



PROTEZIONE CIVILE
 Presidenza del Consiglio dei Ministri
 Dipartimento della Protezione Civile



Regione Emilia Romagna



Unione Rubicone e Mare



CONFERENZA DELLE REGIONI E
 DELLE PROVINCE AUTONOME

Attuazione dell'articolo 11 dalla legge 24 giugno 2009, n.77

MICROZONAZIONE SISMICA

di livello 2 e locali approfondimenti di livello 3

Regione Emilia-Romagna

Unione Rubicone e Mare

(Gatteo, San Mauro Pascoli e Savignano sul Rubicone)



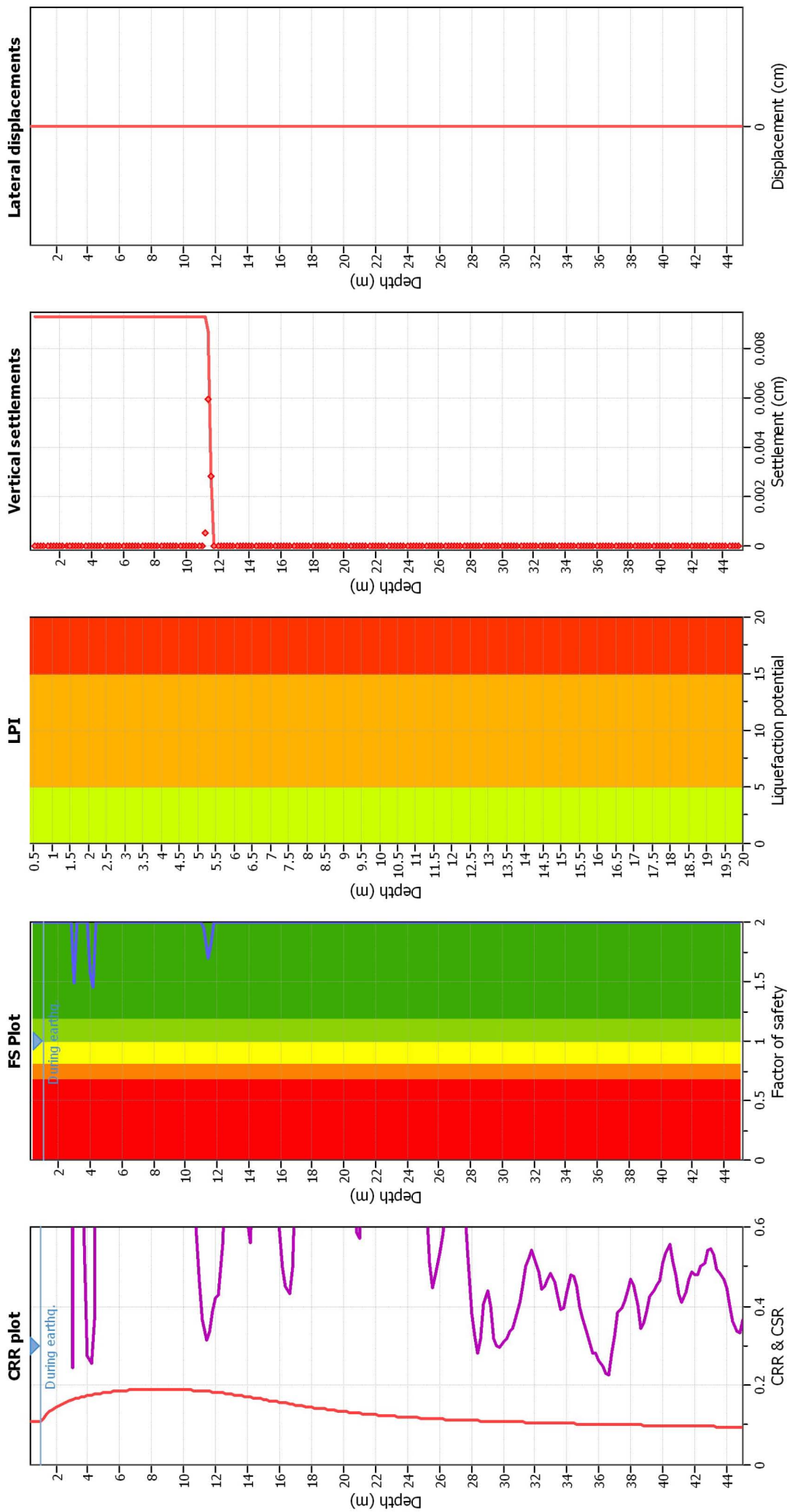
Allegato 4 – Rapporti di calcolo per la stima degli indici di liquefazione

Regione	Soggetto realizzatore	Data
Emilia-Romagna	Studio di geologia Gabriele Tarabusi	27/10/2014

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Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on Ic value	K_{σ} applied:	No
Earthquake magnitude M_w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.28	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Limit depth:	N/A
Depth to water table (earthq.):	1.00 m		
Average results interval:	3		
Ic cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		

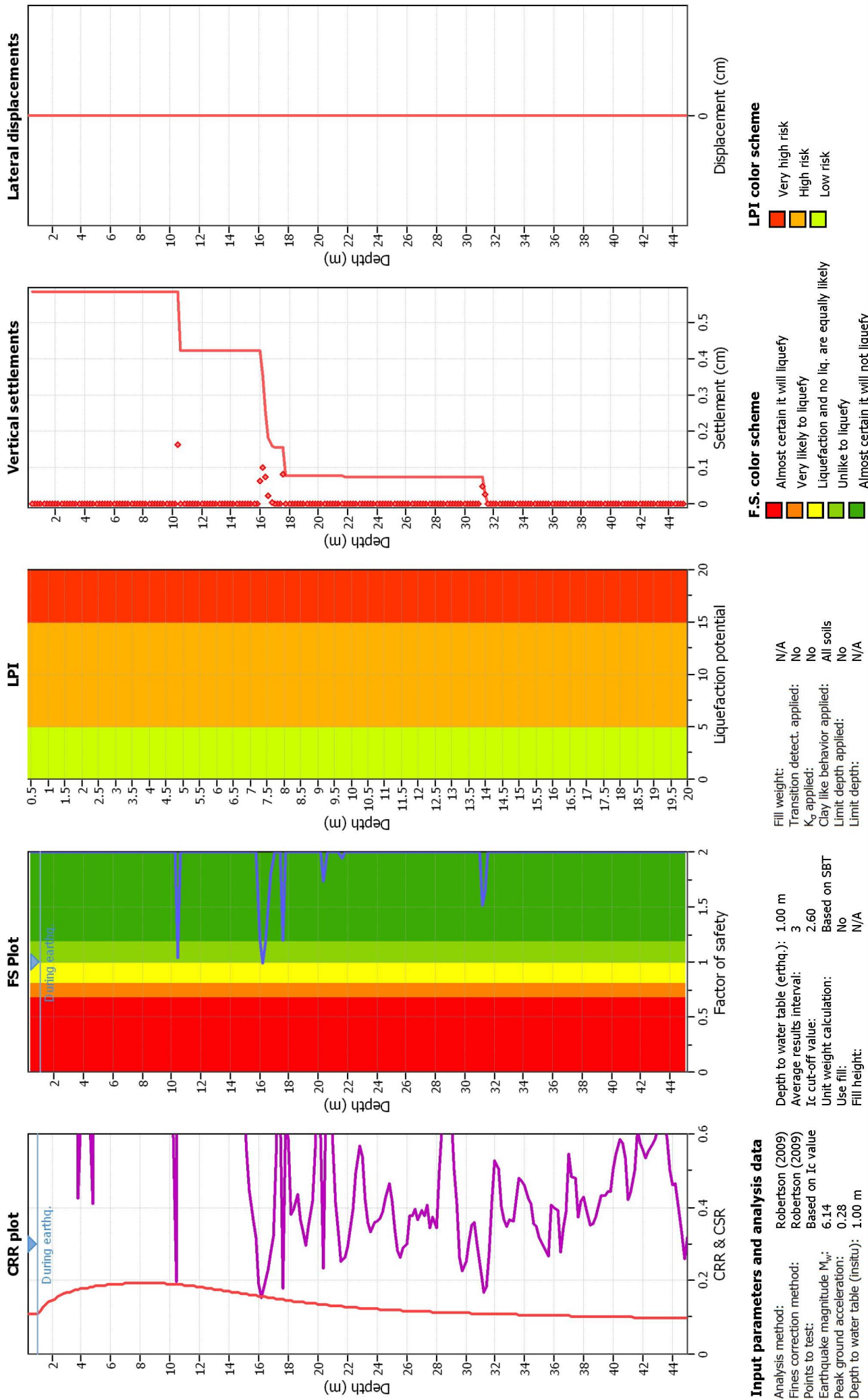
F.S. color scheme

Red	Almost certain it will liquefy
Yellow	Very likely to liquefy
Green	Liquefaction and no liq. are equally likely
Blue	Unlikely to liquefy
Dark Blue	Almost certain it will not liquefy

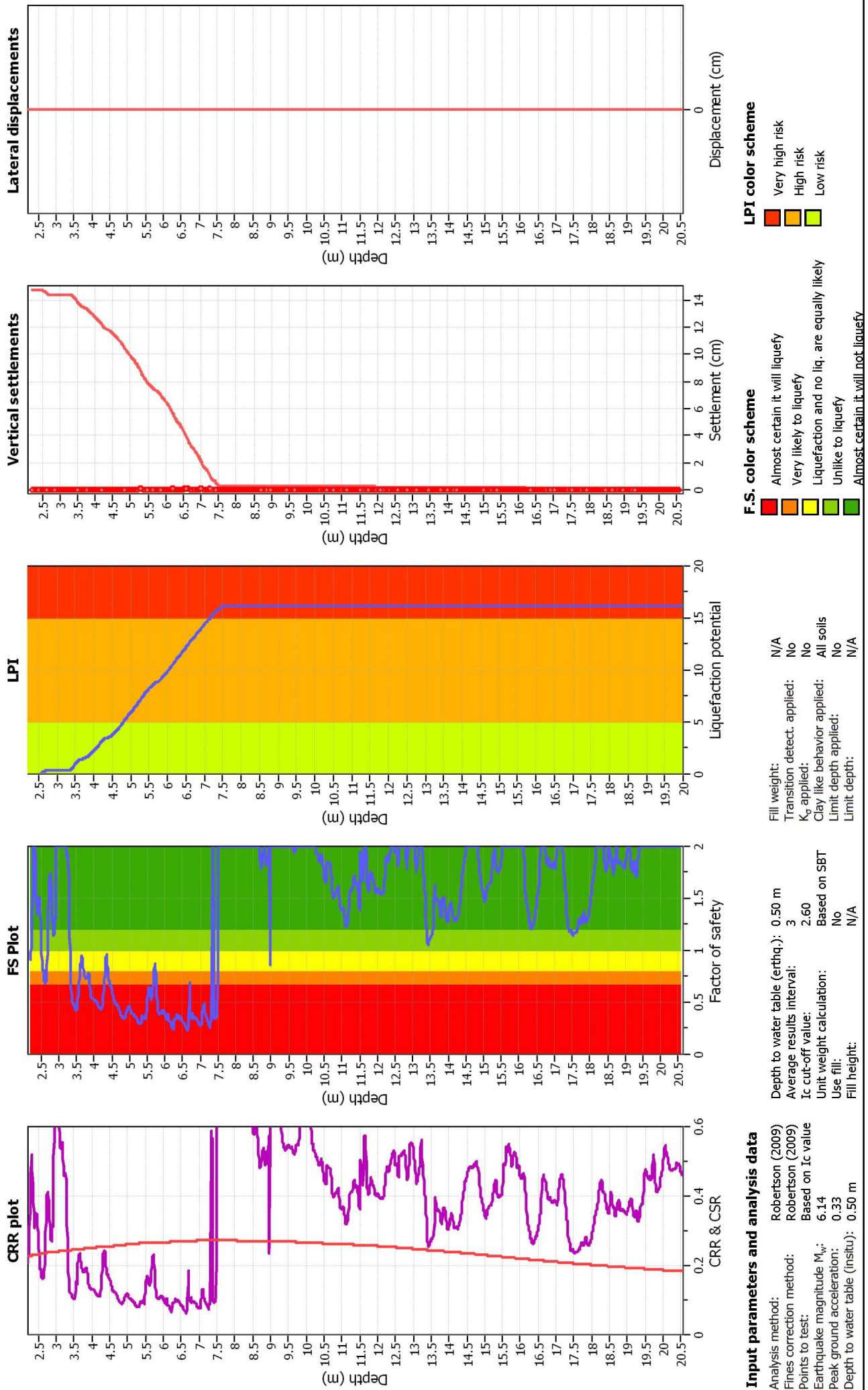
LPI color scheme

Red	Very high risk
Yellow	High risk
Green	Low risk

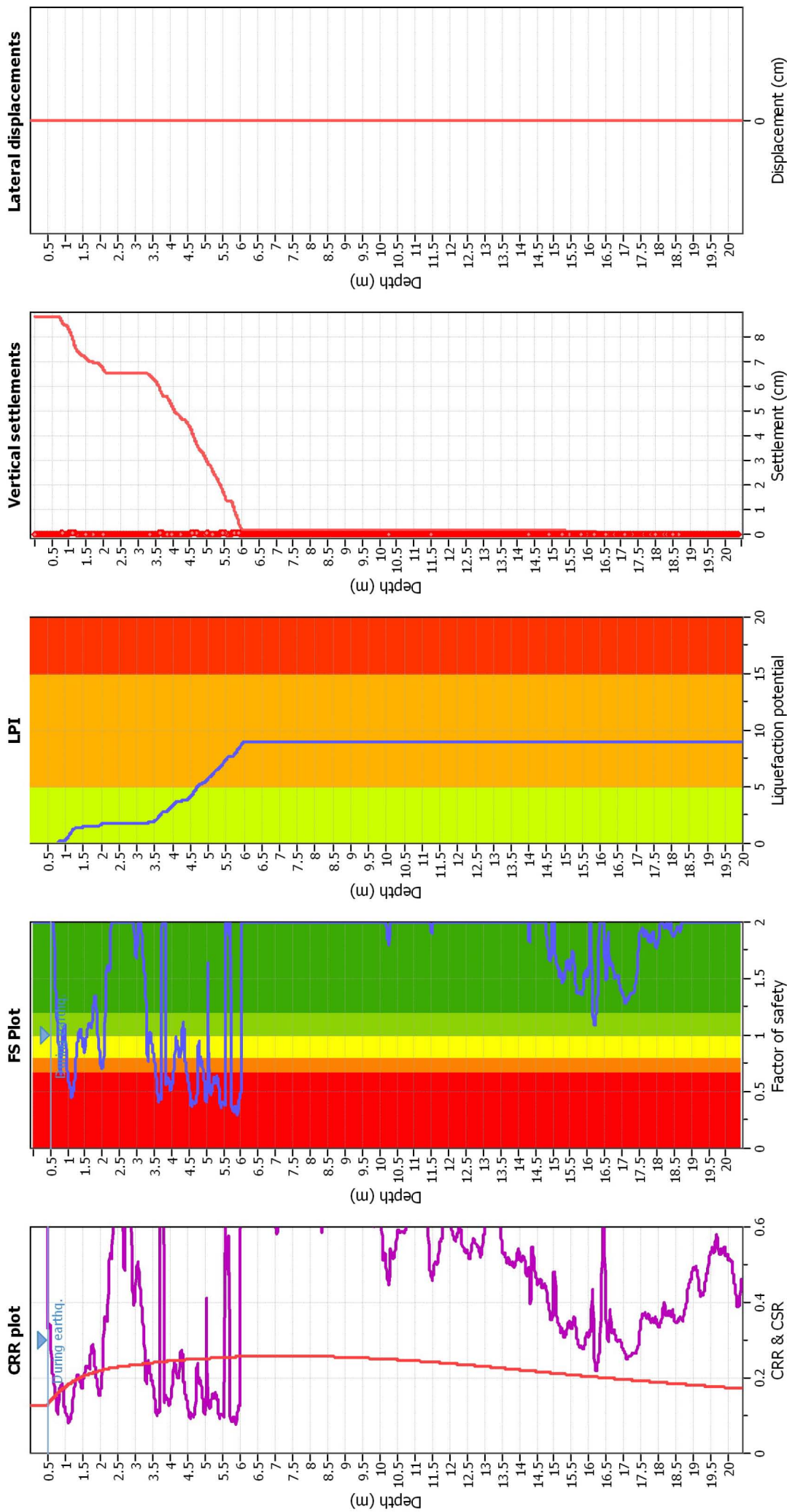
Liquefaction analysis overall plots



Liquefaction analysis overall plots



Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w: 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m

Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 I_c cut-off value: Based on SBT
 Unit weight calculation: No
 Use fill: N/A
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_σ applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

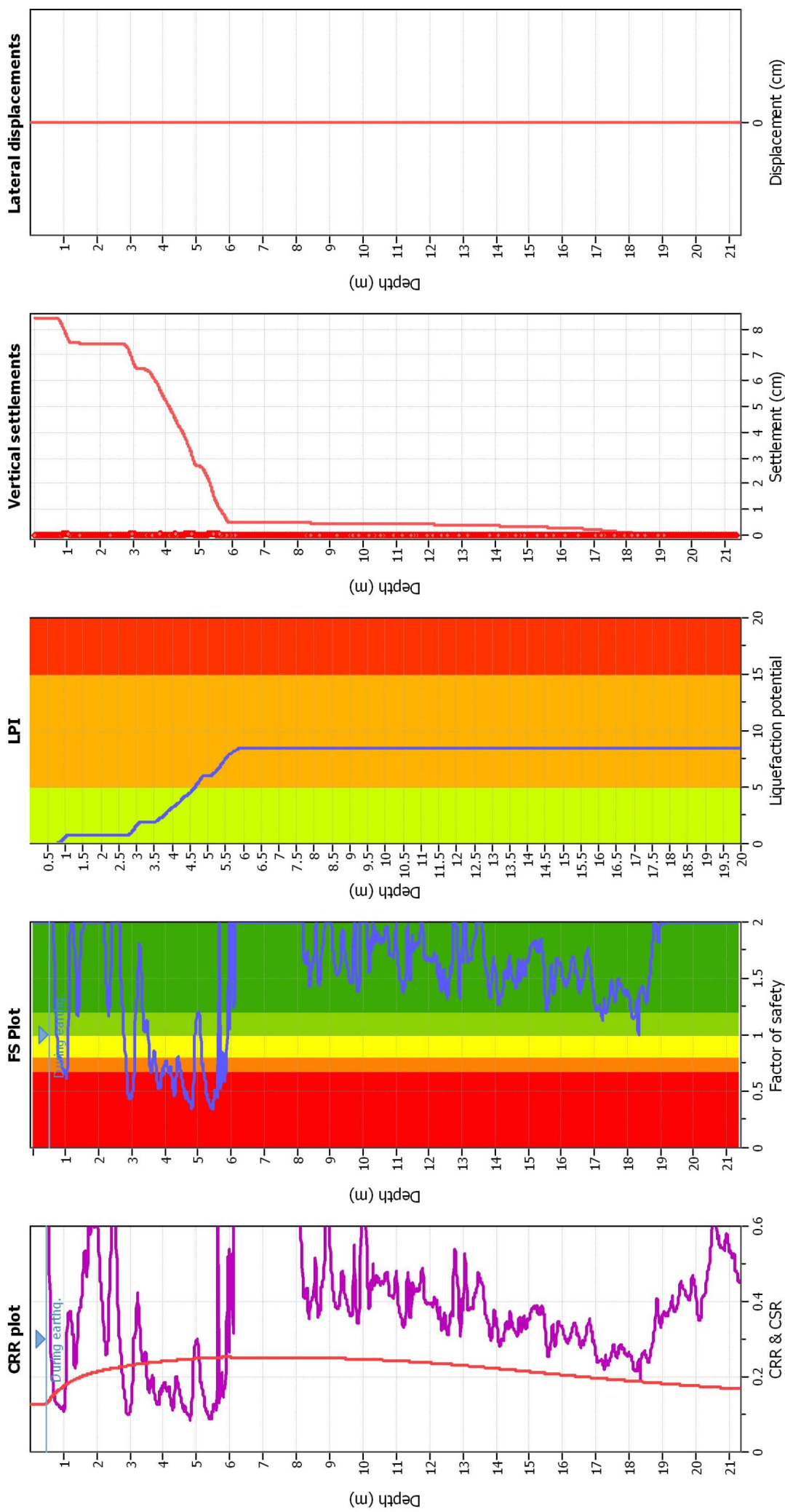
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w: 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m

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 Average results interval: 3
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 Limit depth applied: No
 Limit depth: N/A

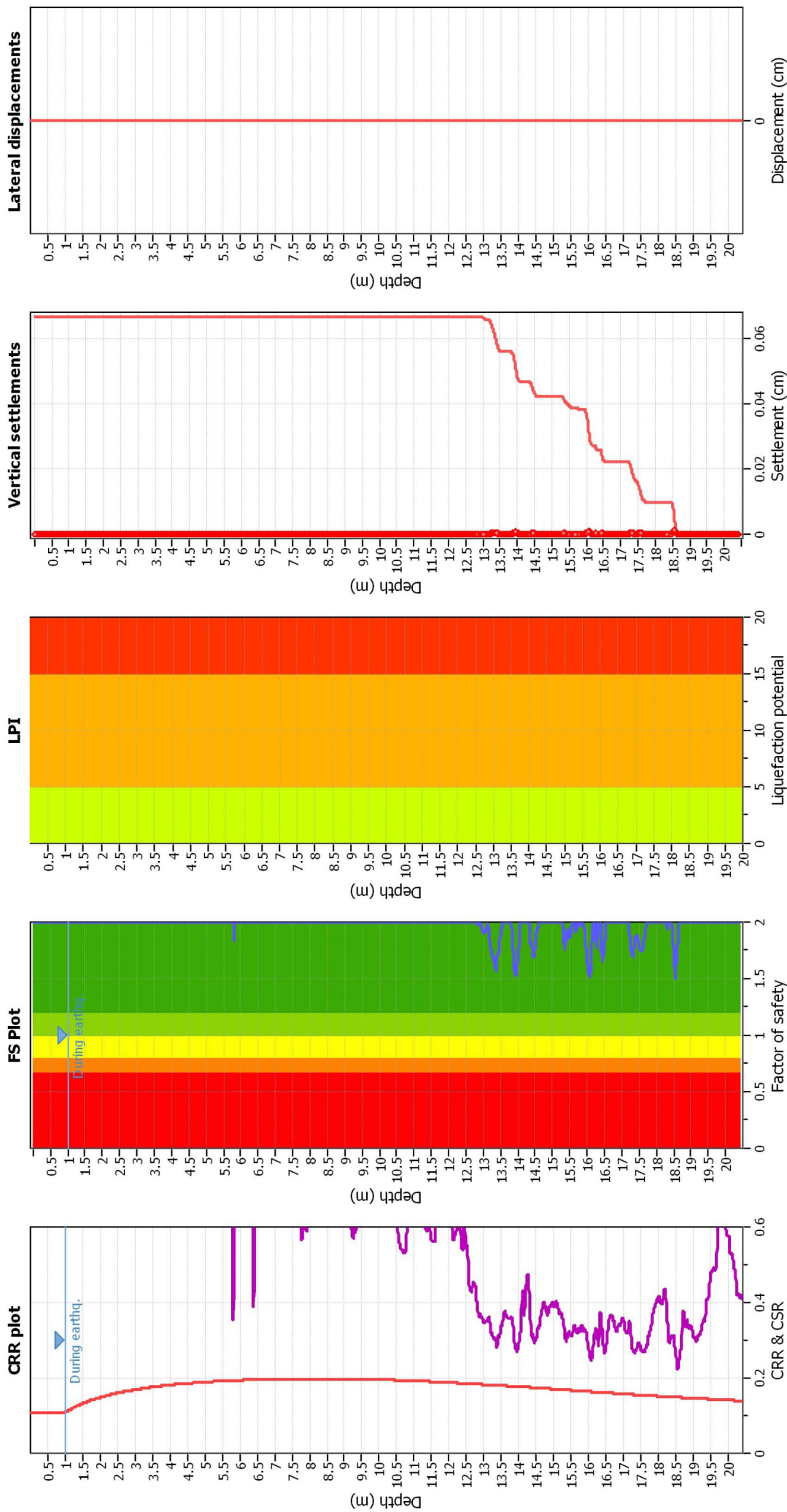
F.S. color scheme

■ Almost certain it will liquefy
■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlikely to liquefy
■ Almost certain it will not liquefy

LPI color scheme

■ Very high risk
■ High risk
■ Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (earthq.):	1.00 m
Fines correction method:	Robertson (2009)	Average results interval:	3
Points to test:	Based on Ic value	Ic cut-off value:	2.60
Earthquake magnitude M_w :	6.14	Unit weight calculation:	Based on SBT
Peak ground acceleration:	0.28	Use fill:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A
		Transition detect. applied:	N/A
		K_{σ} applied:	No
		Clay like behavior applied:	All soils
		Limit depth applied:	No
		Limit depth:	N/A

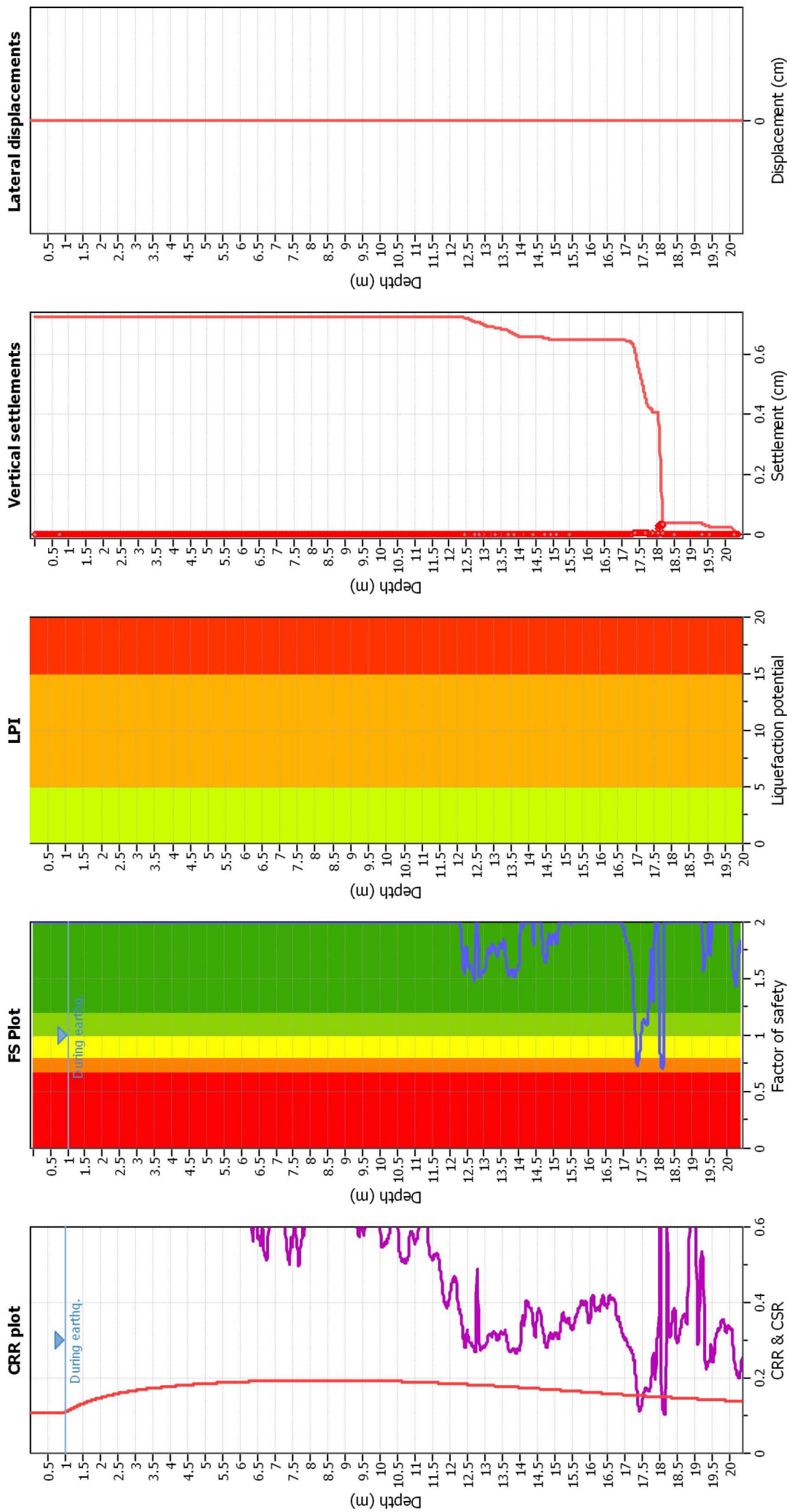
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Light Green	Unlike to liquefy
Dark Green	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Light Green	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 6.14
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 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 Ic cut-off value: Based on SBT
 Unit weight calculation: No
 Use fill: N/A
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

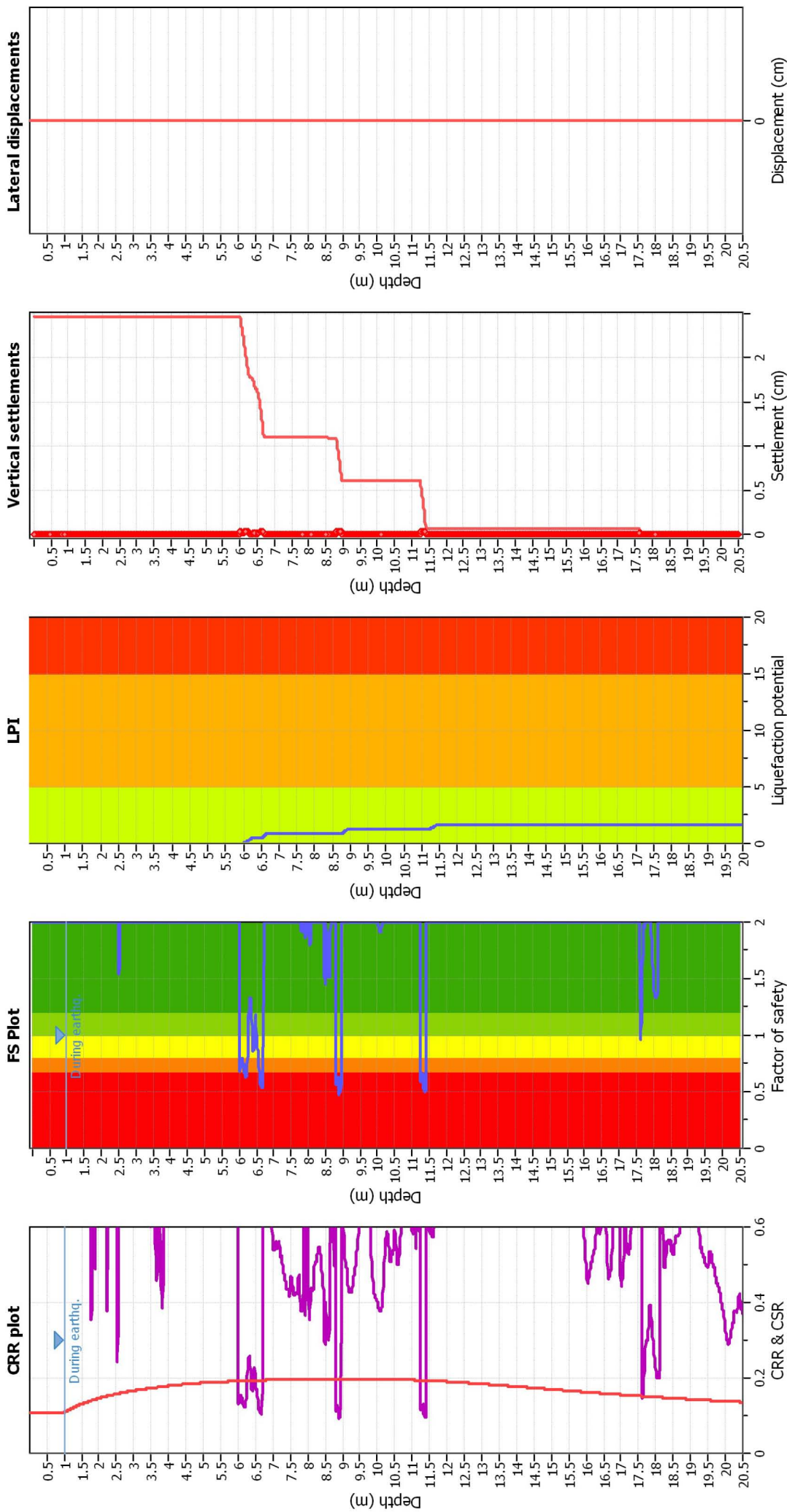
F.S. color scheme

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- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (earthq.):	1.00 m
Fines correction method:	Robertson (2009)	Average results interval:	3
Points to test:	Based on Ic value	Ic cut-off value:	2.60
Earthquake magnitude M_w :	6.14	Unit weight calculation:	Based on SBT
Peak ground acceleration:	0.28	Use fill:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A
Fill weight:	N/A	Transition detect. applied:	No
Transition detect. applied:	No	K_{σ} applied:	No
K_{σ} applied:	No	Clay like behavior applied:	All soils
Clay like behavior applied:	All soils	Limit depth applied:	No
Limit depth applied:	No	Limit depth:	N/A

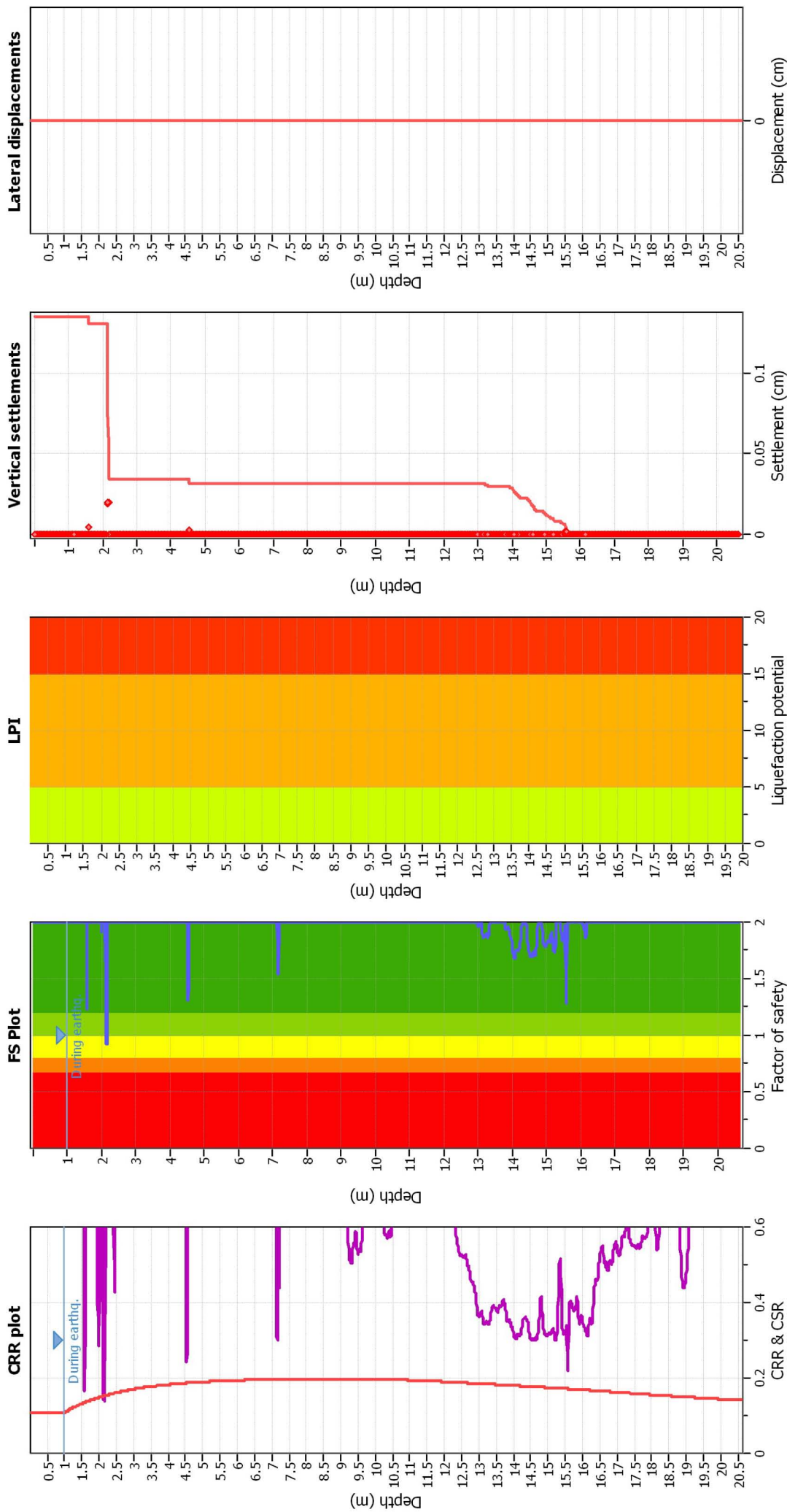
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Liquefaction analysis overall plots



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Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

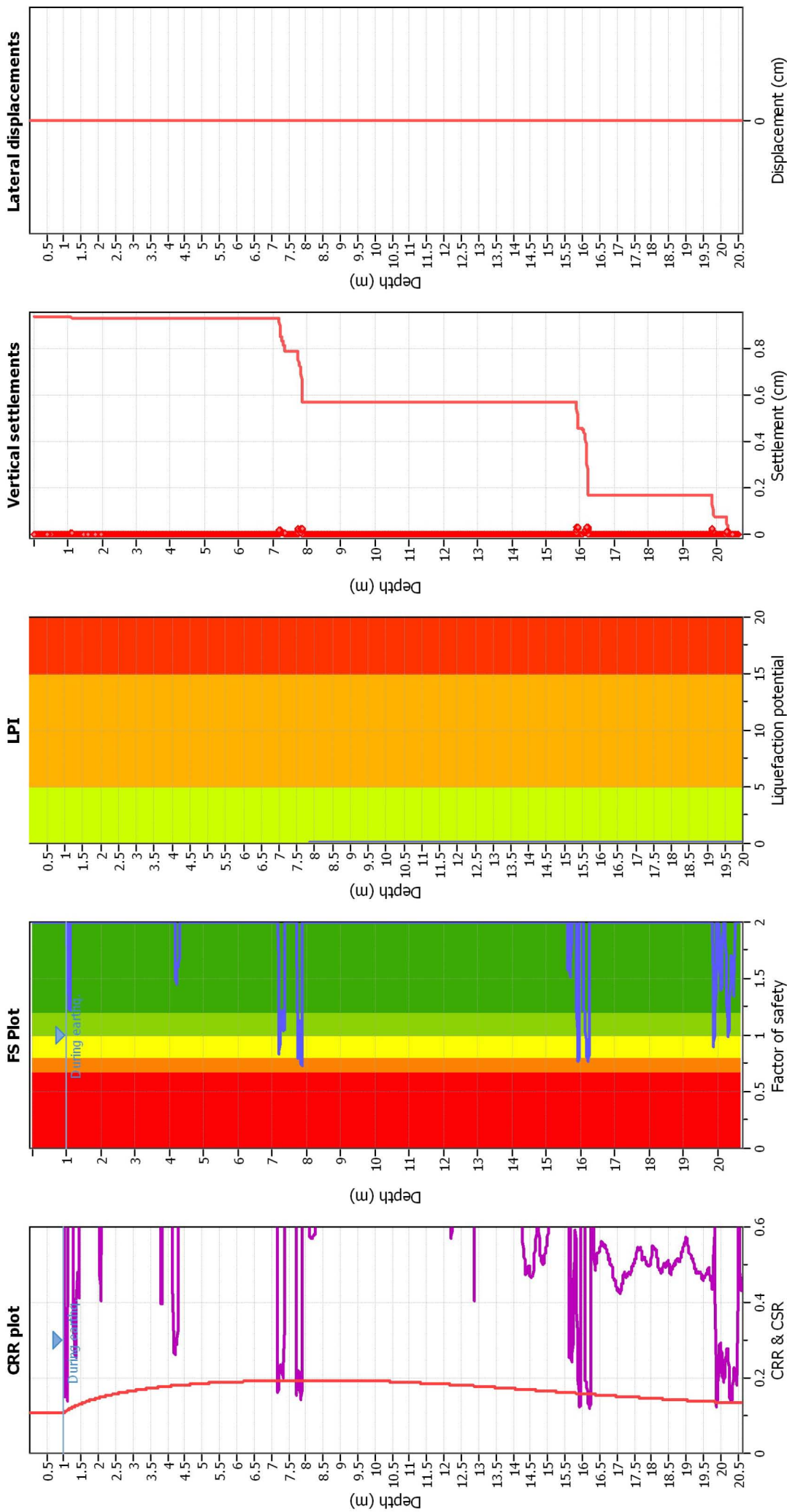
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Liquefaction analysis overall plots



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 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

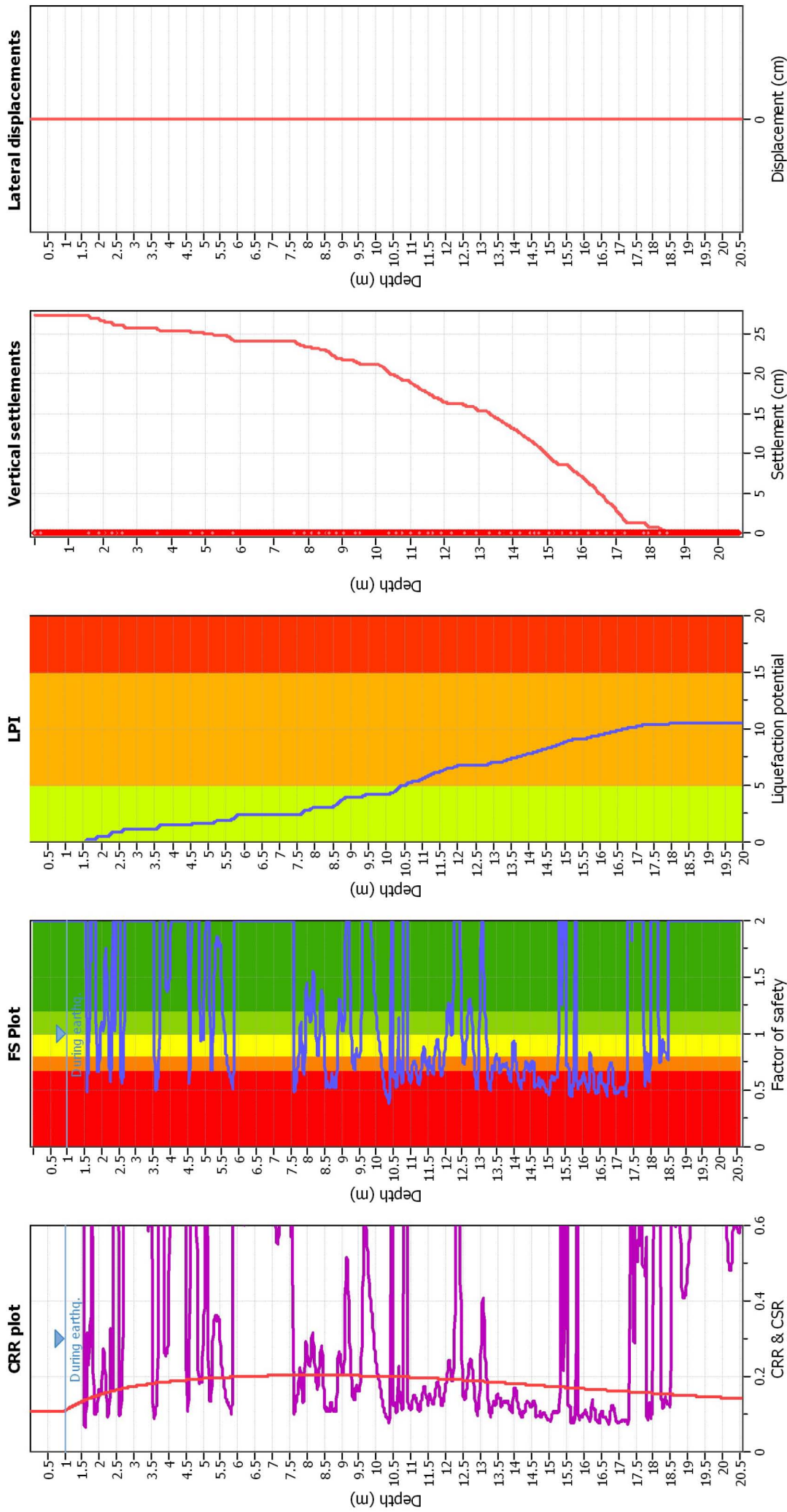
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Liquefaction analysis overall plots



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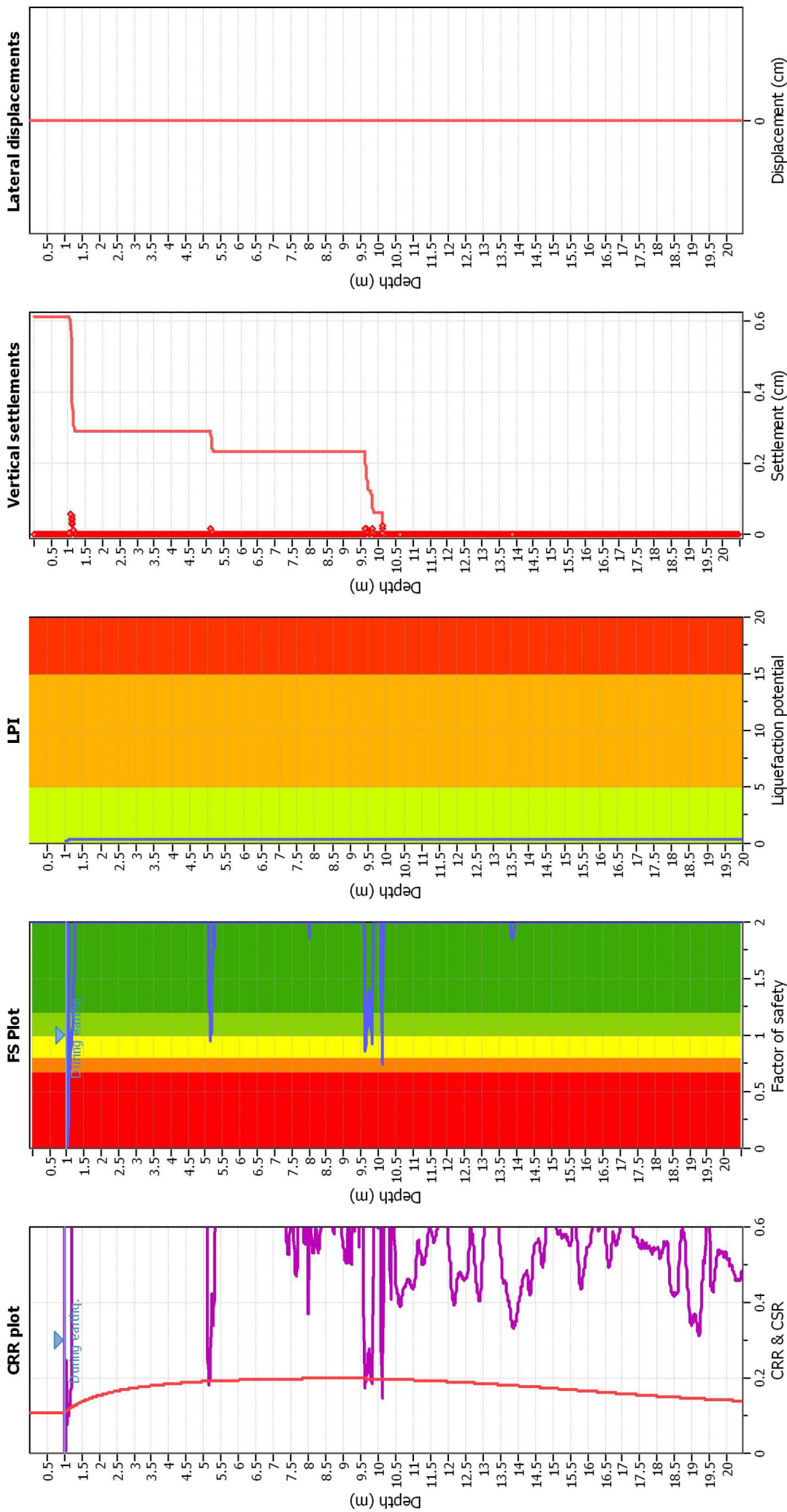
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Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.00 m
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Points to test:	Based on Ic value	Ic cut-off value:	2.60
Earthquake magnitude M_w :	6.14	Unit weight calculation:	Based on SBT
Peak ground acceleration:	0.28	Use fill:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A
		Transition detect. applied:	N/A
		K_{σ} applied:	No
		Clay like behavior applied:	All soils
		Limit depth applied:	No
		Limit depth:	N/A

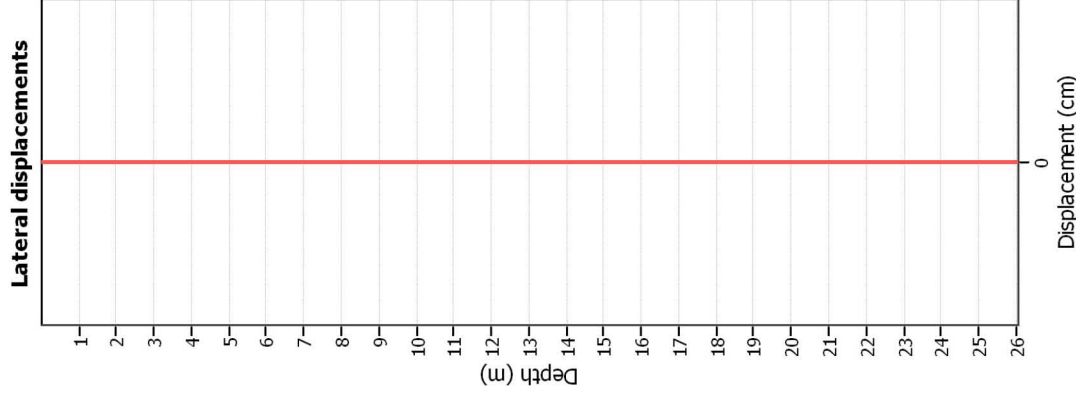
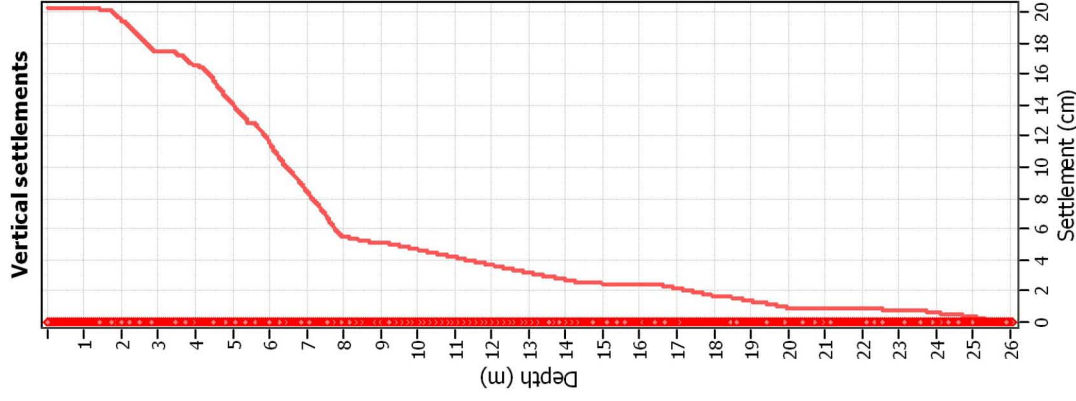
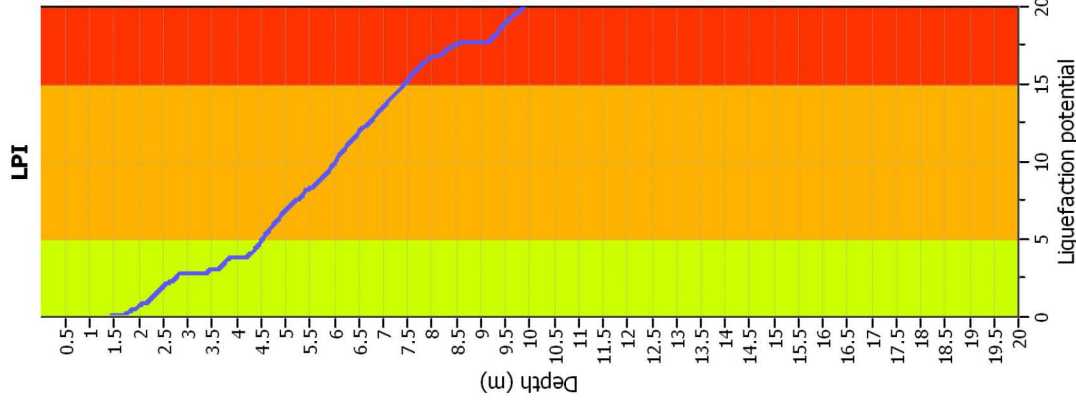
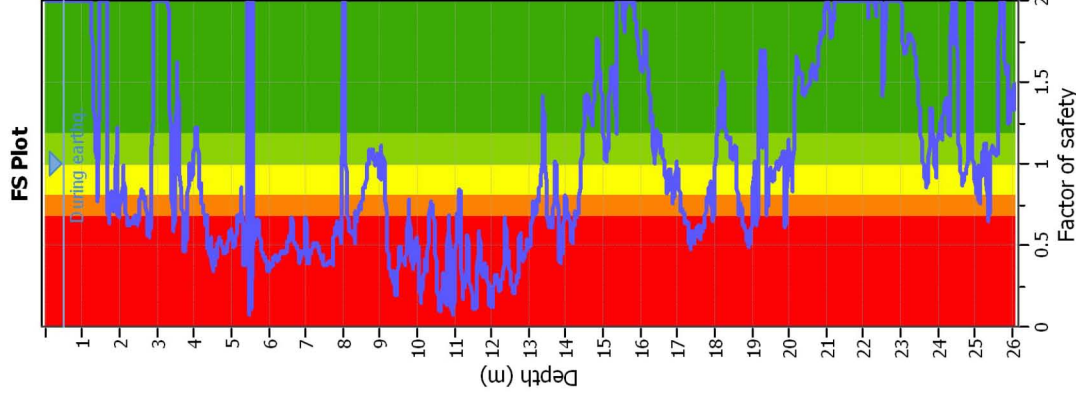
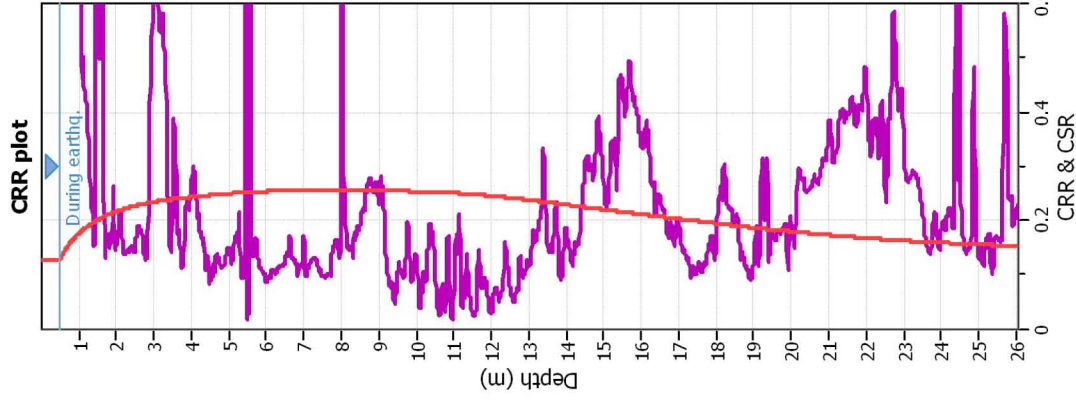
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Green	Unlikely to liquefy
Dark Green	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m
 Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 I_c cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A
 Factor of safety: N/A
 No
 No
 No
 No
 N/A

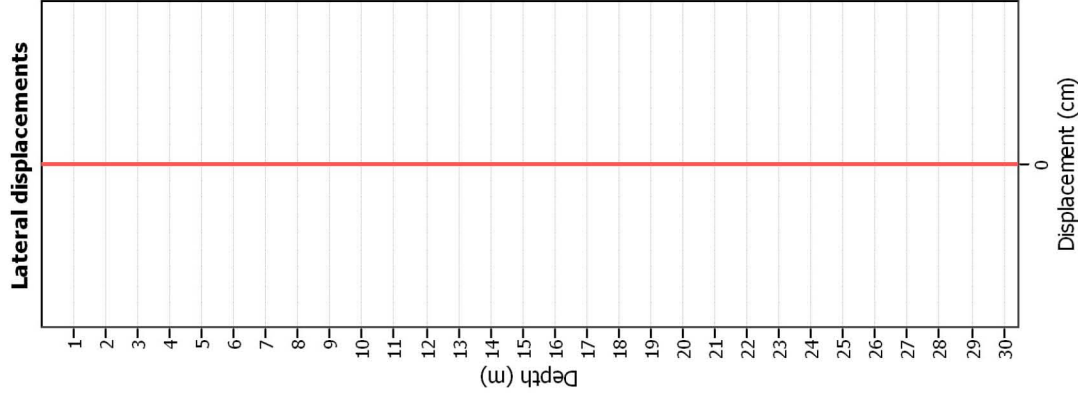
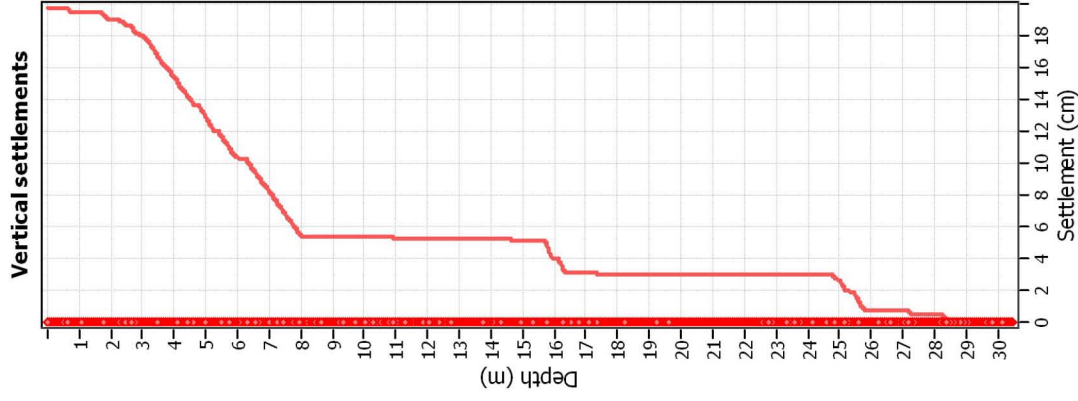
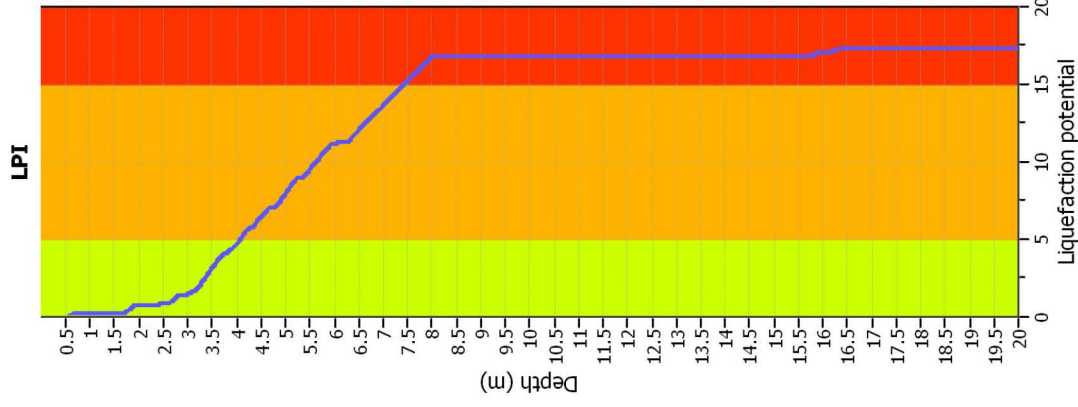
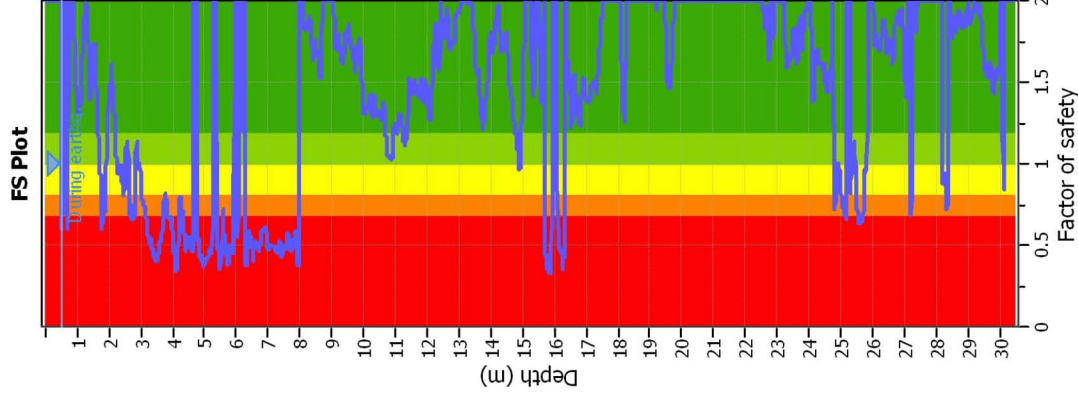
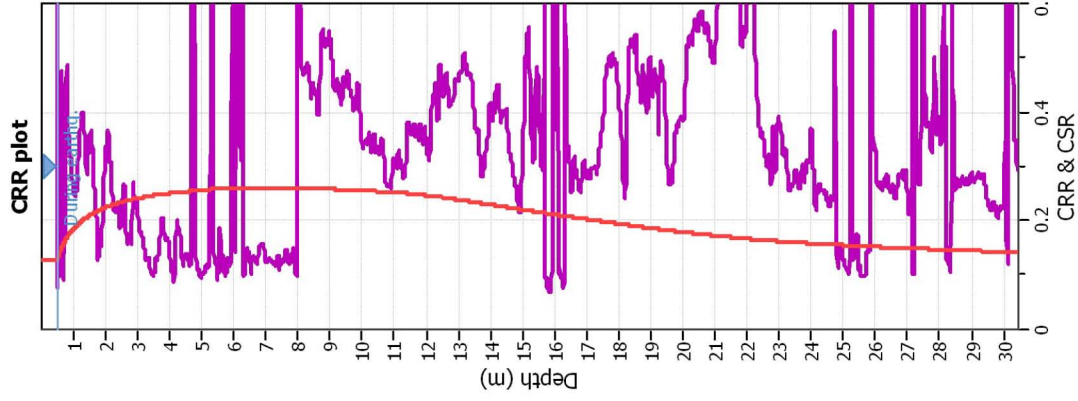
F.S. color scheme

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■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlikely to liquefy
■ Almost certain it will not liquefy

LPI color scheme

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■ High risk
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Liquefaction analysis overall plots



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 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A
 Factor of safety: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

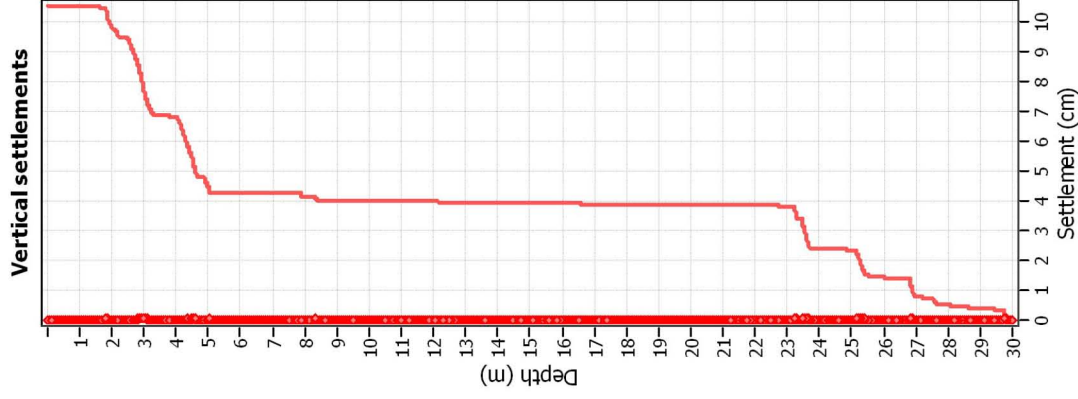
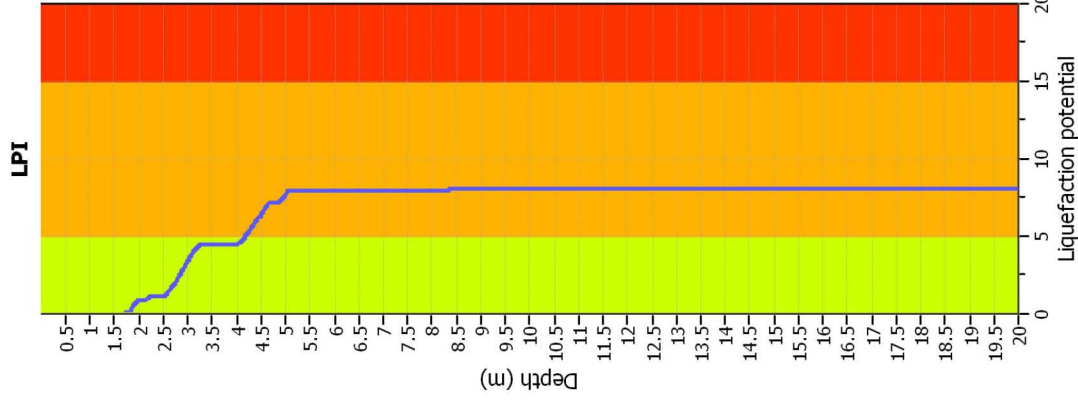
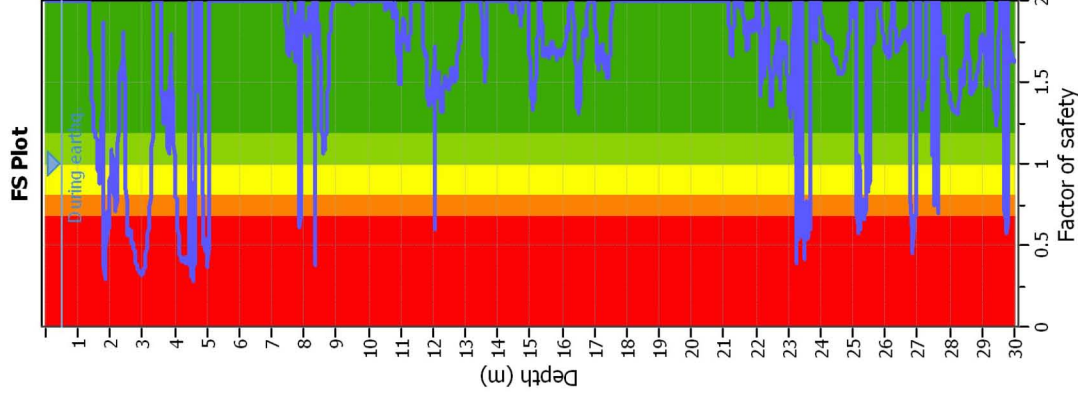
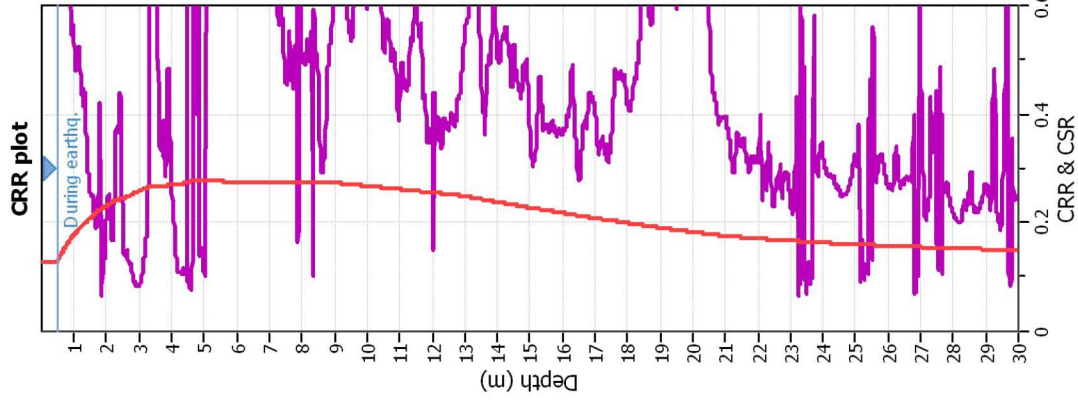
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 Transition detect. applied: No
 K_σ applied: No
 Clay like behavior applied: All soils
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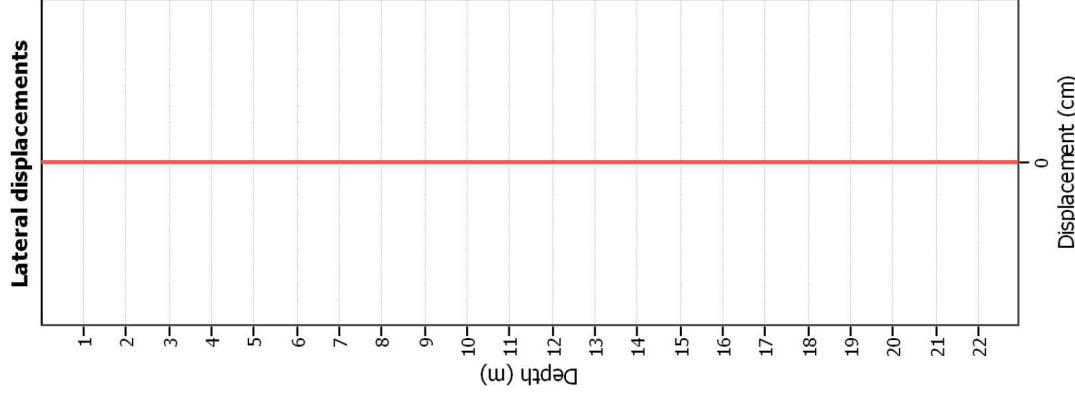
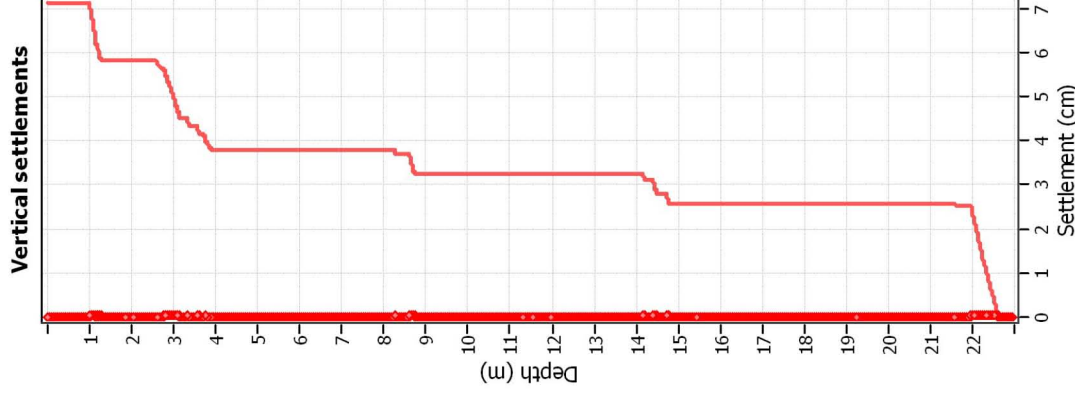
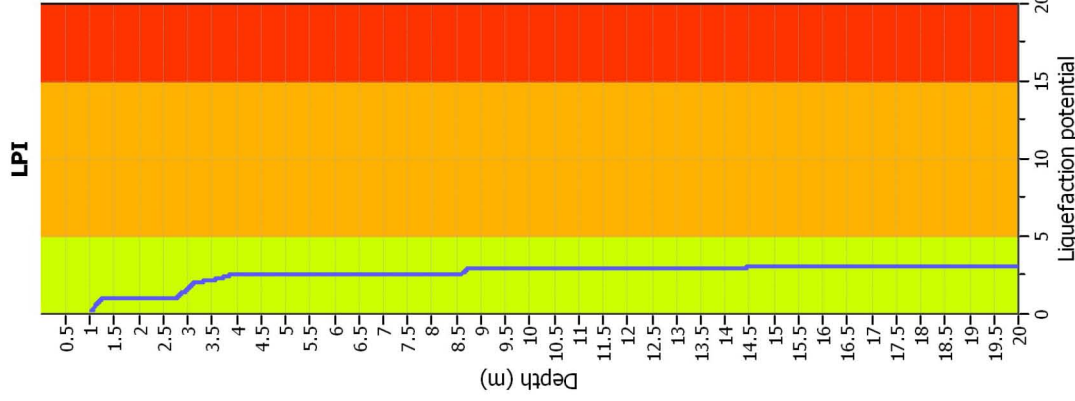
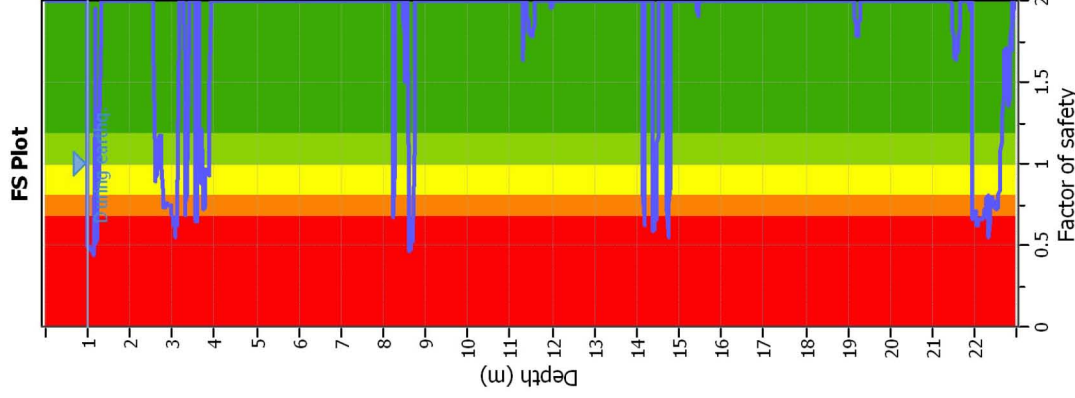
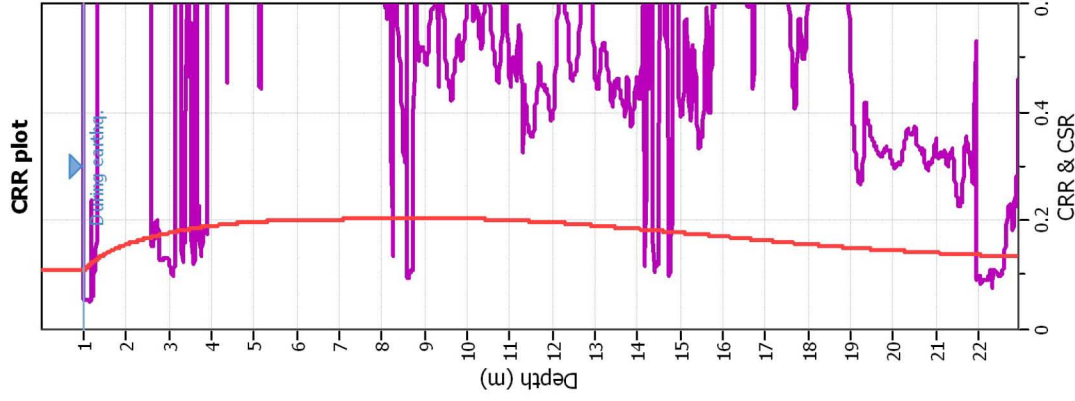
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LPI color scheme

Very high risk
 High risk
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Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m
 Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 I_c cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A
 Factor of safety: N/A
 Transition detect. applied: No
 K_σ applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

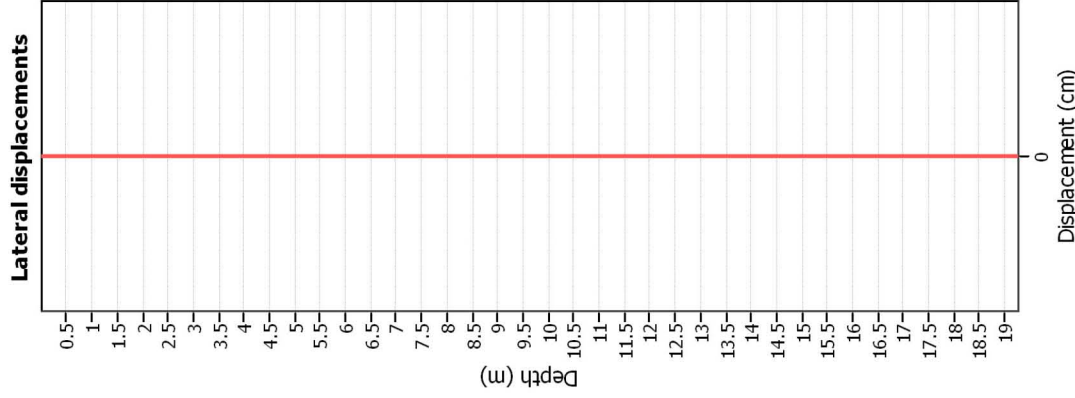
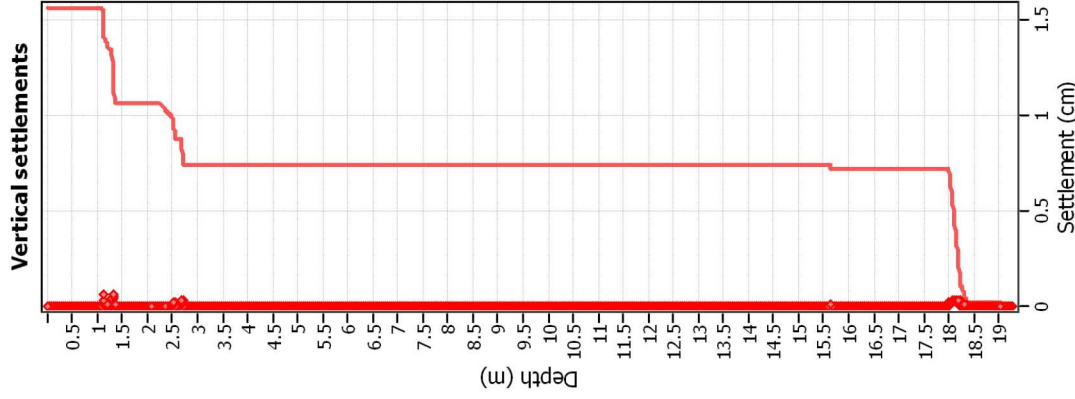
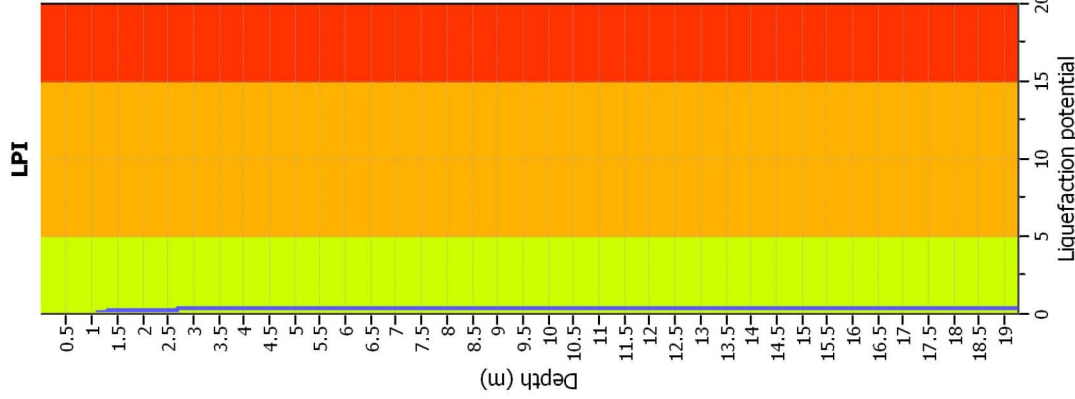
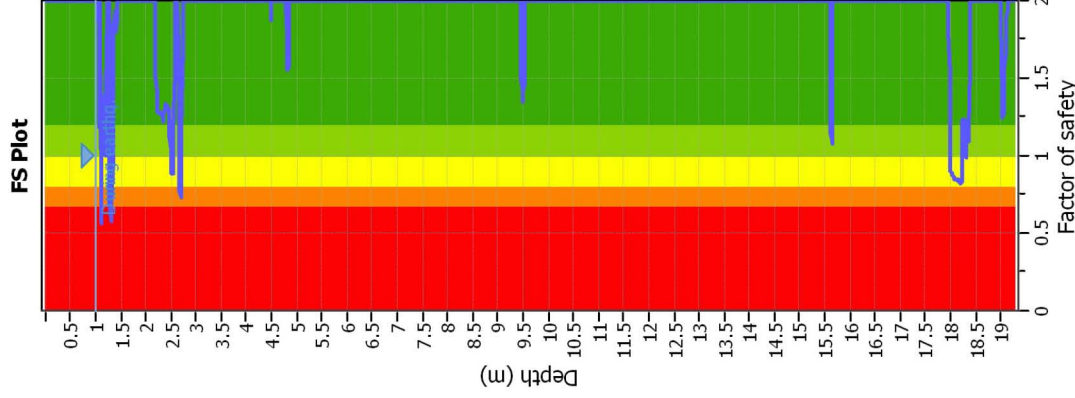
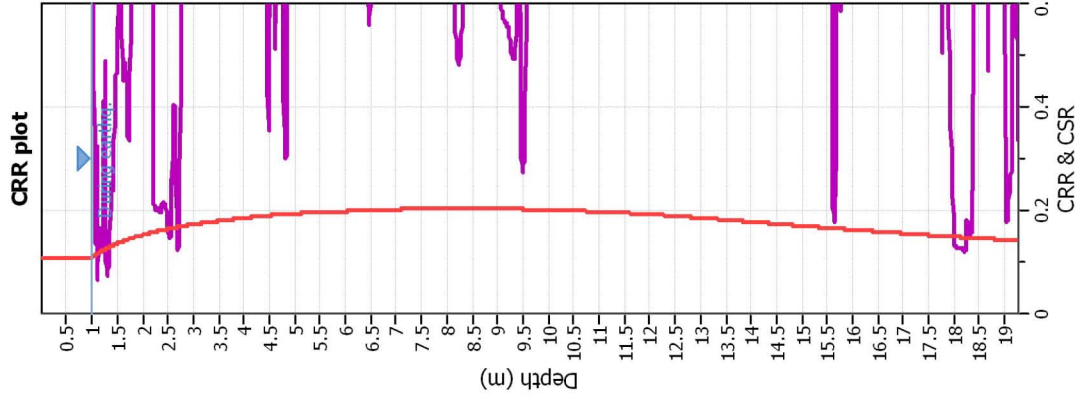
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 I_c cut-off value: Based on SBT
 Unit weight calculation: No
 Use fill: N/A
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

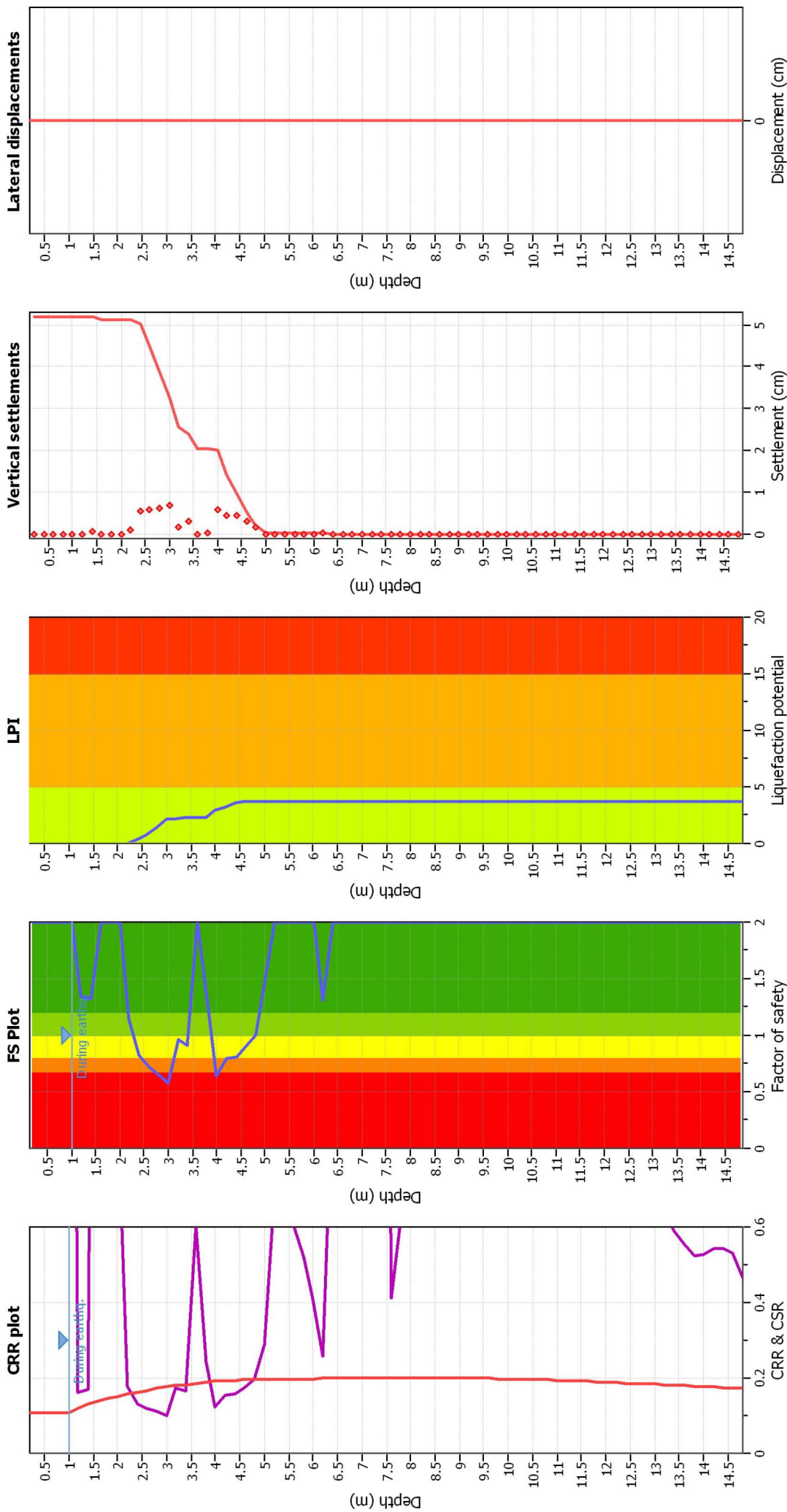
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 I_c cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

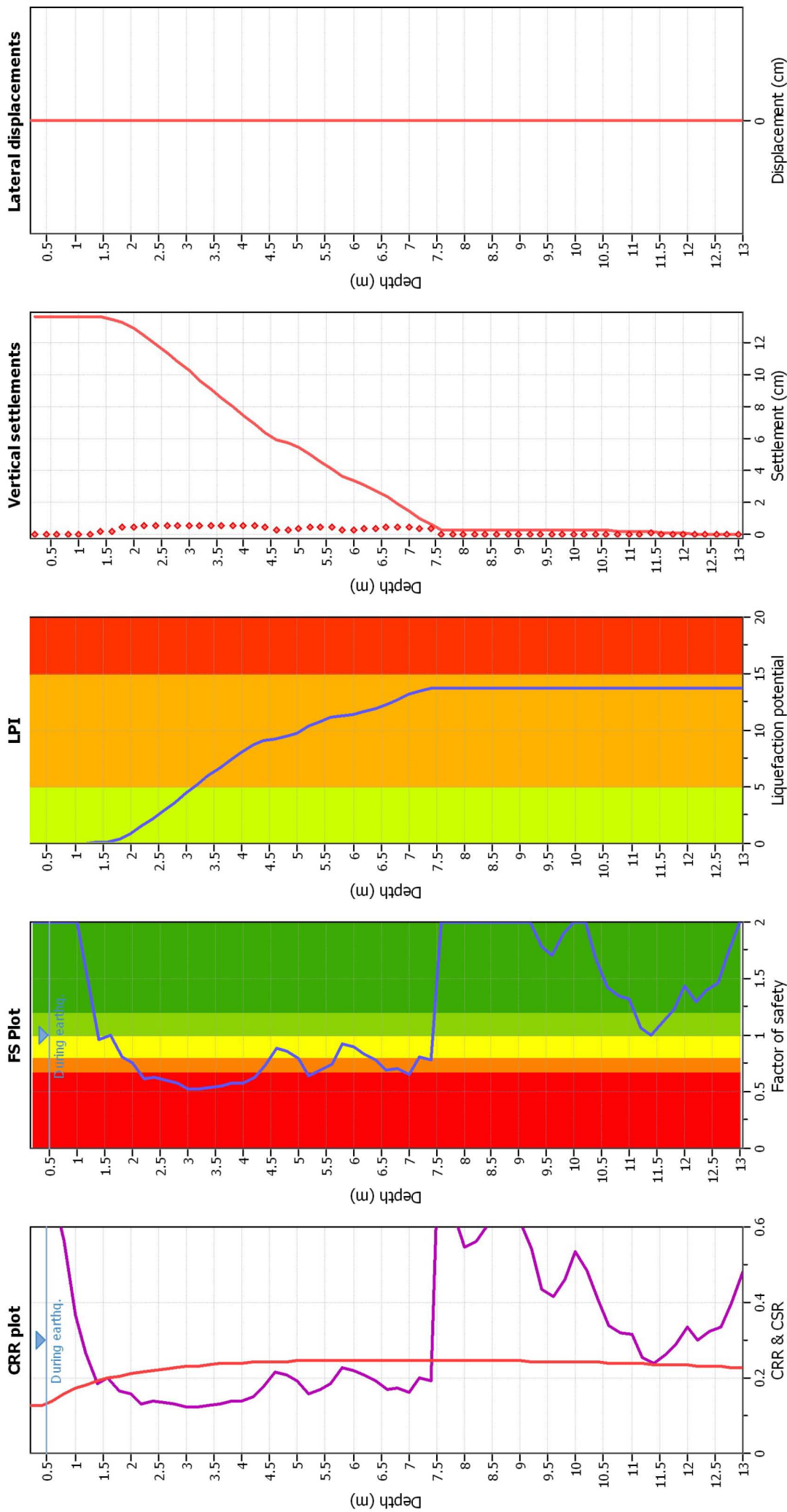
F.S. color scheme

■ Almost certain it will liquefy
■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlikely to liquefy
■ Almost certain it will not liquefy

LPI color scheme

■ Very high risk
■ High risk
■ Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m

Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 I_c cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

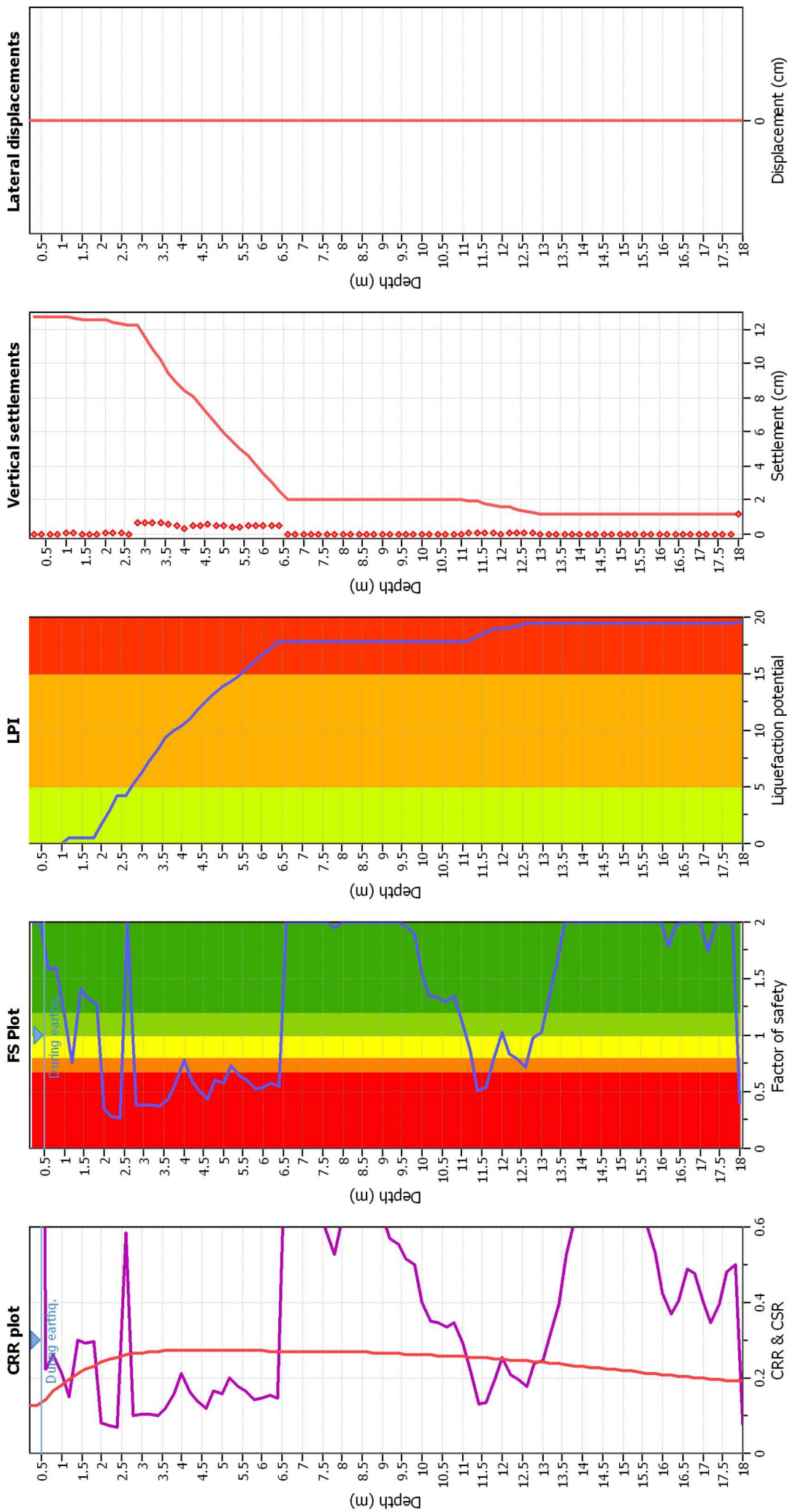
F.S. color scheme

■ Almost certain it will liquefy
■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlikely to liquefy
■ Almost certain it will not liquefy

LPI color scheme

■ Very high risk
■ High risk
■ Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w: 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m
 Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 Ic cut-off value: Based on SBT
 Unit weight calculation: No
 Use fill: N/A
 Fill height: N/A
 Factor of safety: N/A

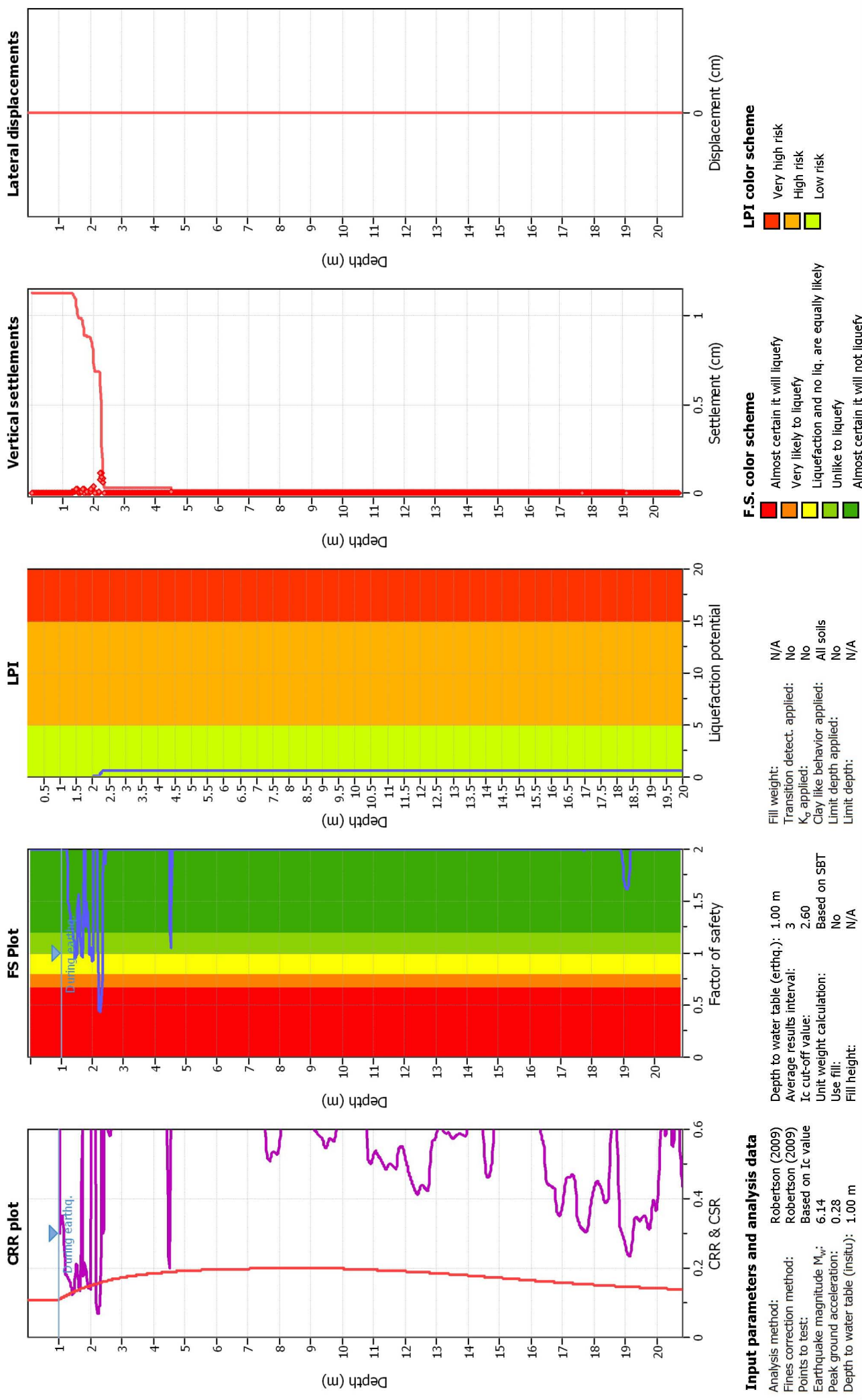
F.S. color scheme

Almost certain it will liquefy
 Very likely to liquefy
 Liquefaction and no liq. are equally likely
 Unlikely to liquefy
 Almost certain it will not liquefy

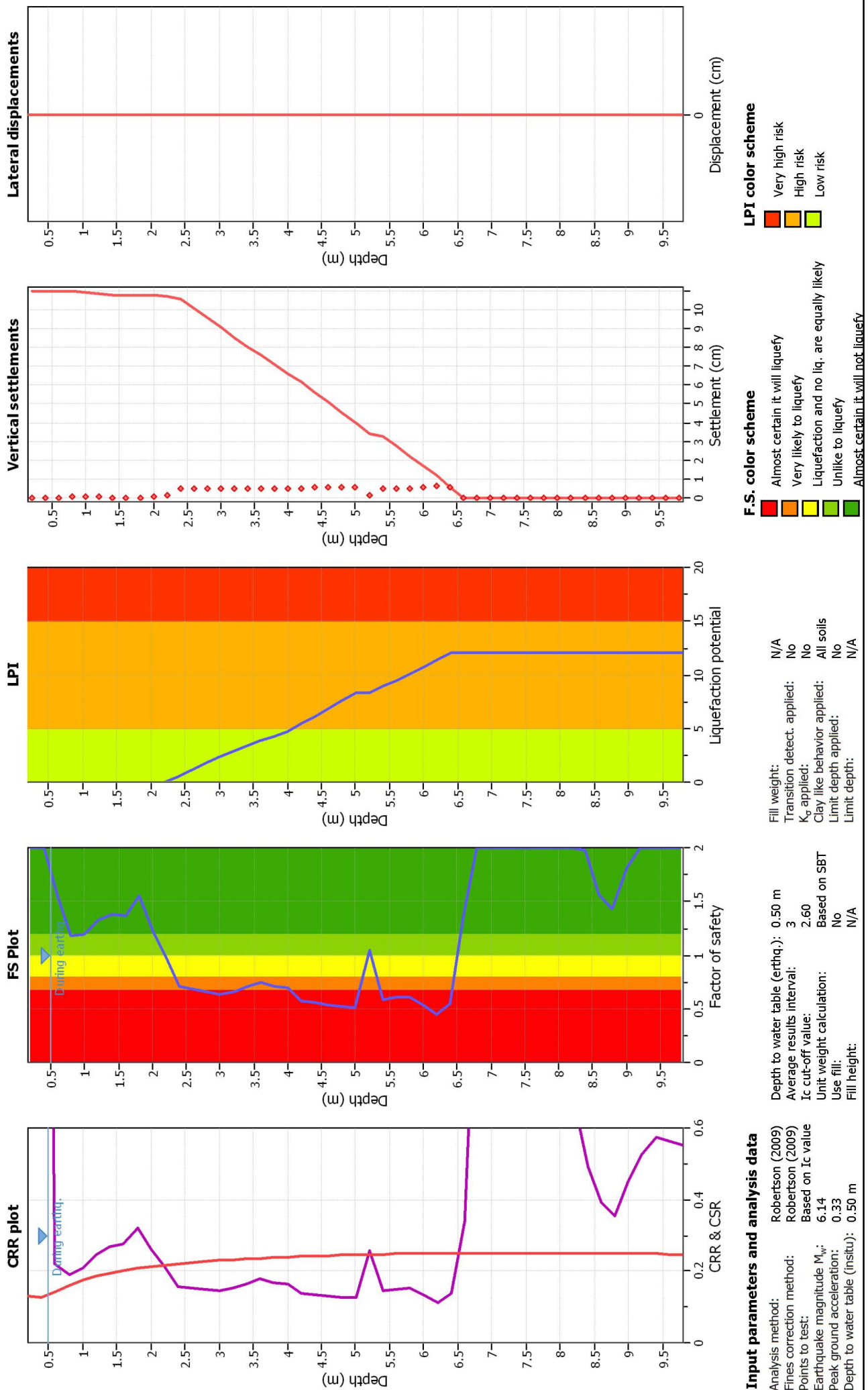
LPI color scheme

Very high risk
 High risk
 Low risk

Liquefaction analysis overall plots



Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)
Fines correction method:	Robertson (2009)
Points to test:	Based on I _c value
Earthquake magnitude M _w :	6.14
Peak ground acceleration:	0.33
Depth to water table (insitu):	0.50 m

Depth to water table (earthq.):	0.50 m
Average results interval:	3
I _c cut-off value:	2.60
Unit weight calculation:	Based on SBT
Use fill:	No
Fill height:	N/A

Fill weight:	N/A
Transition detect. applied:	No
K _σ applied:	No
Clay like behavior applied:	All soils
Limit depth applied:	No
Limit depth:	N/A

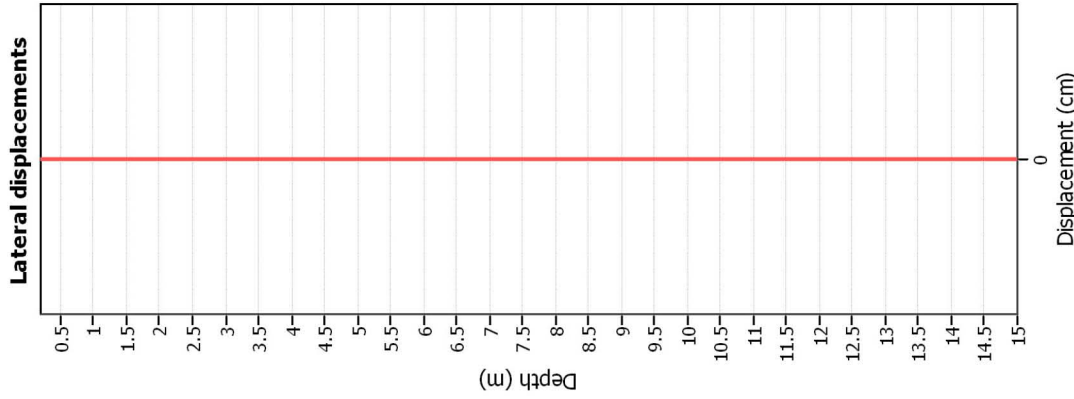
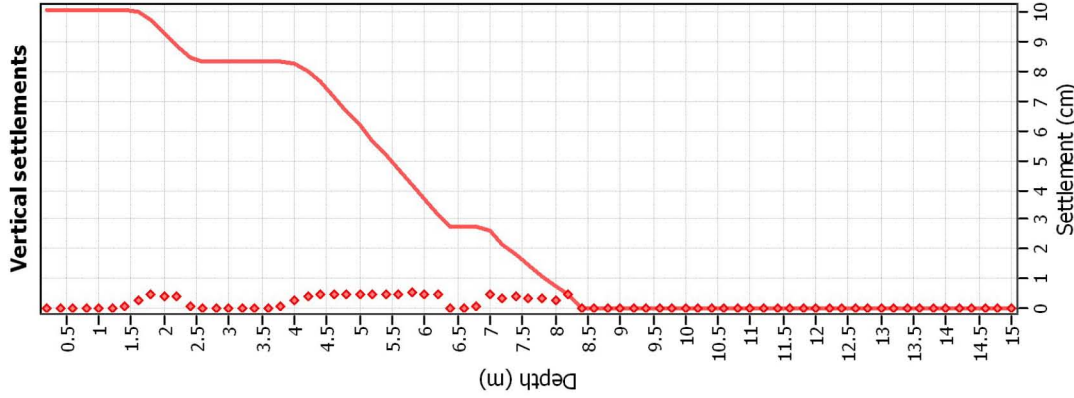
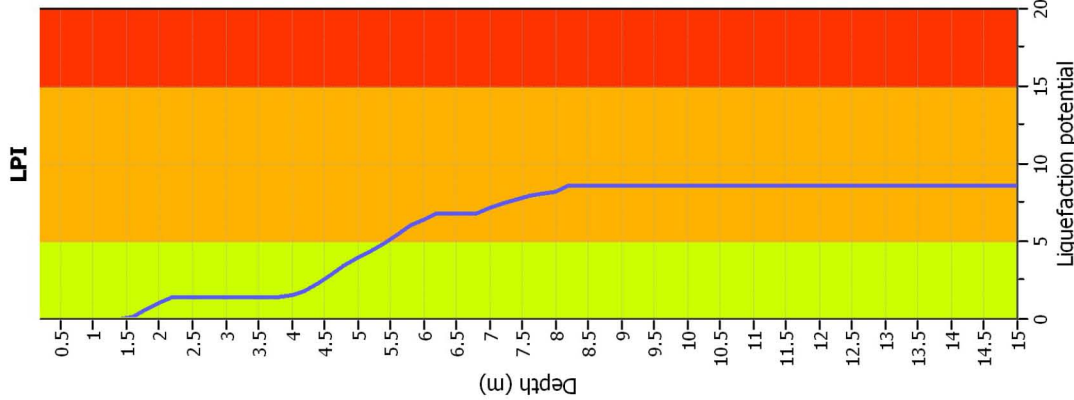
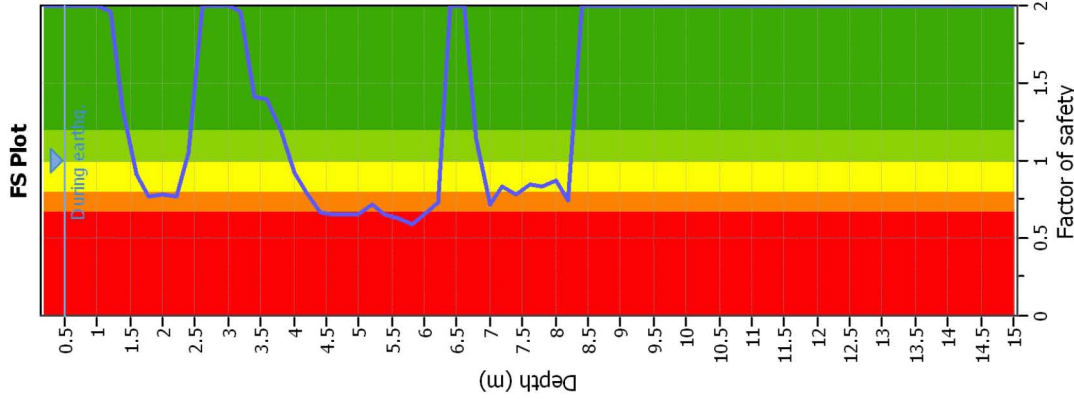
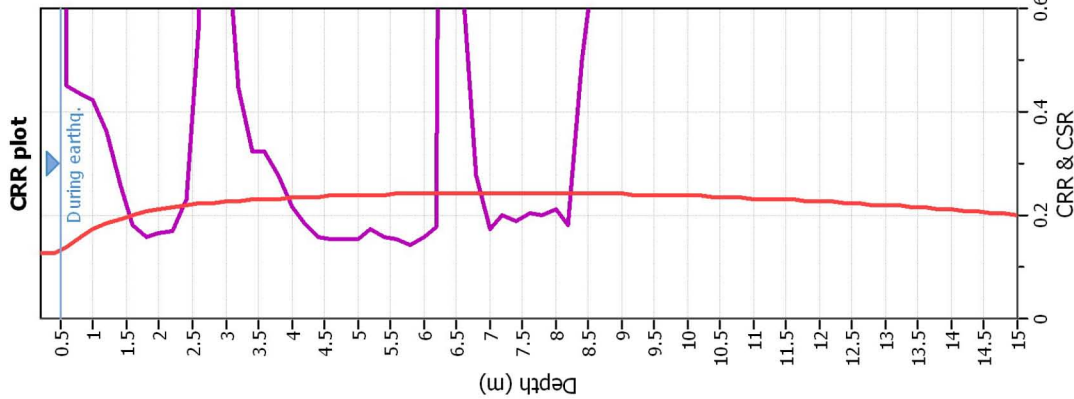
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill height:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on I _c value	K _σ applied:	No
Earthquake magnitude M _w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.33	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Limit depth:	N/A
Depth to water table (earthq.):	0.50 m	Fill weight:	N/A
Average results interval:	3	Transition detect. applied:	No
I _c cut-off value:	2.60	K _σ applied:	No
Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Use fill:	No	Limit depth applied:	No
Fill height:	N/A	Limit depth:	N/A

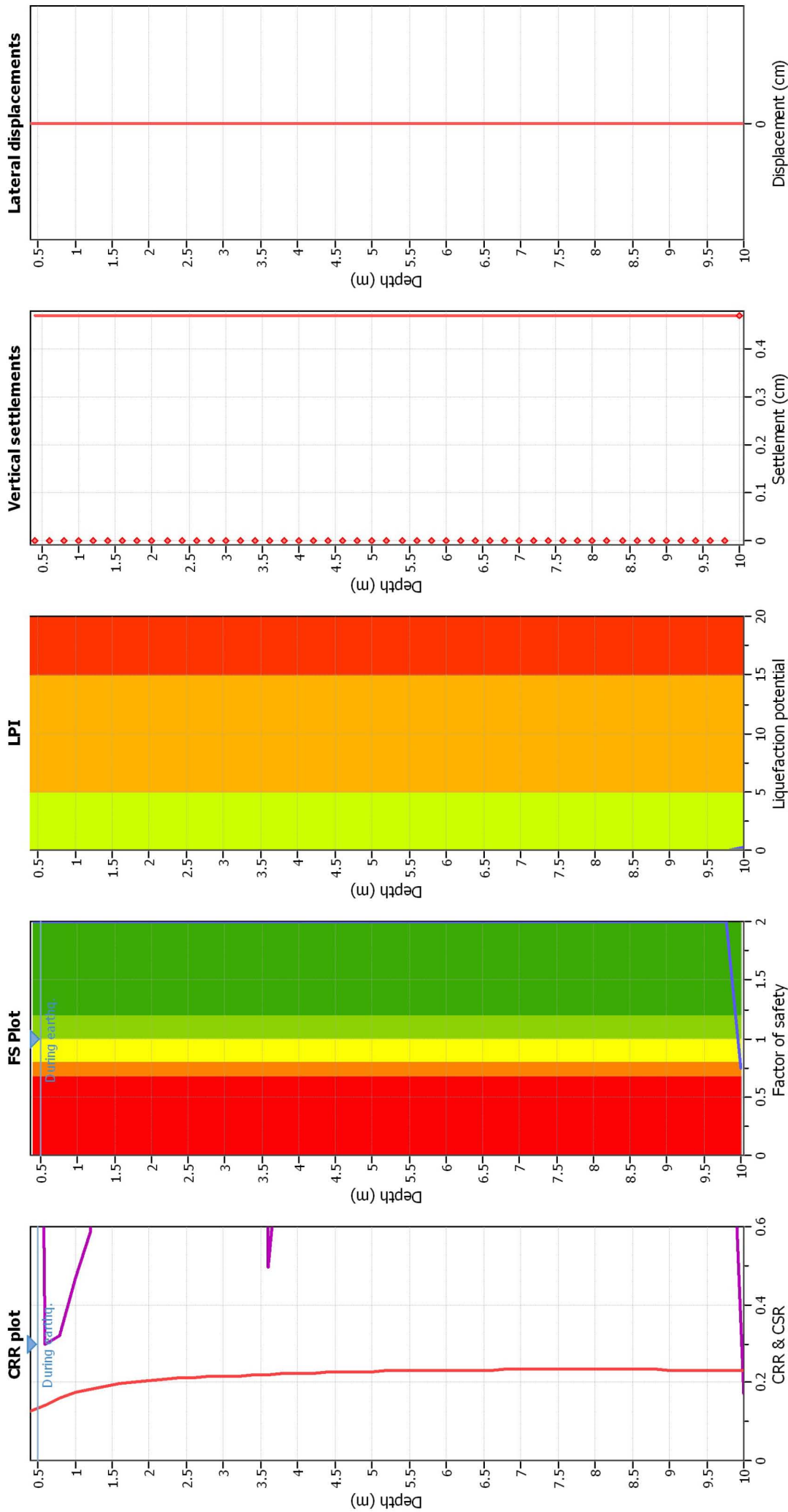
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on Ic value	K_{σ} applied:	No
Earthquake magnitude M_w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.33	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Limit depth:	N/A
Depth to water table (earthq.):	0.50 m		
Average results interval:	3		
Ic cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		

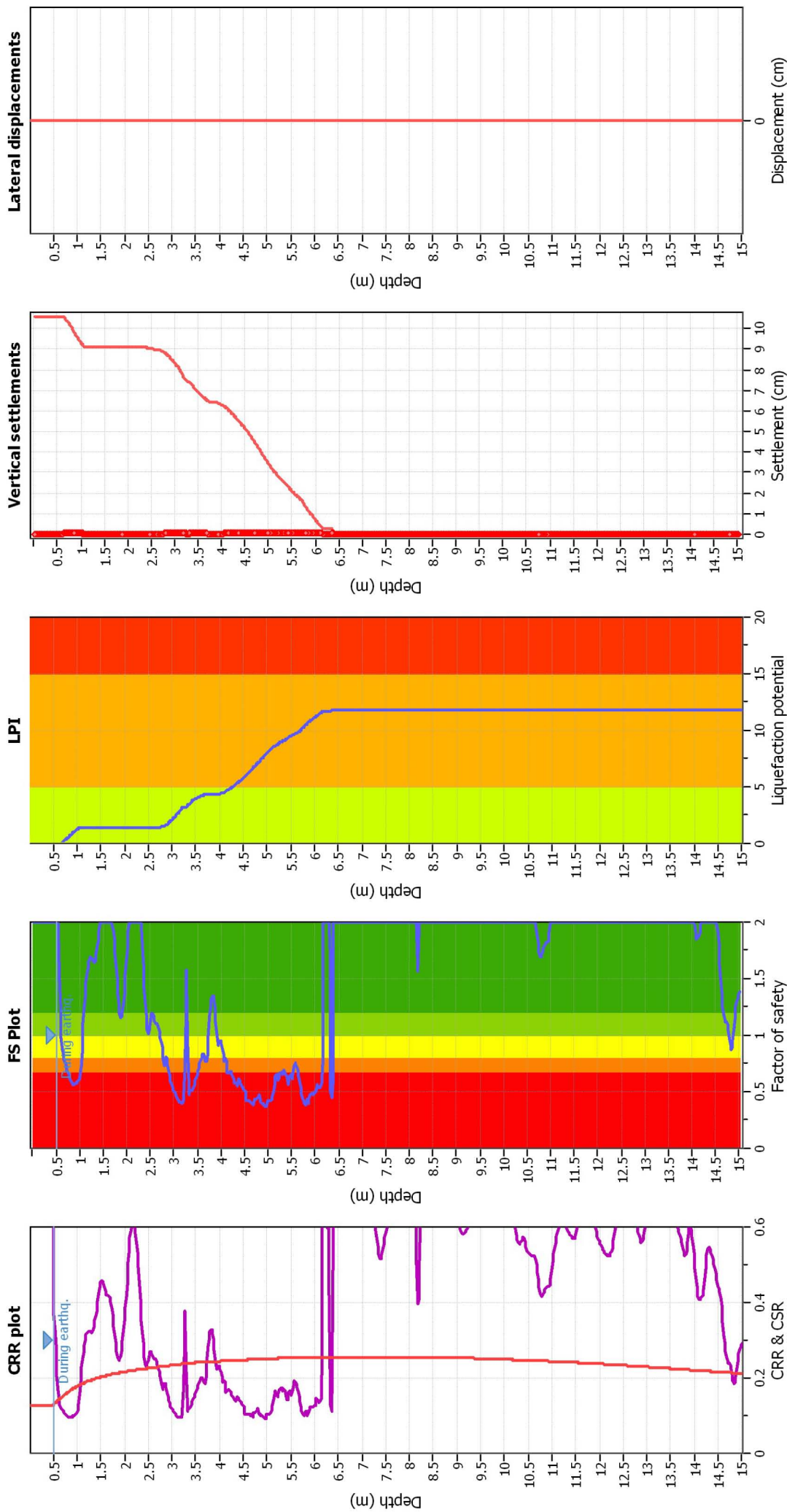
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m

Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 Ic cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

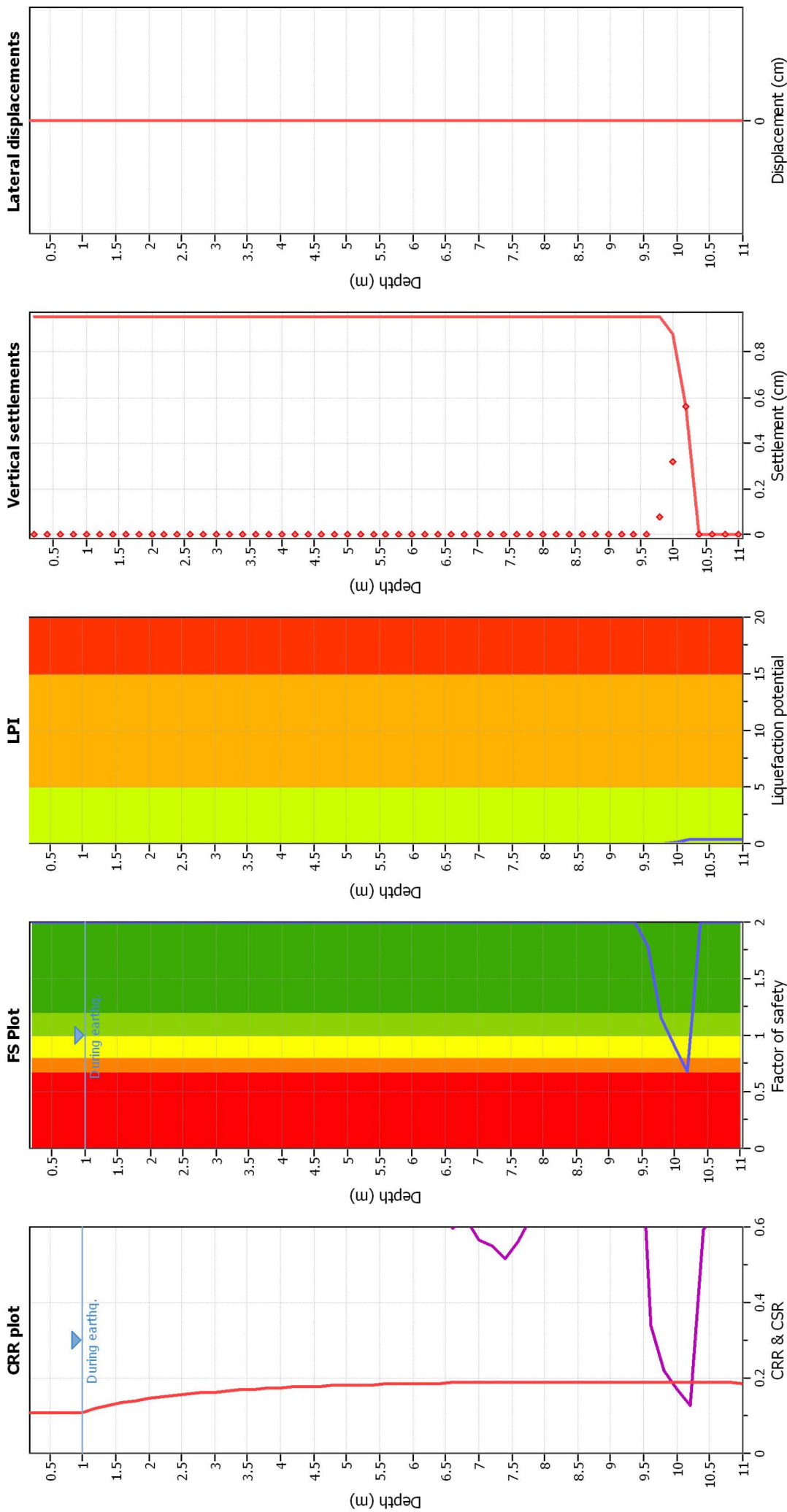
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w: 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 I_c cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_σ applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

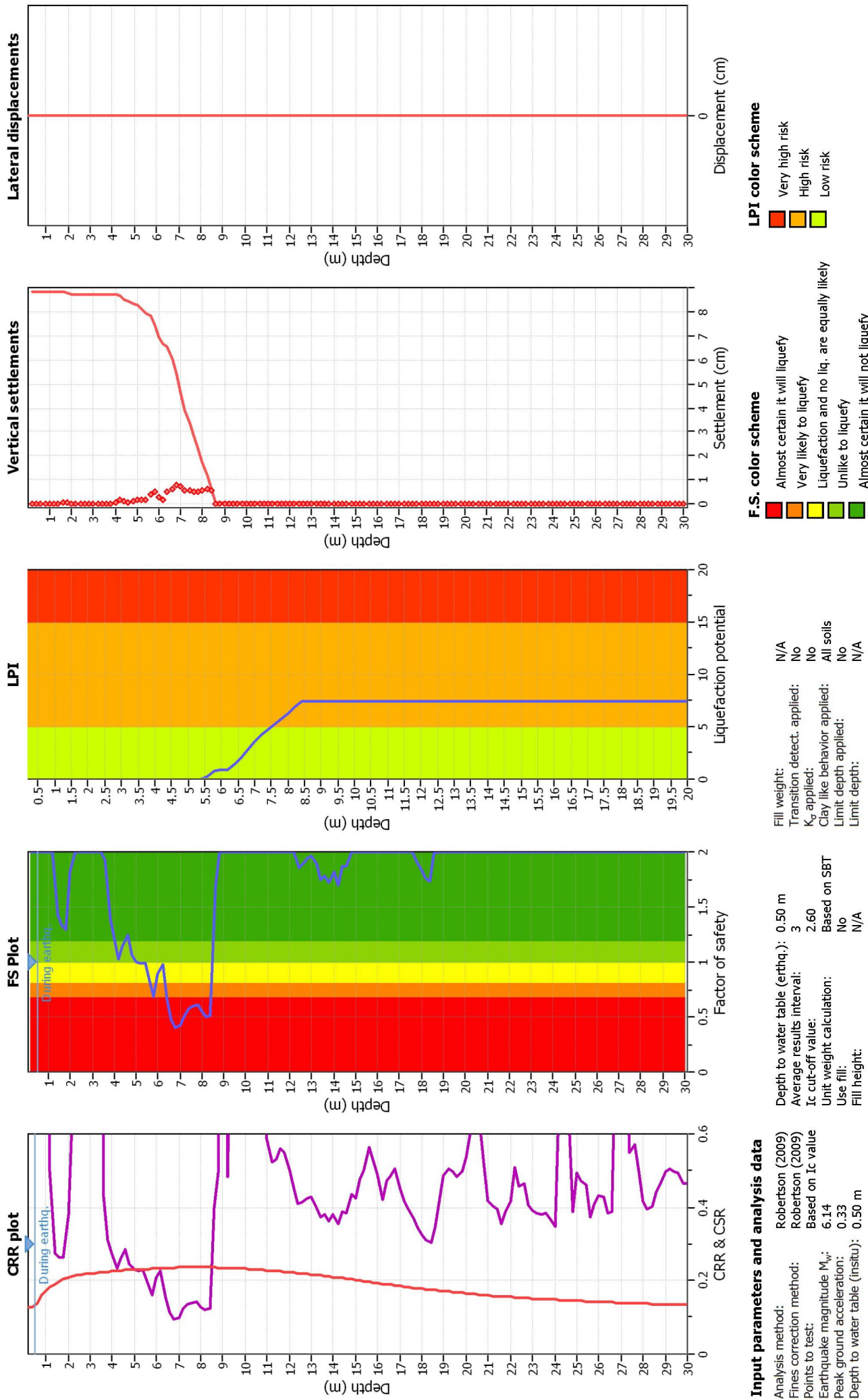
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

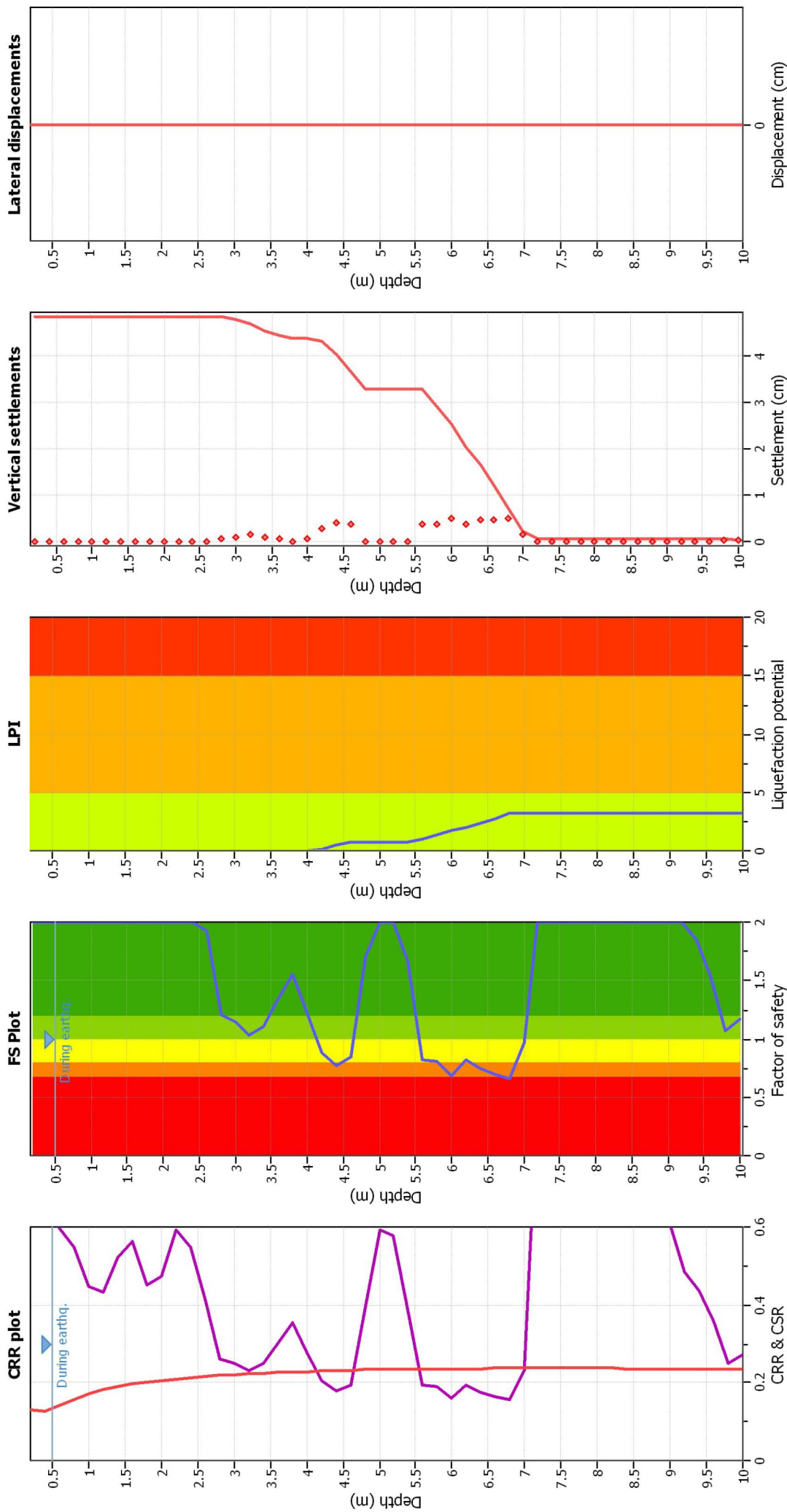
LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (earthq.):	0.50 m
Fines correction method:	Robertson (2009)	Average results interval:	3
Points to test:	Based on Ic value	Ic cut-off value:	2.60
Earthquake magnitude M_w :	6.14	Unit weight calculation:	Based on SBT
Peak ground acceleration:	0.33	Use fill:	No
Depth to water table (insitu):	0.50 m	Fill height:	N/A

Fill weight:	N/A	Transition detect. applied:	No
K_{σ} applied:	No	Clay like behavior applied:	All soils
Limit depth applied:	No	Limit depth:	N/A

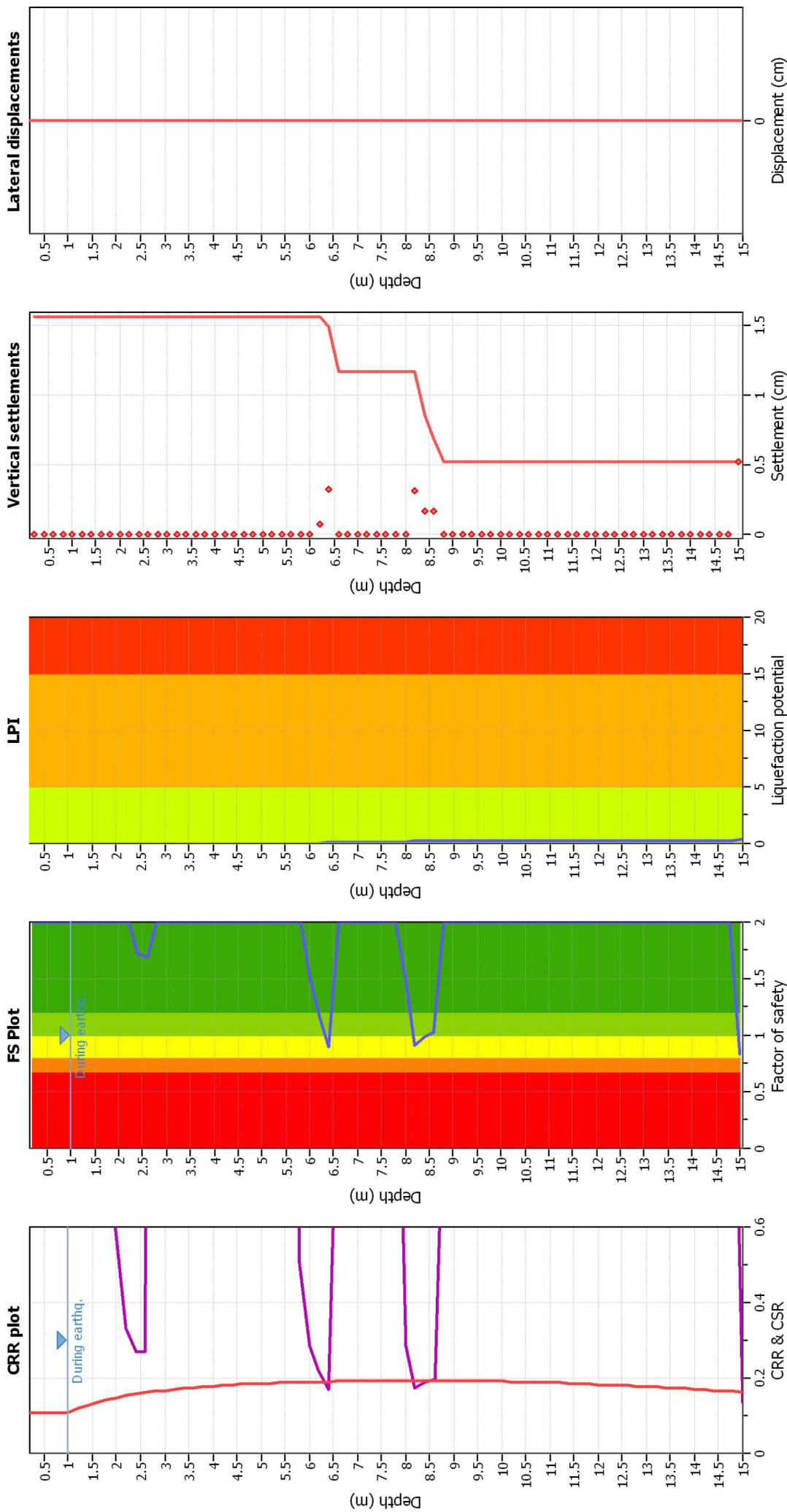
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Green	Unlikely to liquefy
Blue	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)
Fines correction method:	Robertson (2009)
Points to test:	Based on I_c value
Earthquake magnitude M_w :	6.14
Peak ground acceleration:	0.28
Depth to water table (insitu):	1.00 m
Depth to water table (earthq.):	1.00 m
Average results interval:	3
I_c cut-off value:	2.60
Unit weight calculation:	Based on SBT
Use fill:	No
Fill height:	N/A
Transition detect. applied:	No
K_{σ} applied:	No
Clay like behavior applied:	All soils
Limit depth applied:	No
Limit depth:	N/A
Fill weight:	N/A

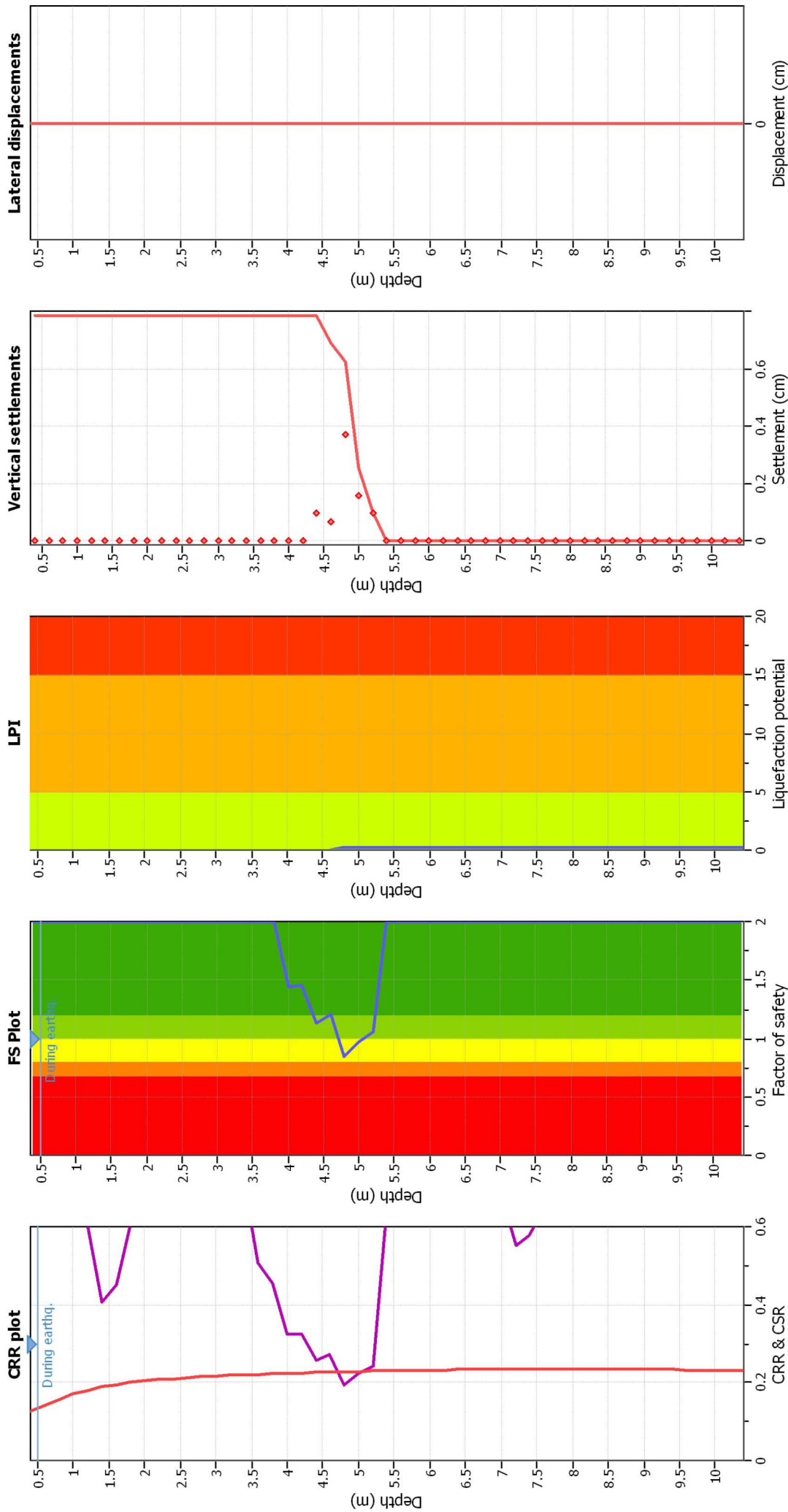
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m
 Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 Ic cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

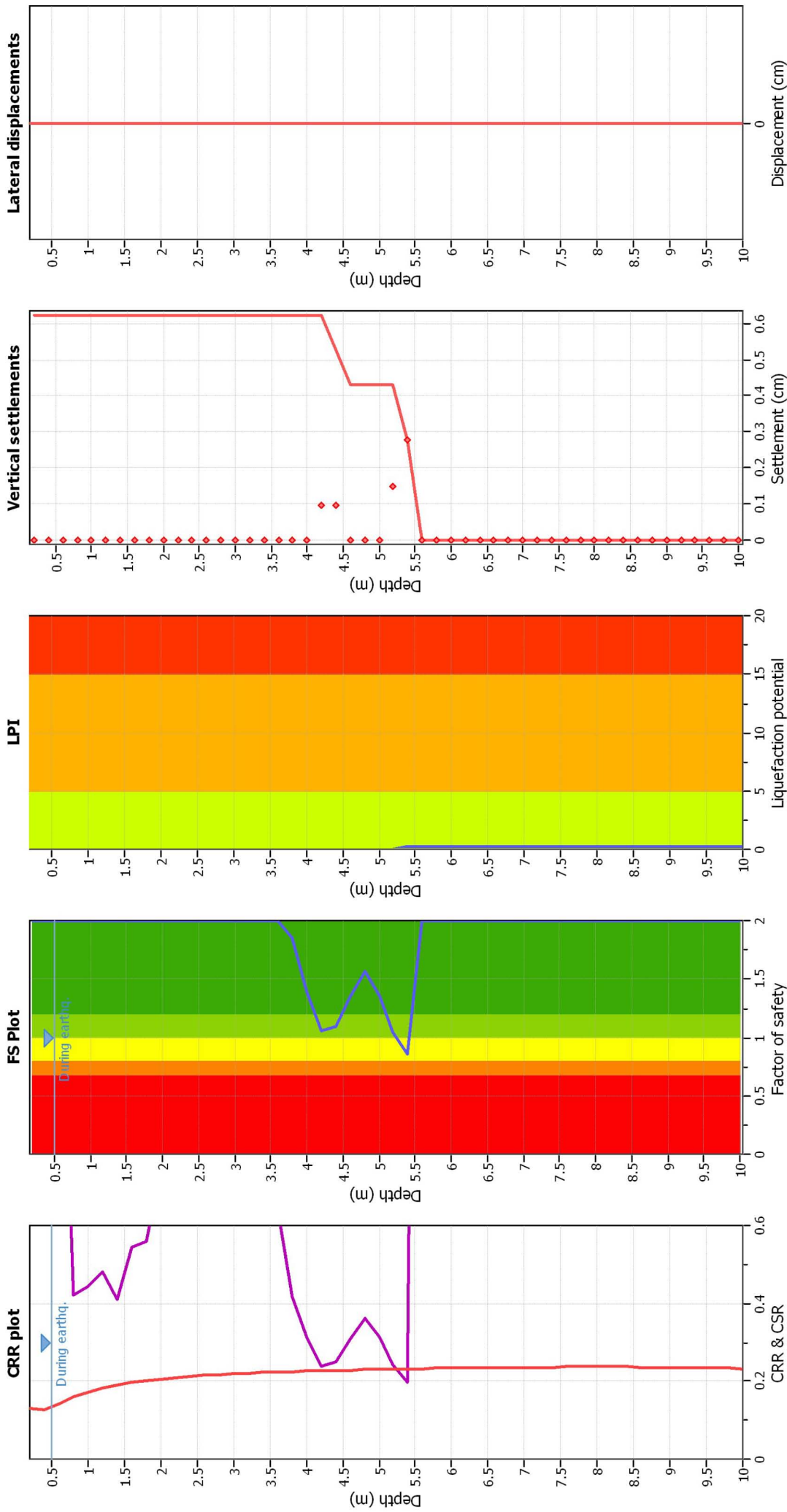
F.S. color scheme

■ Almost certain it will liquefy
■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlikely to liquefy
■ Almost certain it will not liquefy

LPI color scheme

■ Very high risk
■ High risk
■ Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m
 Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 Ic cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

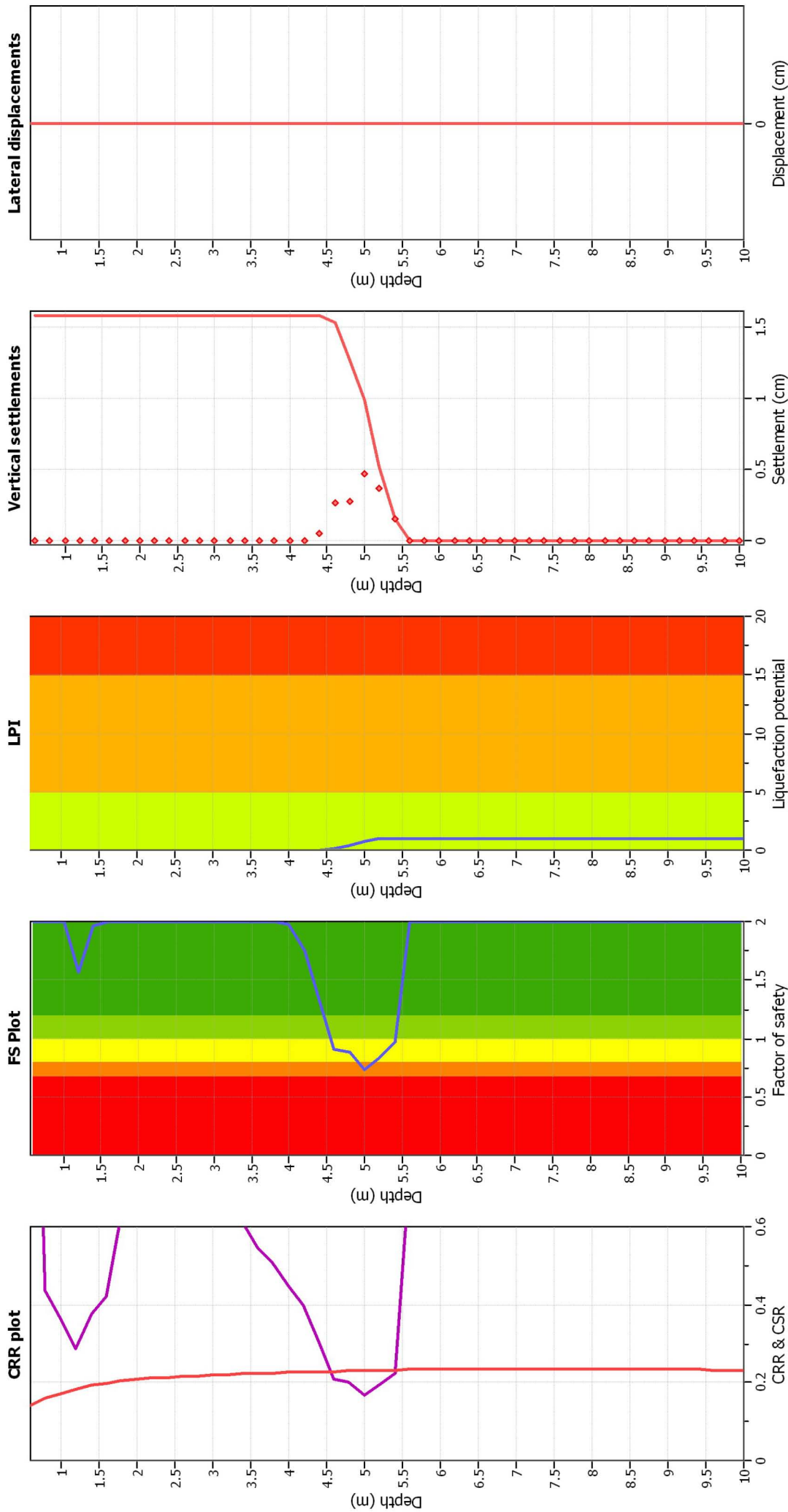
F.S. color scheme

■ Almost certain it will liquefy
■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlikely to liquefy
■ Almost certain it will not liquefy

LPI color scheme

■ Very high risk
■ High risk
■ Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on Ic value	K_{σ} applied:	No
Earthquake magnitude M_w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.33	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Limit depth:	N/A
Depth to water table (earthq.):	0.50 m		
Average results interval:	3		
Ic cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		

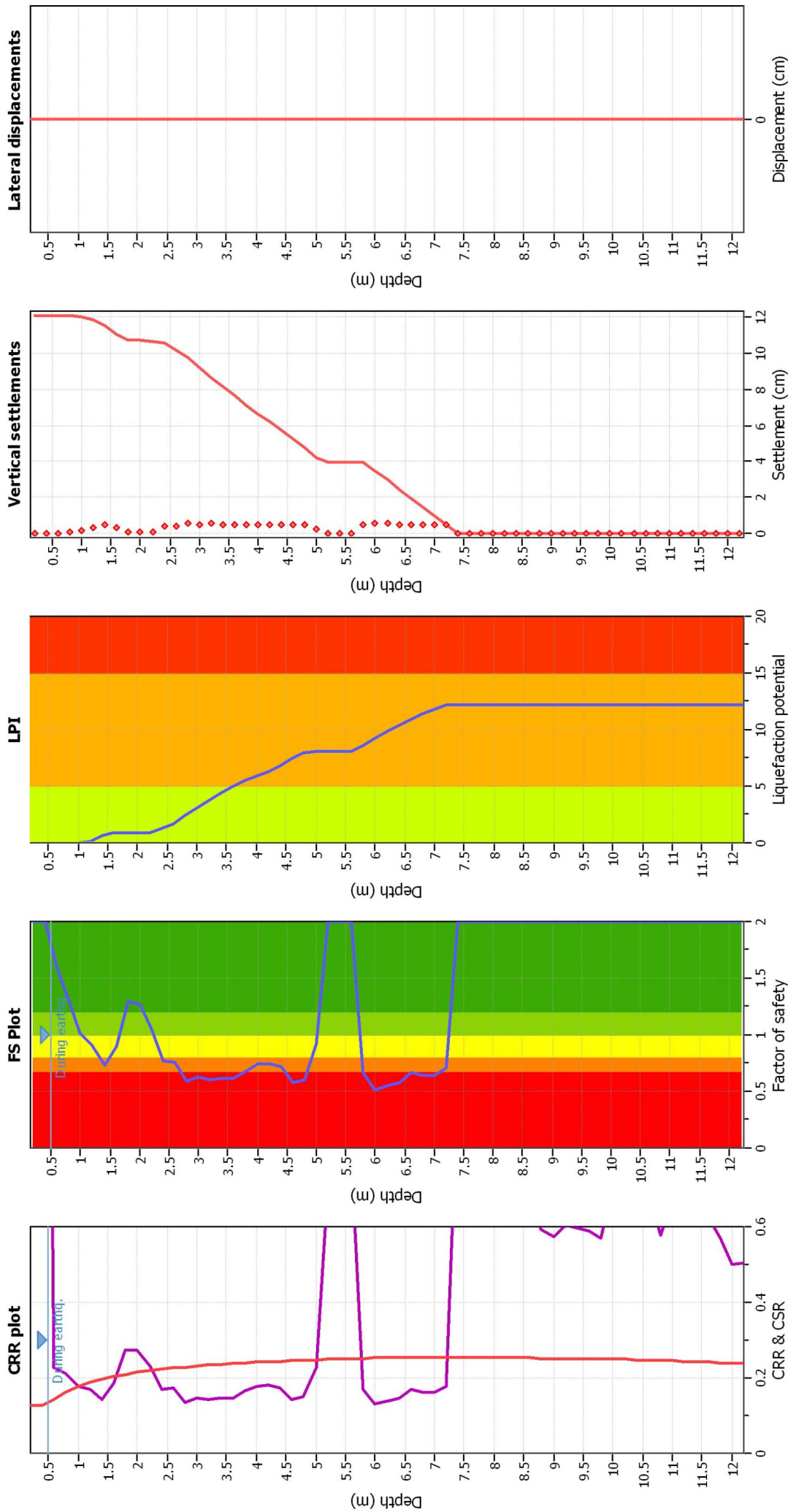
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Green	Unlike to liquefy
Dark Green	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	0.50 m
Fines correction method:	Robertson (2009)	Average results interval:	3
Points to test:	Based on Ic value	Ic cut-off value:	2.60
Earthquake magnitude M_w :	6.14	Unit weight calculation:	Based on SBT
Peak ground acceleration:	0.33	Use fill:	No
Depth to water table (insitu):	0.50 m	Fill height:	N/A
Fill weight:	N/A	Transition detect. applied:	N/A
K_{σ} applied:	No	Clay like behavior applied:	All soils
Limit depth applied:	No	Limit depth:	N/A

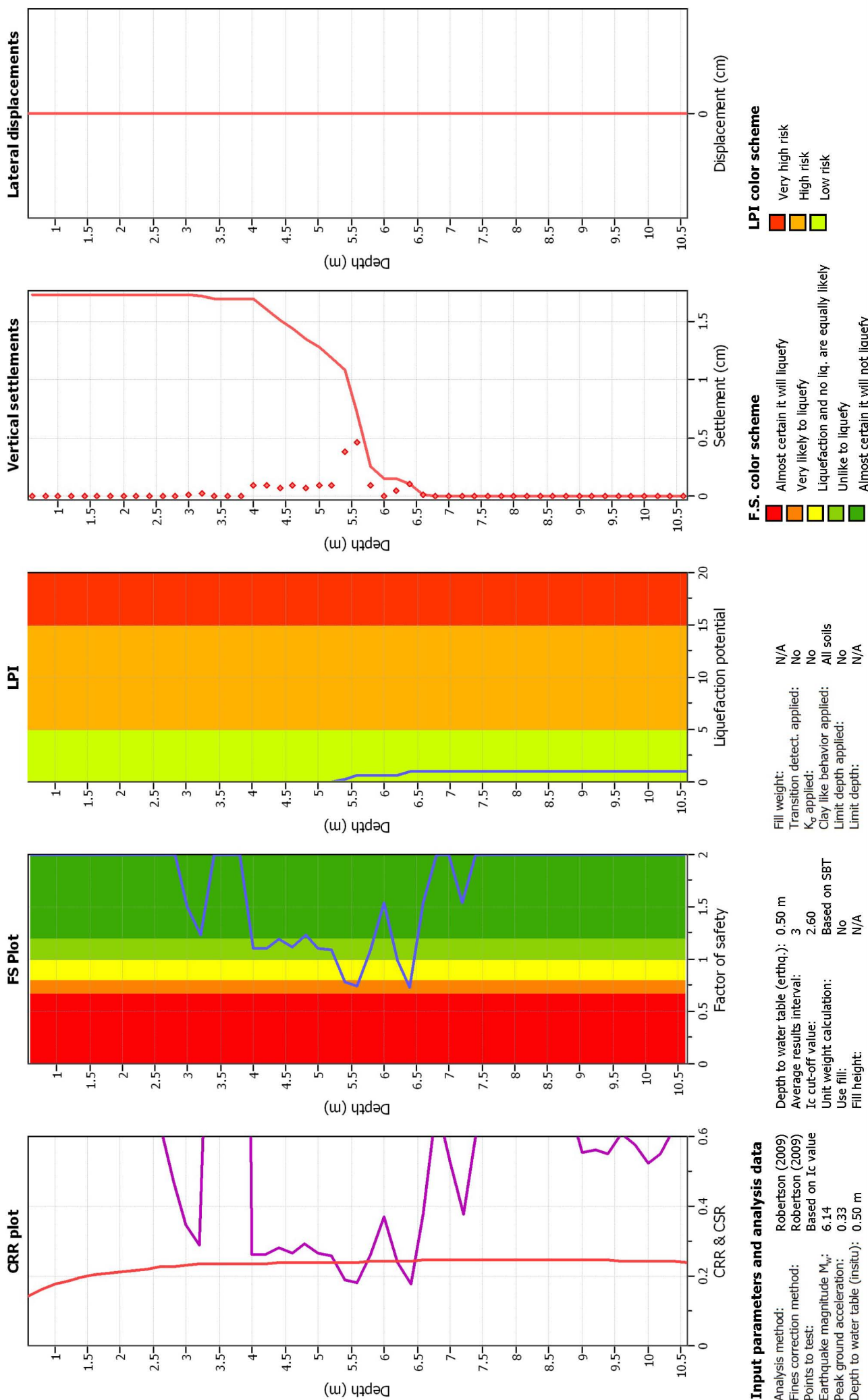
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Green	Unlike to liquefy
Dark Green	Almost certain it will not liquefy

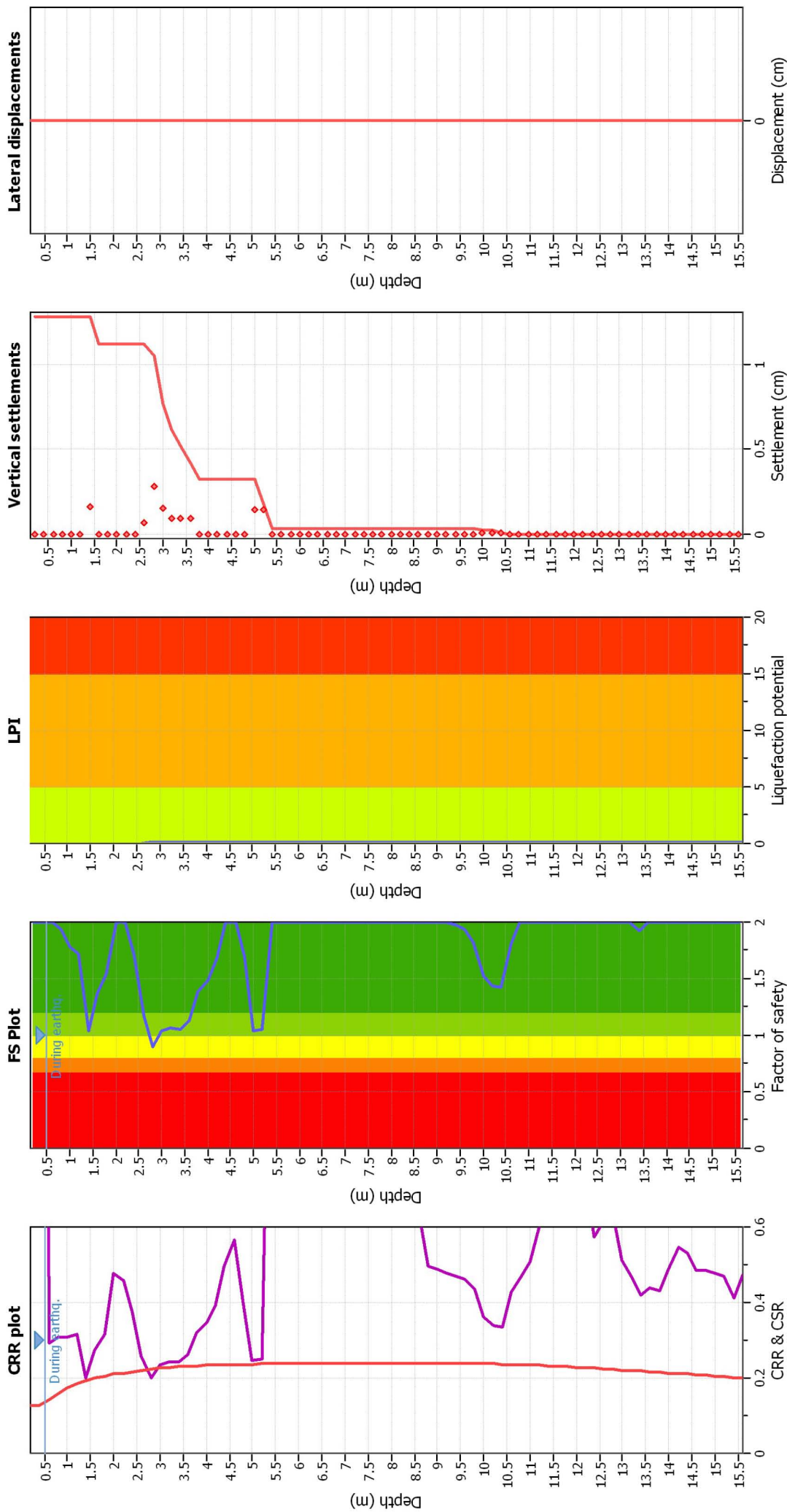
LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk

Liquefaction analysis overall plots



Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on I _c value	K _σ applied:	No
Earthquake magnitude M _w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.33	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Limit depth:	N/A
Depth to water table (earthq.):	0.50 m		
Average results interval:	3		
I _c cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		

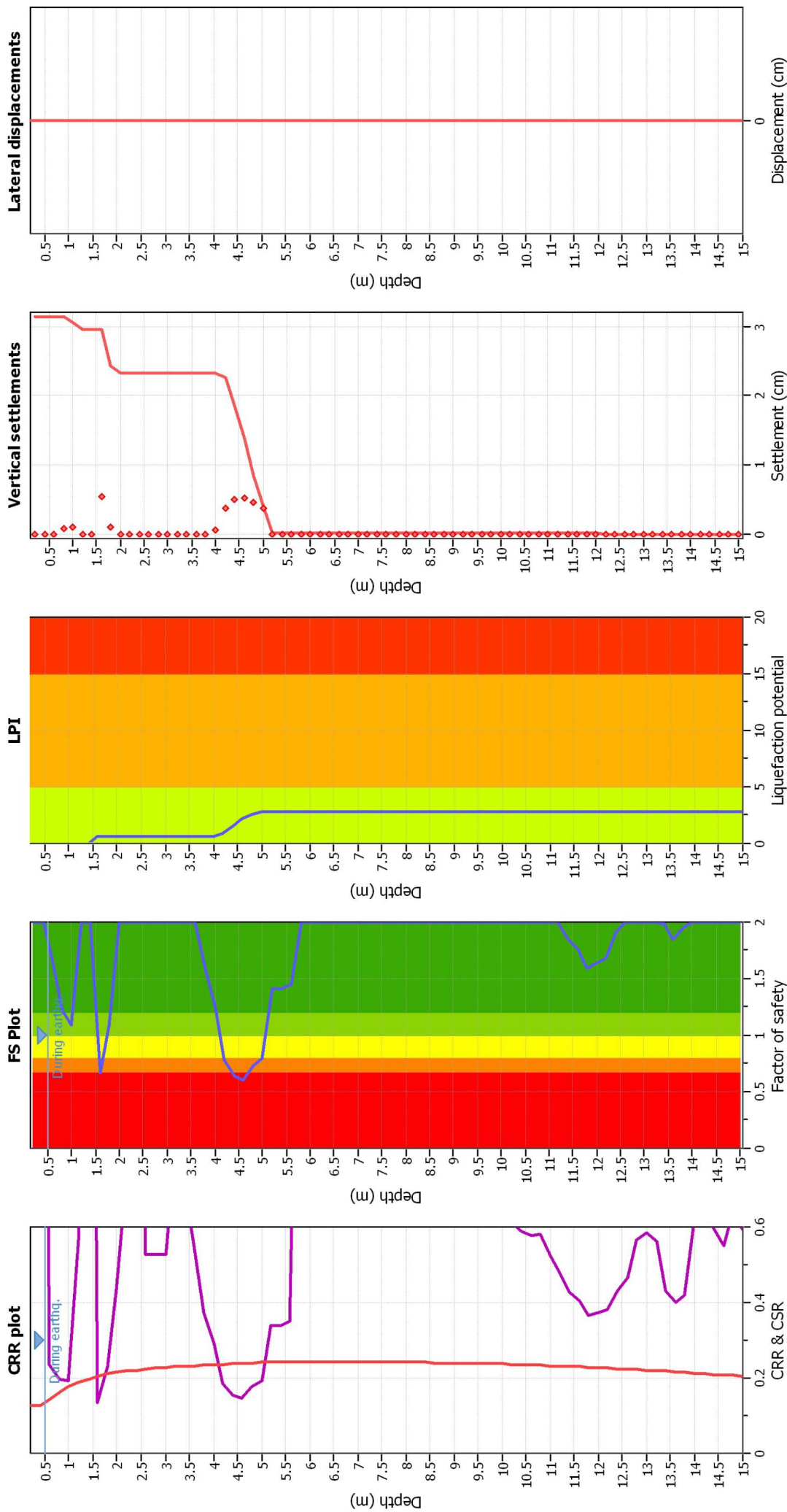
F.S. color scheme

■	Almost certain it will liquefy
■	Very likely to liquefy
■	Liquefaction and no liq. are equally likely
■	Unlike to liquefy
■	Almost certain it will not liquefy

LPI color scheme

■	Very high risk
■	High risk
■	Low risk

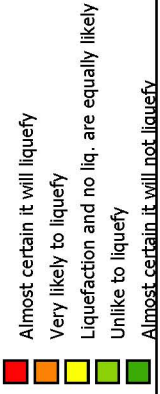
Liquefaction analysis overall plots



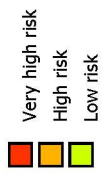
Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on Ic value	K_{σ} applied:	No
Earthquake magnitude M_w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.33	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Limit depth:	N/A
Depth to water table (earthq.):	0.50 m	Fill weight:	N/A
Average results interval:	3	Transition detect. applied:	No
Ic cut-off value:	2.60	K_{σ} applied:	No
Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Use fill:	No	Limit depth applied:	No
Fill height:	N/A	Limit depth:	N/A

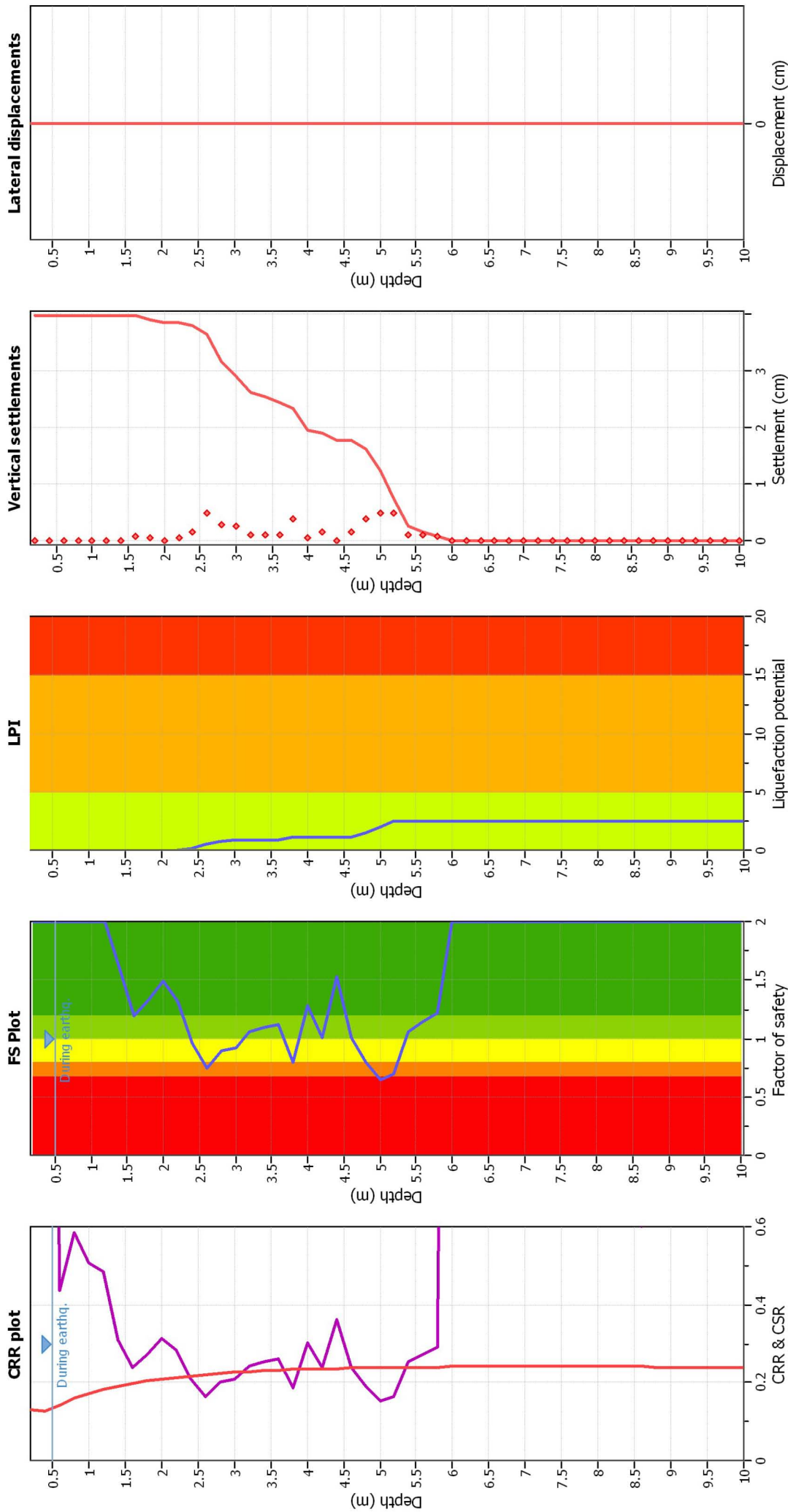
F.S. color scheme



LPI color scheme



Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)
Fines correction method:	Robertson (2009)
Points to test:	Based on Ic value
Earthquake magnitude M_w :	6.14
Peak ground acceleration:	0.33
Depth to water table (insitu):	0.50 m
Depth to water table (earthq.):	0.50 m
Average results interval:	3
Ic cut-off value:	2.60
Unit weight calculation:	Based on SBT
Use fill:	No
Fill height:	N/A
Fill weight:	N/A
Transition detect. applied:	No
K_{σ} applied:	No
Clay like behavior applied:	All soils
Limit depth applied:	No
Limit depth:	N/A

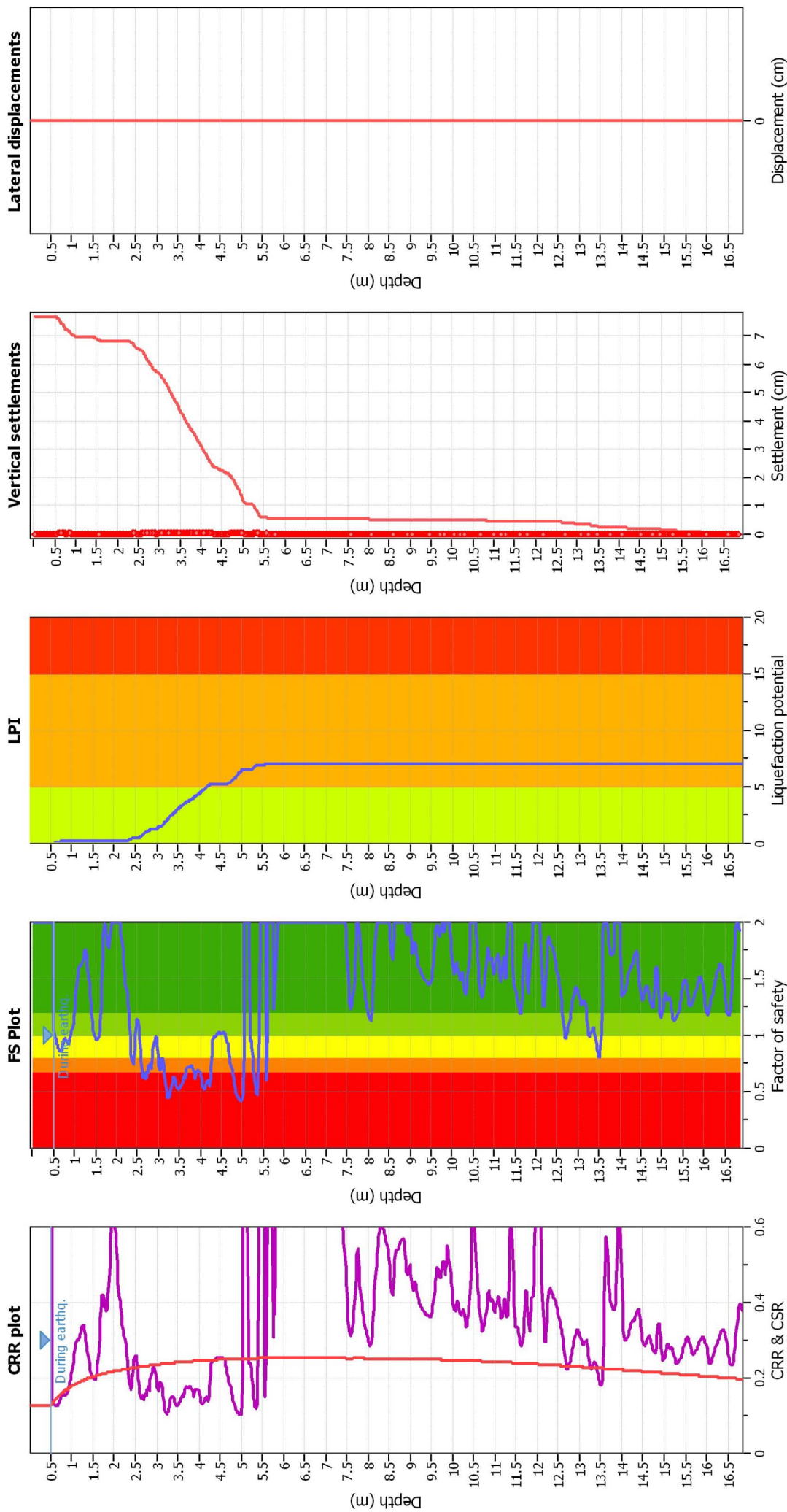
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Light Green	Unlikely to liquefy
Dark Green	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m

Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 Ic cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

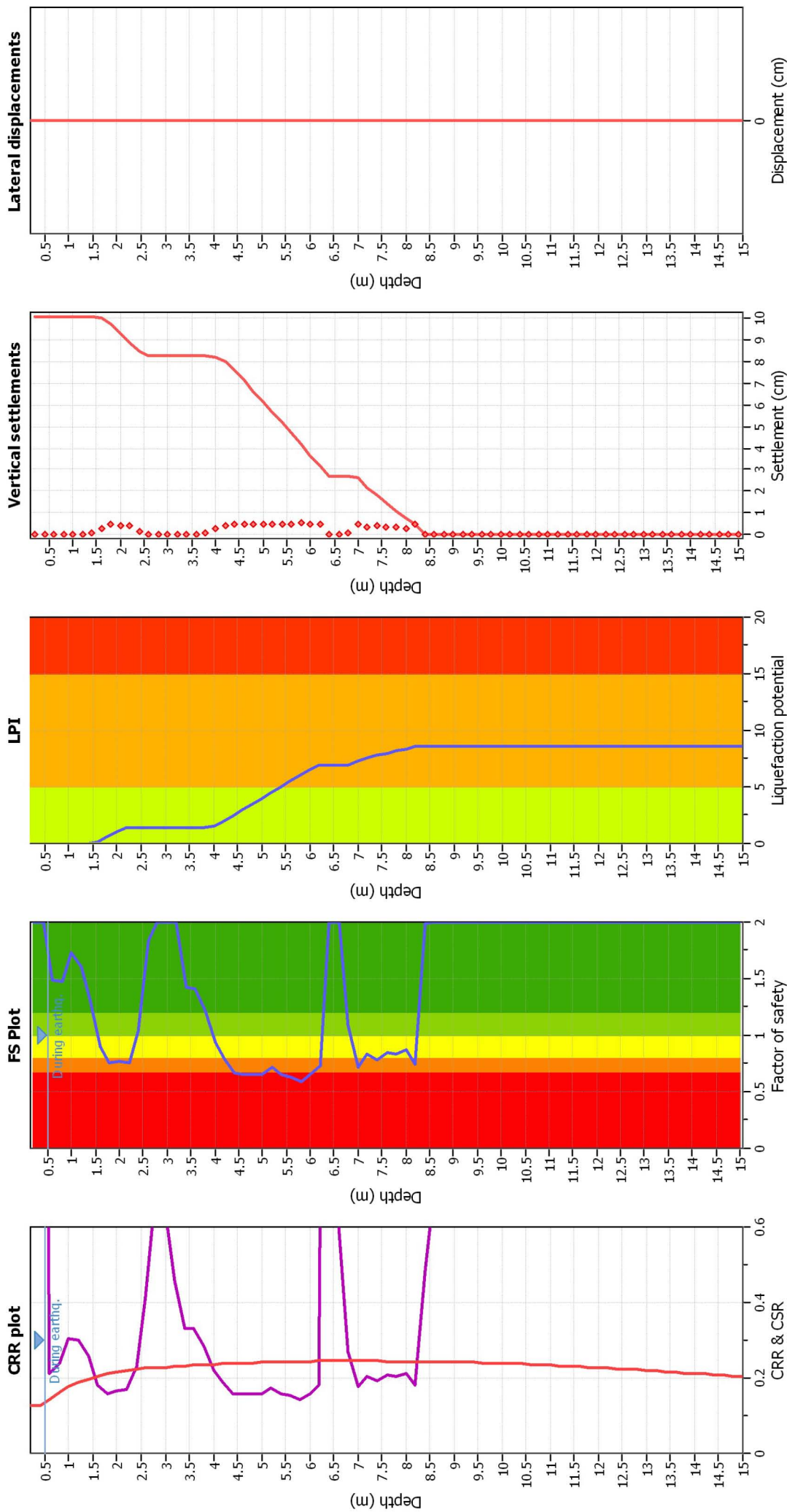
F.S. color scheme

■ Almost certain it will liquefy
■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlikely to liquefy
■ Almost certain it will not liquefy

LPI color scheme

■ Very high risk
■ High risk
■ Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on I _c value	K _σ applied:	No
Earthquake magnitude M _w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.33	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Limit depth:	N/A
Depth to water table (earthq.):	0.50 m		
Average results interval:	3		
I _c cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		

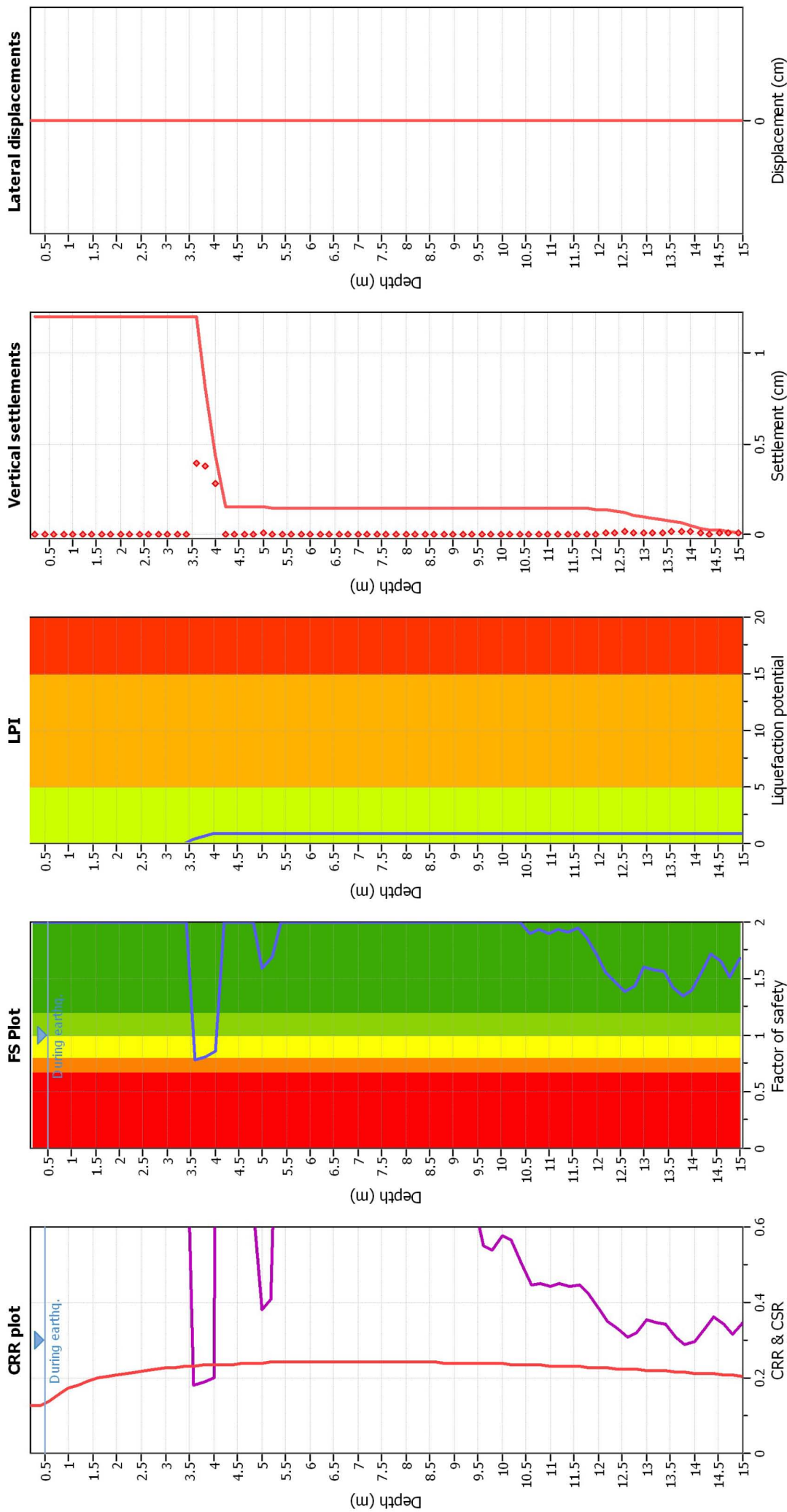
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Green	Unlike to liquefy
Dark Green	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on I _c value	K _σ applied:	No
Earthquake magnitude M _w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.33	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Limit depth:	N/A
Depth to water table (earthq.):	0.50 m		
Average results interval:	3		
I _c cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		

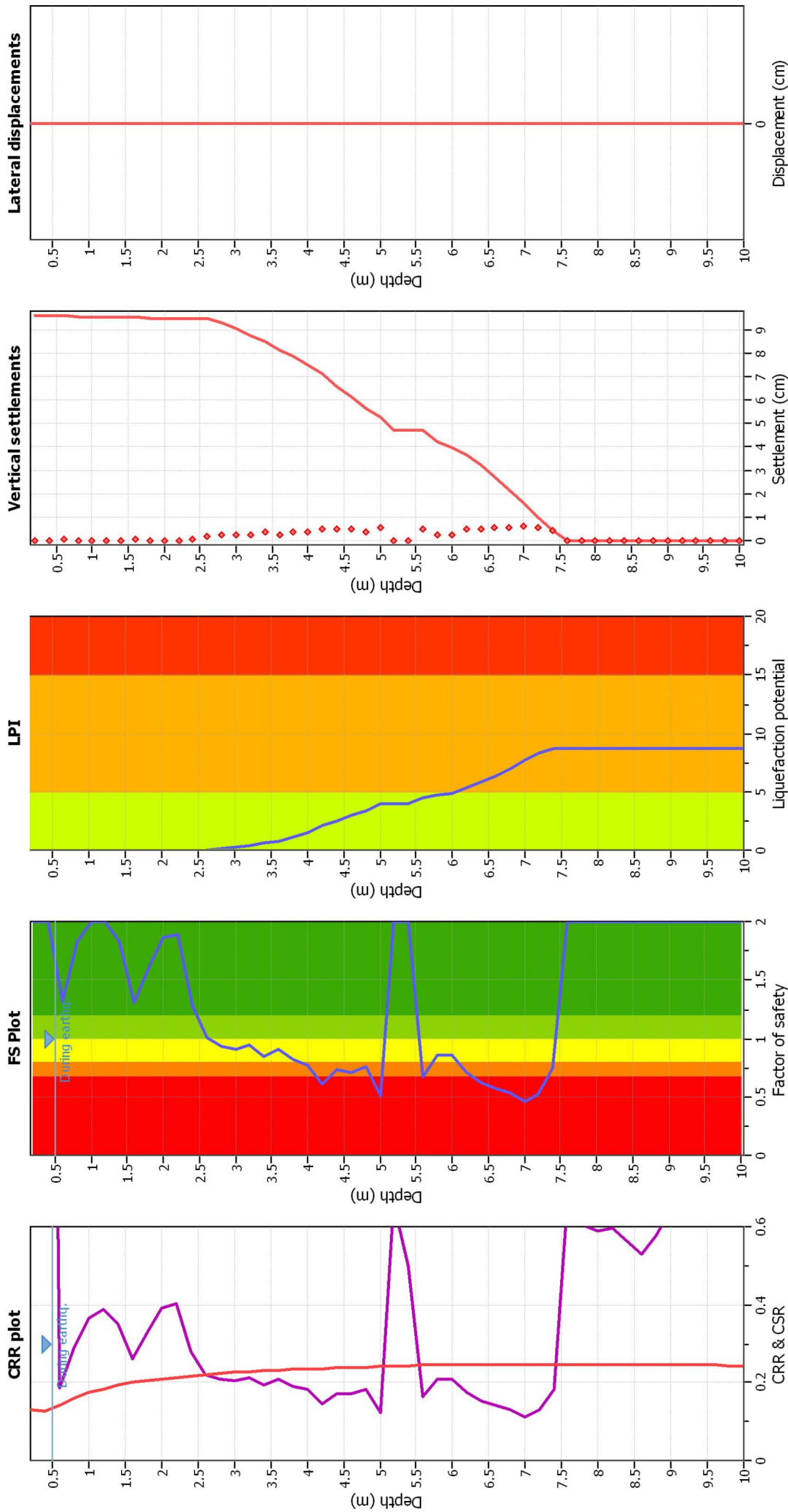
F.S. color scheme

■	Almost certain it will liquefy
■	Very likely to liquefy
■	Liquefaction and no liq. are equally likely
■	Unlikely to liquefy
■	Almost certain it will not liquefy

LPI color scheme

■	Very high risk
■	High risk
■	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on Ic value	K_{σ} applied:	No
Earthquake magnitude M_w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.33	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Limit depth:	N/A
Depth to water table (earthq.):	0.50 m		
Average results interval:	3		
Ic cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		

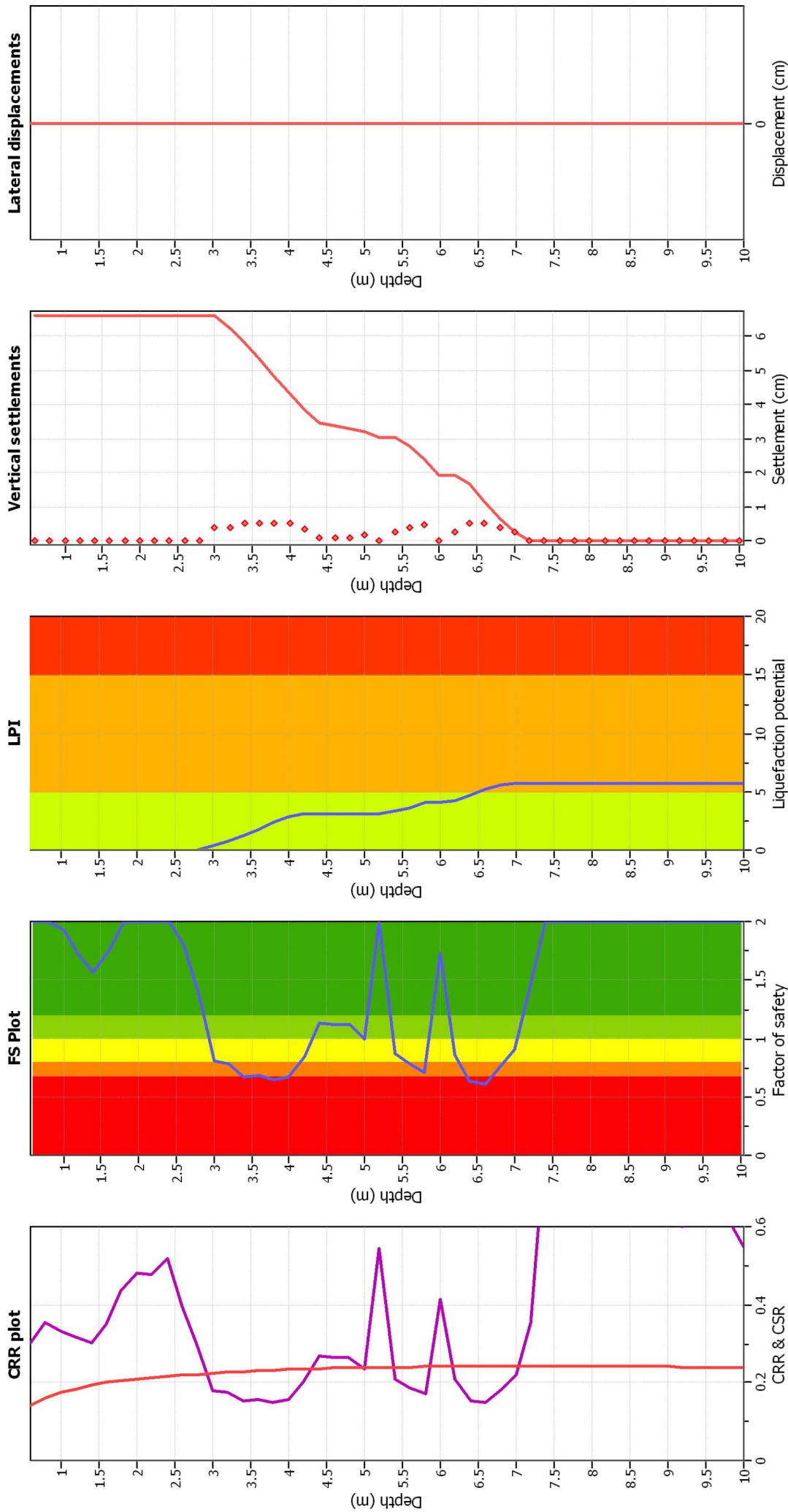
F.S. color scheme

■	Almost certain it will liquefy
■	Very likely to liquefy
■	Liquefaction and no liq. are equally likely
■	Unlikely to liquefy
■	Almost certain it will not liquefy

LPI color scheme

■	Very high risk
■	High risk
■	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on Ic value	K _σ applied:	No
Earthquake magnitude M _w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.33	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Limit depth:	N/A
Depth to water table (earthq.):	0.50 m		
Average results interval:	3		
Ic cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		

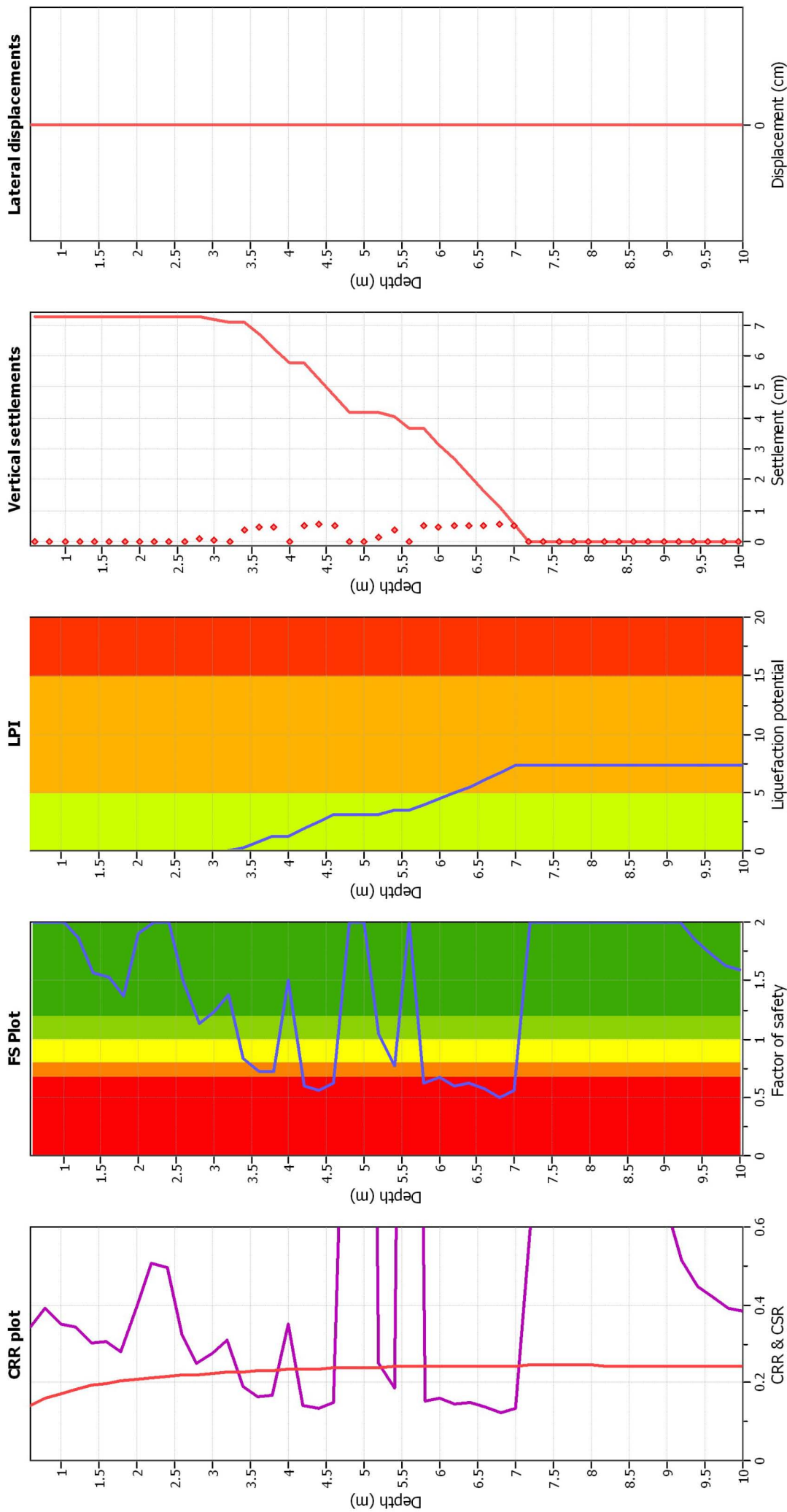
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Light Green	Unlike to liquefy
Dark Green	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m

Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 Ic cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

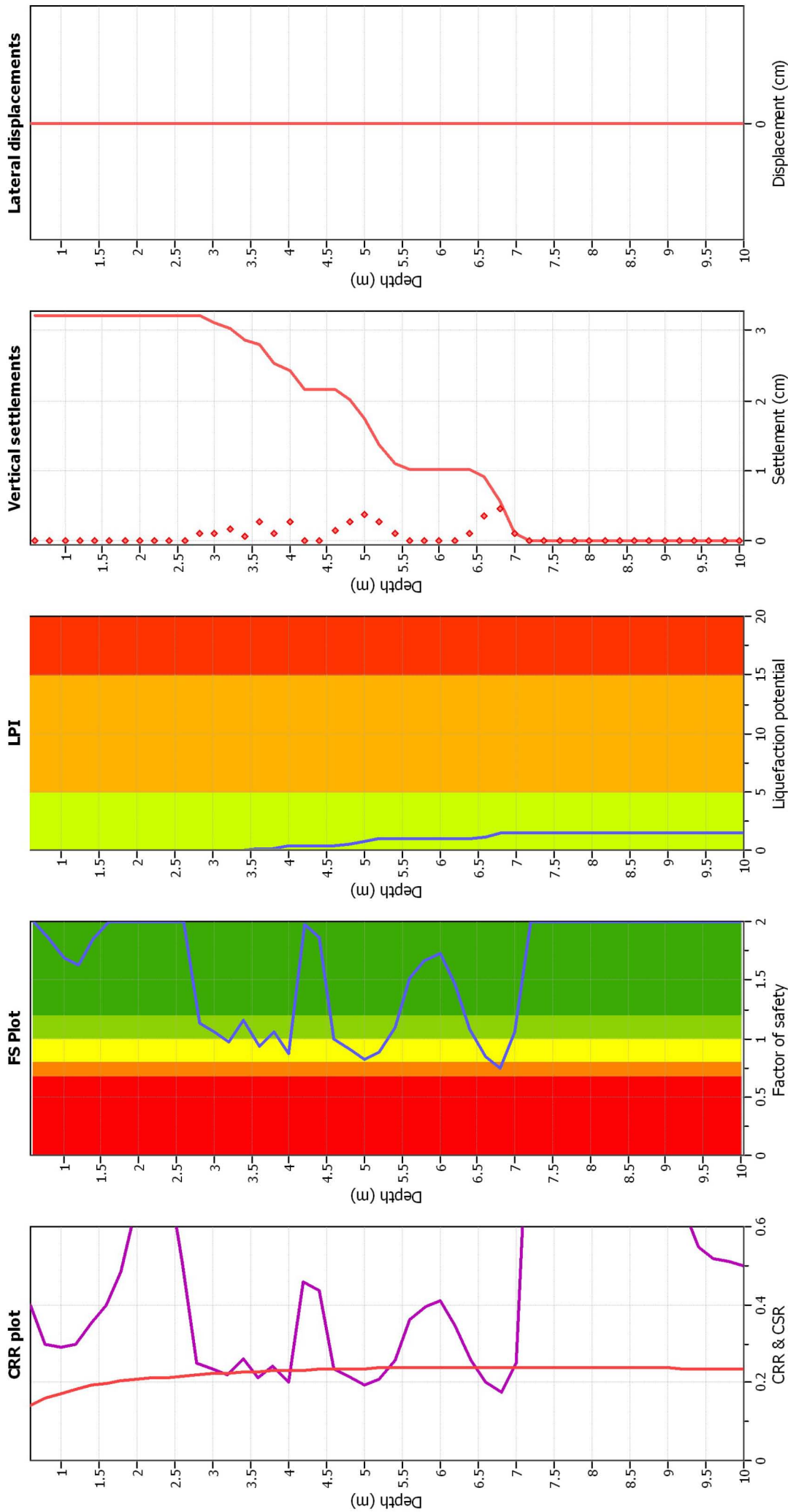
F.S. color scheme

Almost certain it will liquefy
 Very likely to liquefy
 Liquefaction and no liq. are equally likely
 Unlike to liquefy
 Almost certain it will not liquefy

LPI color scheme

Very high risk
 High risk
 Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m

Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 Ic cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

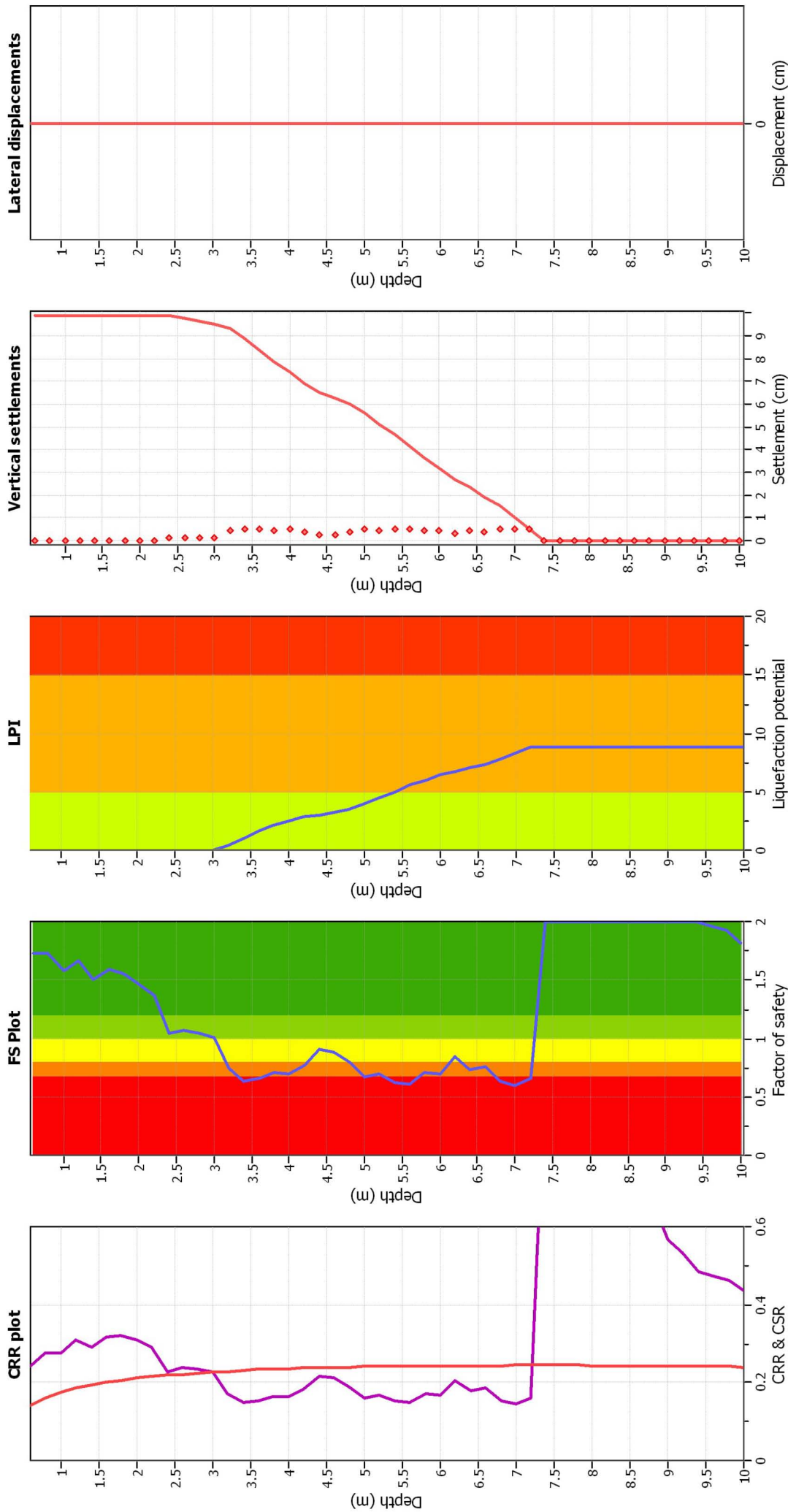
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m

Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 I_c cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

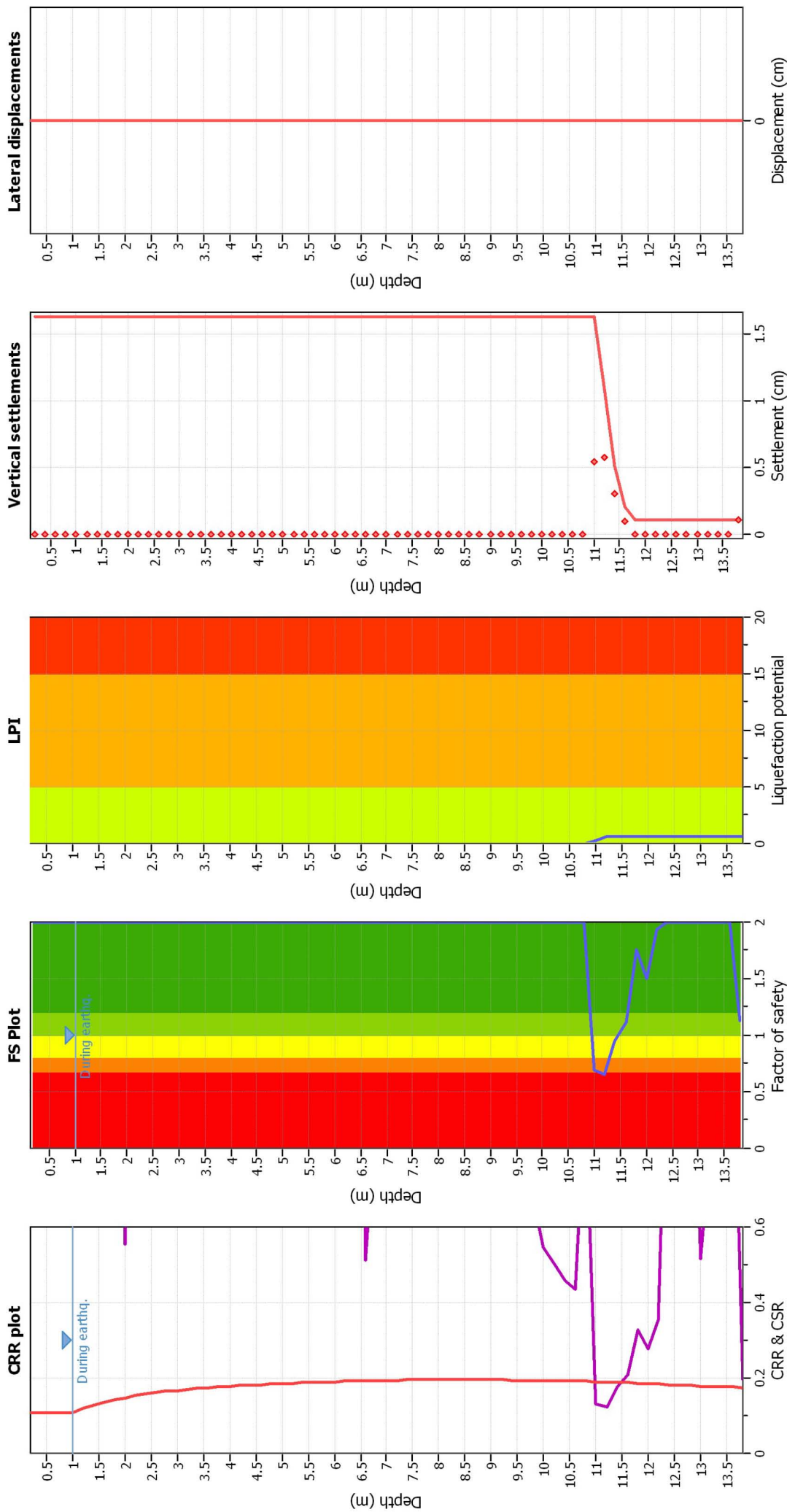
F.S. color scheme

■ Almost certain it will liquefy
■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlike to liquefy
■ Almost certain it will not liquefy

LPI color scheme

■ Very high risk
■ High risk
■ Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (earthq.):	1.00 m
Fines correction method:	Robertson (2009)	Average results interval:	3
Points to test:	Based on I _c value	I _c cut-off value:	2.60
Earthquake magnitude M _w :	6.14	Unit weight calculation:	Based on SBT
Peak ground acceleration:	0.28	Use fill:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A
Fill weight:	N/A	Transition detect. applied:	N/A
K _σ applied:	No	Clay like behavior applied:	All soils
Limit depth applied:	No	Limit depth:	N/A

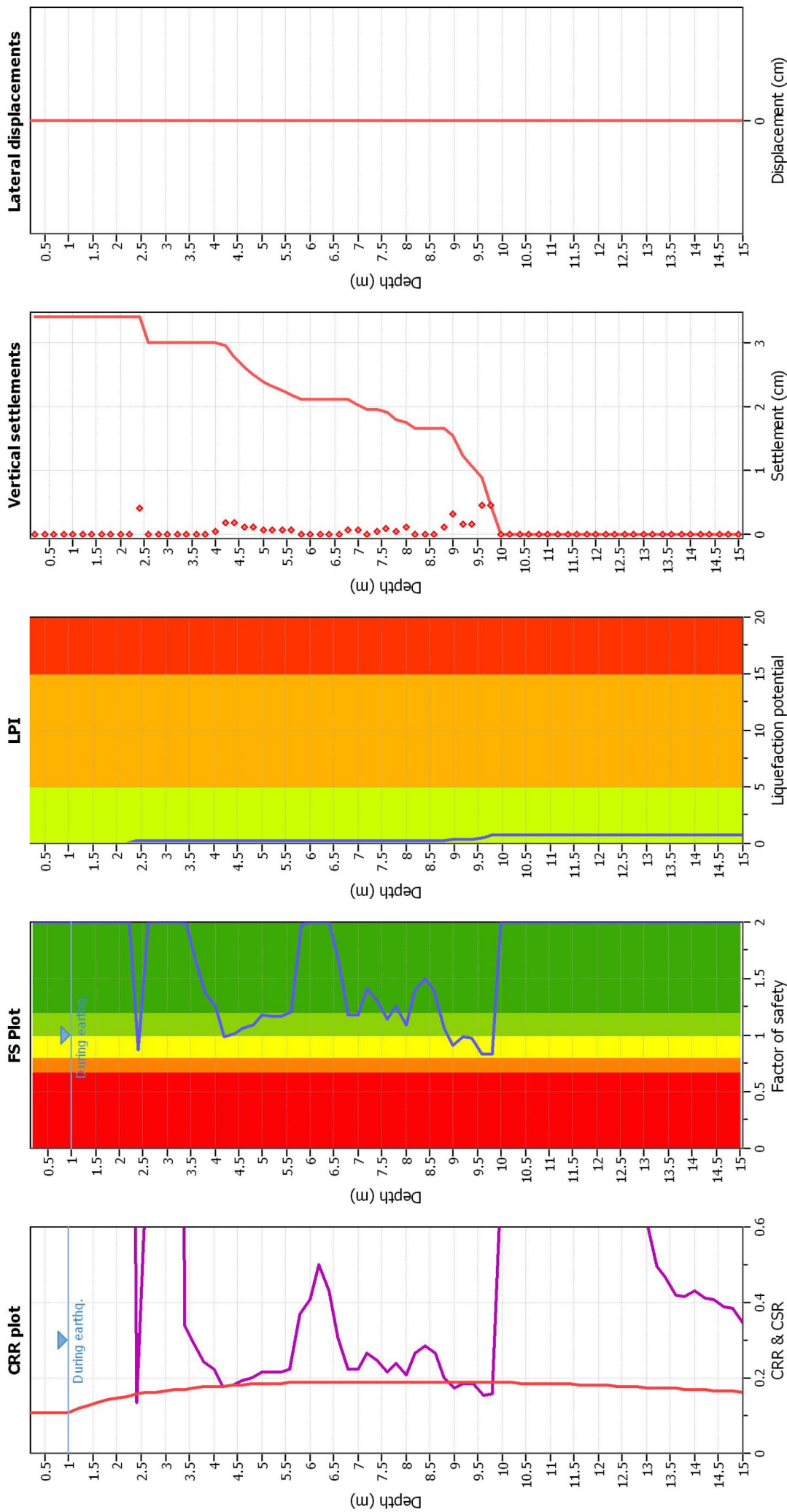
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Green	Unlike to liquefy
Dark Green	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on I _c value	K _σ applied:	No
Earthquake magnitude M _w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.28	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Limit depth:	N/A
Depth to water table (earthq.):	1.00 m		
Average results interval:	3		
I _c cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		

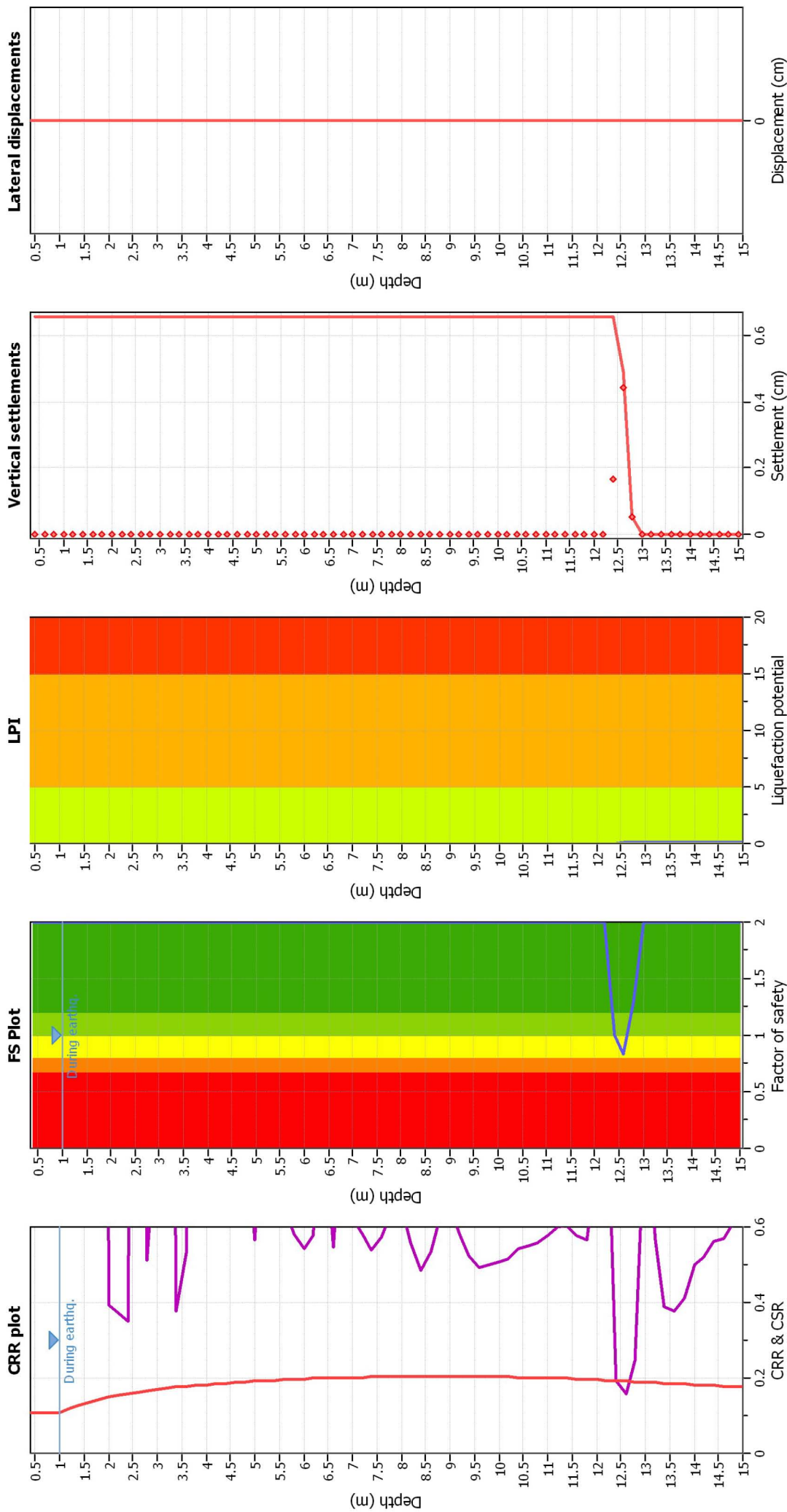
F.S. color scheme

■	Almost certain it will liquefy
■	Very likely to liquefy
■	Liquefaction and no liq. are equally likely
■	Unlikely to liquefy
■	Almost certain it will not liquefy

LPI color scheme

■	Very high risk
■	High risk
■	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on Ic value	K_{σ} applied:	No
Earthquake magnitude M_w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.28	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Limit depth:	N/A
Depth to water table (earthq.):	1.00 m		
Average results interval:	3		
Ic cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		

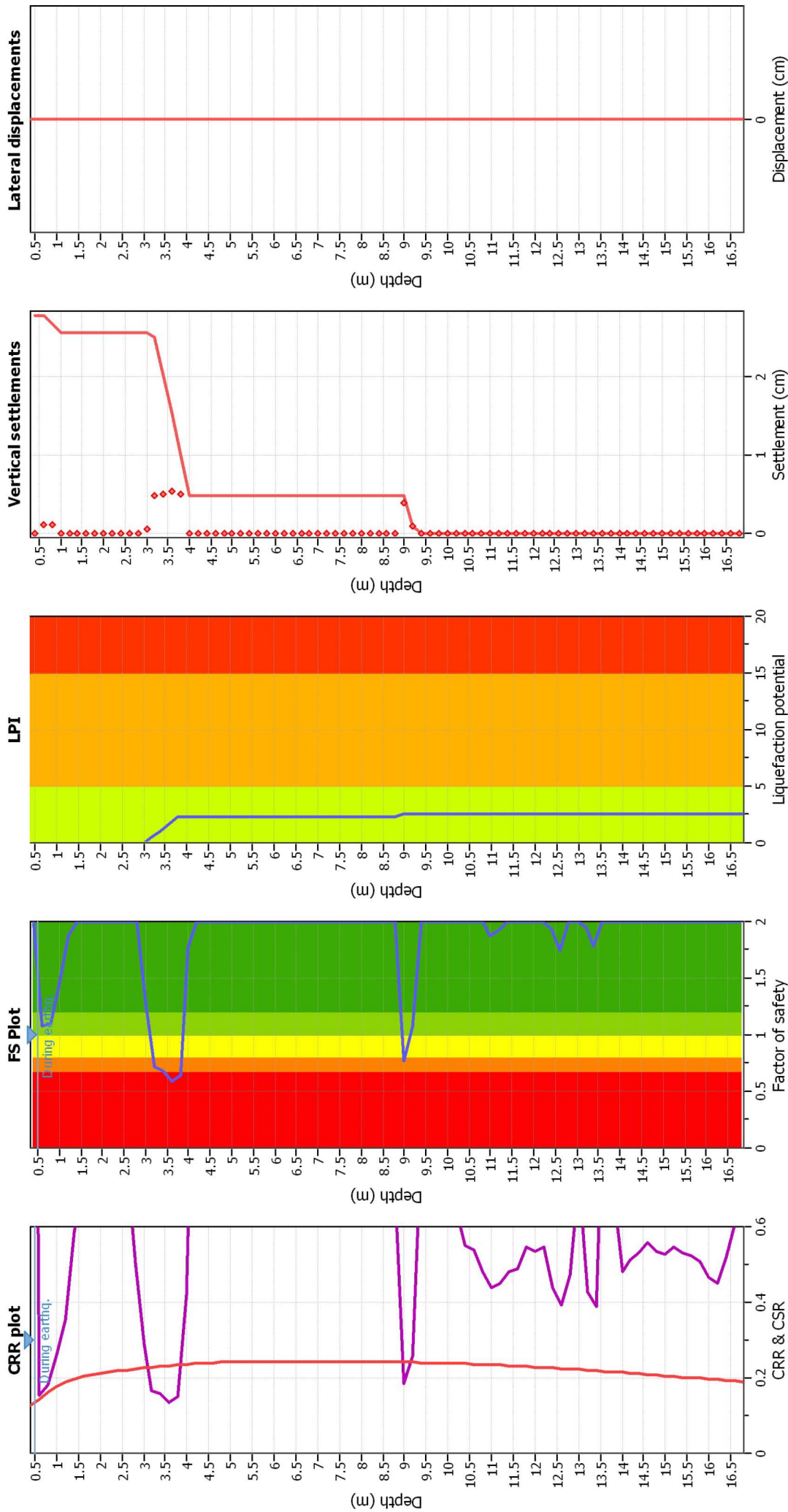
F.S. color scheme

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- Liquefaction and no liq. are equally likely
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LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on I _c value	K _σ applied:	No
Earthquake magnitude M _w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.33	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Limit depth:	N/A
Depth to water table (earthq.):	0.50 m	Fill weight:	N/A
Average results interval:	3	Transition detect. applied:	No
I _c cut-off value:	2.60	K _σ applied:	No
Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Use fill:	No	Limit depth applied:	No
Fill height:	N/A	Limit depth:	N/A

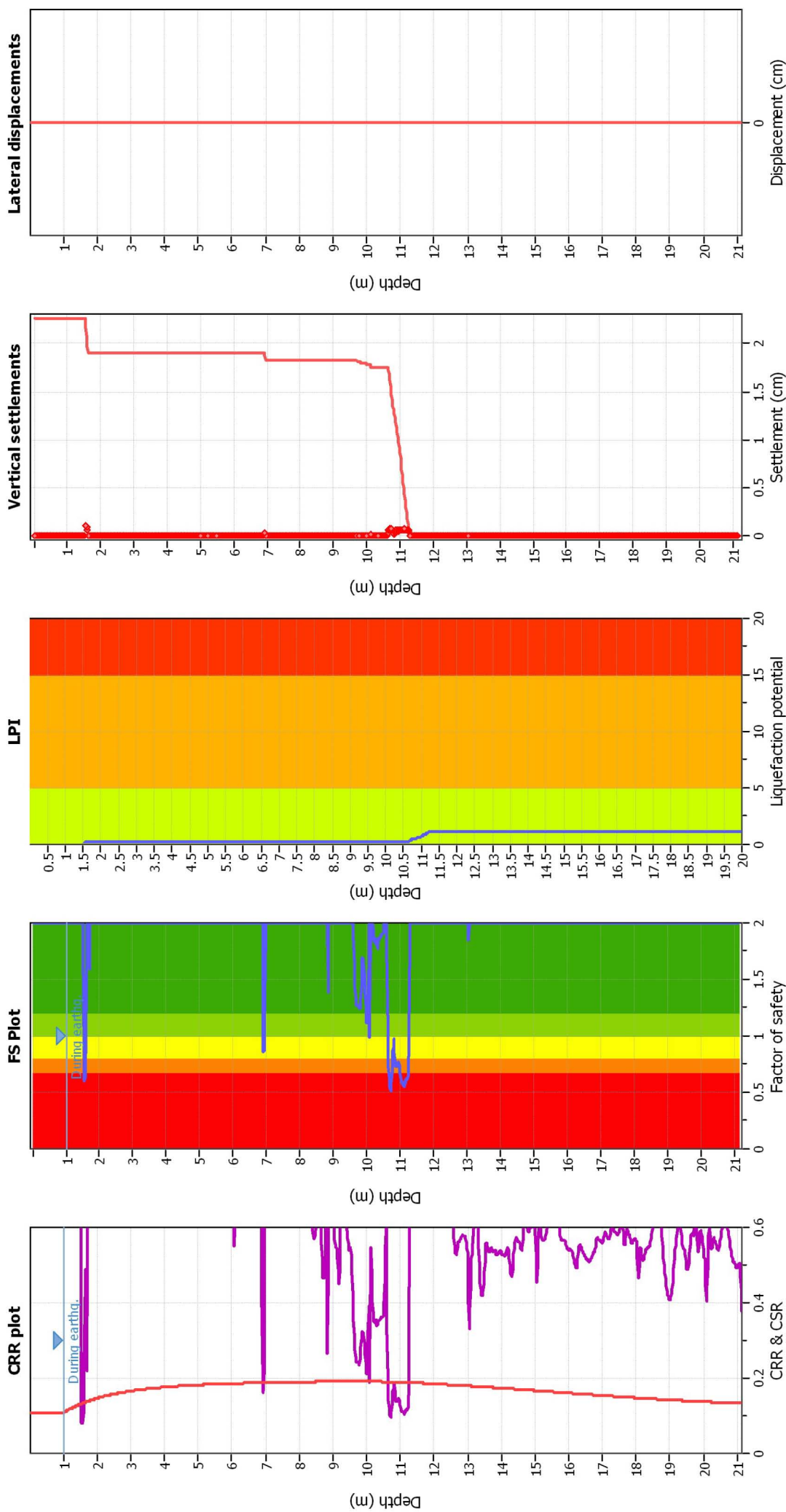
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Light Green	Unlike to liquefy
Dark Green	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Light Green	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 I_c cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

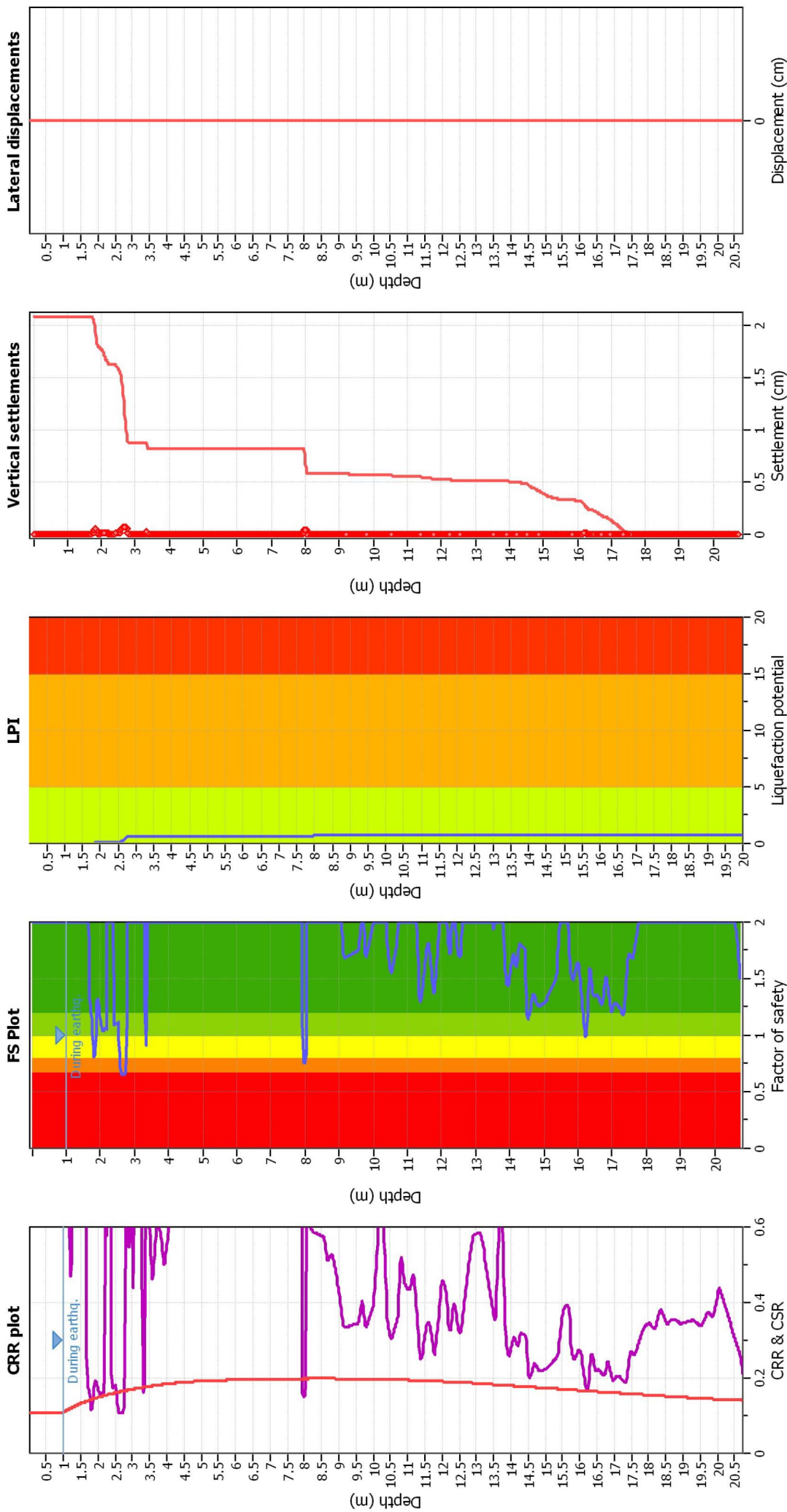
F.S. color scheme

■ Almost certain it will liquefy
■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlikely to liquefy
■ Almost certain it will not liquefy

LPI color scheme

■ Very high risk
■ High risk
■ Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 I_c cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

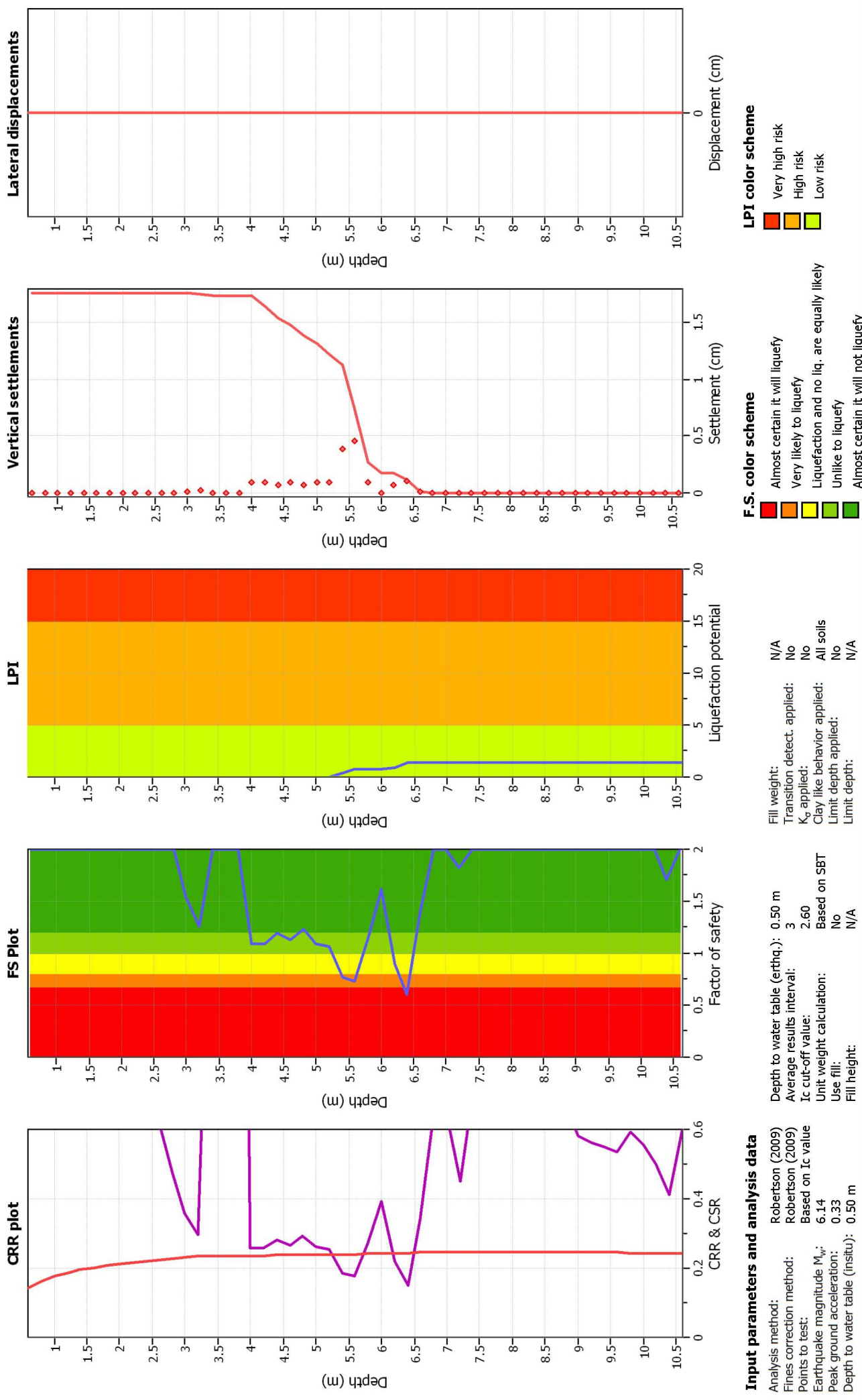
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

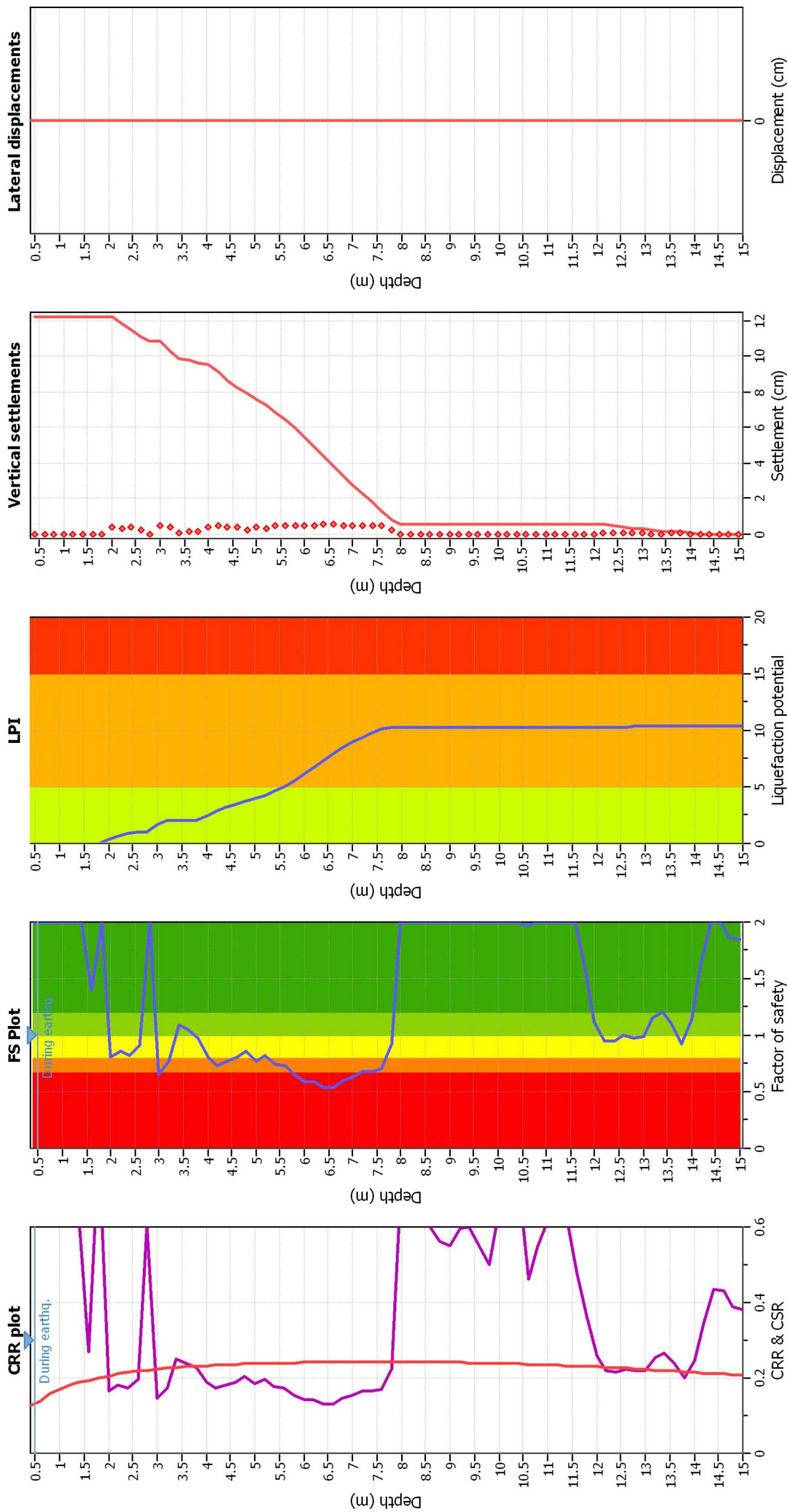
LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m

Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 Ic cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

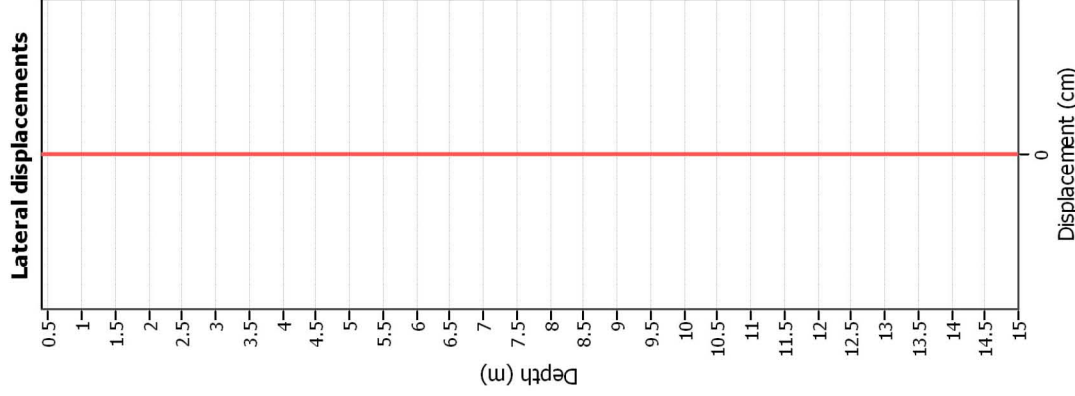
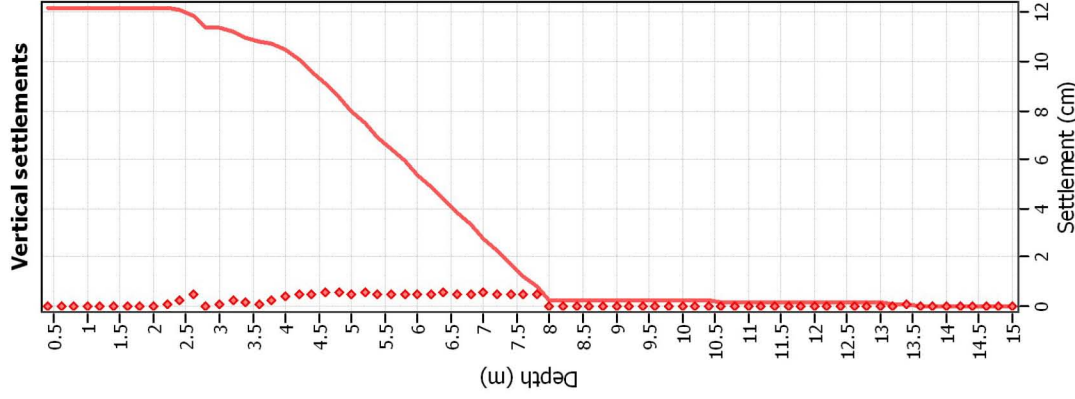
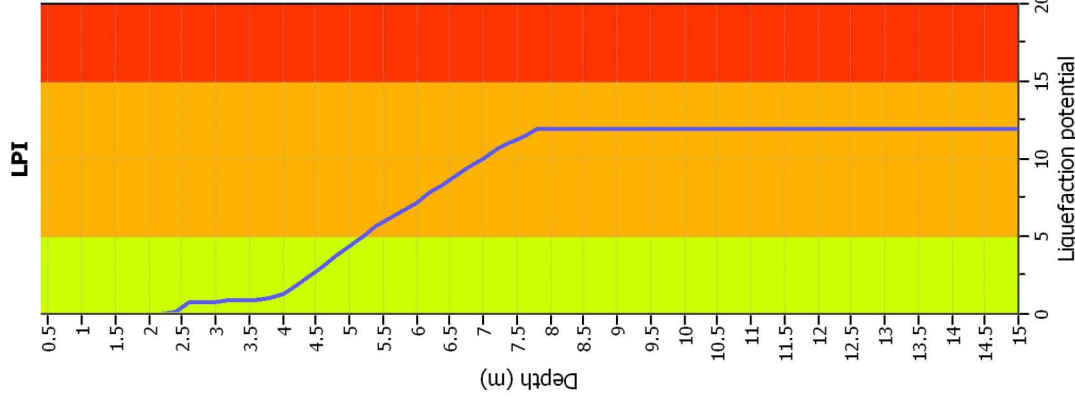
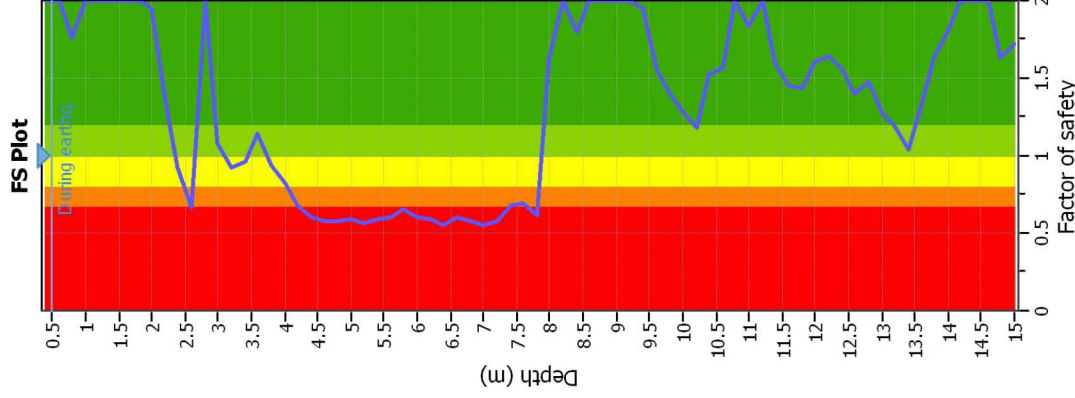
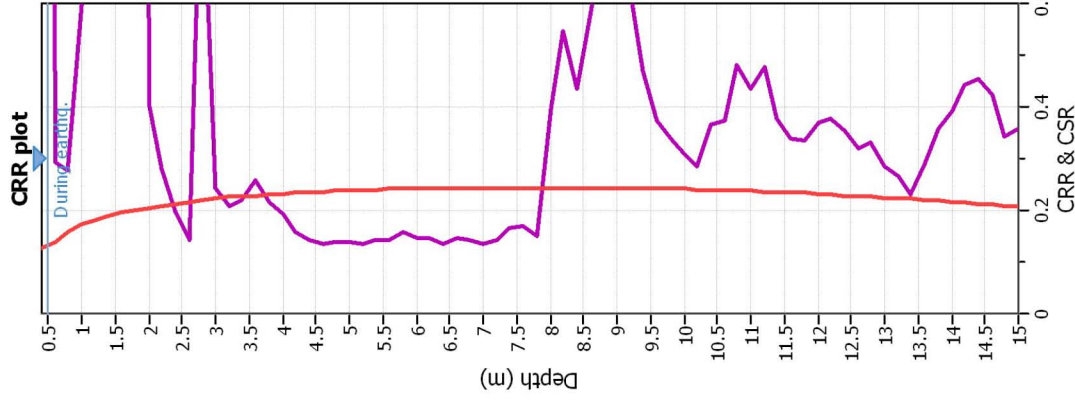
F.S. color scheme

■ Almost certain it will liquefy
■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlike to liquefy
■ Almost certain it will not liquefy

LPI color scheme

■ Very high risk
■ High risk
■ Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w: 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m

Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 I_c cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_σ applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

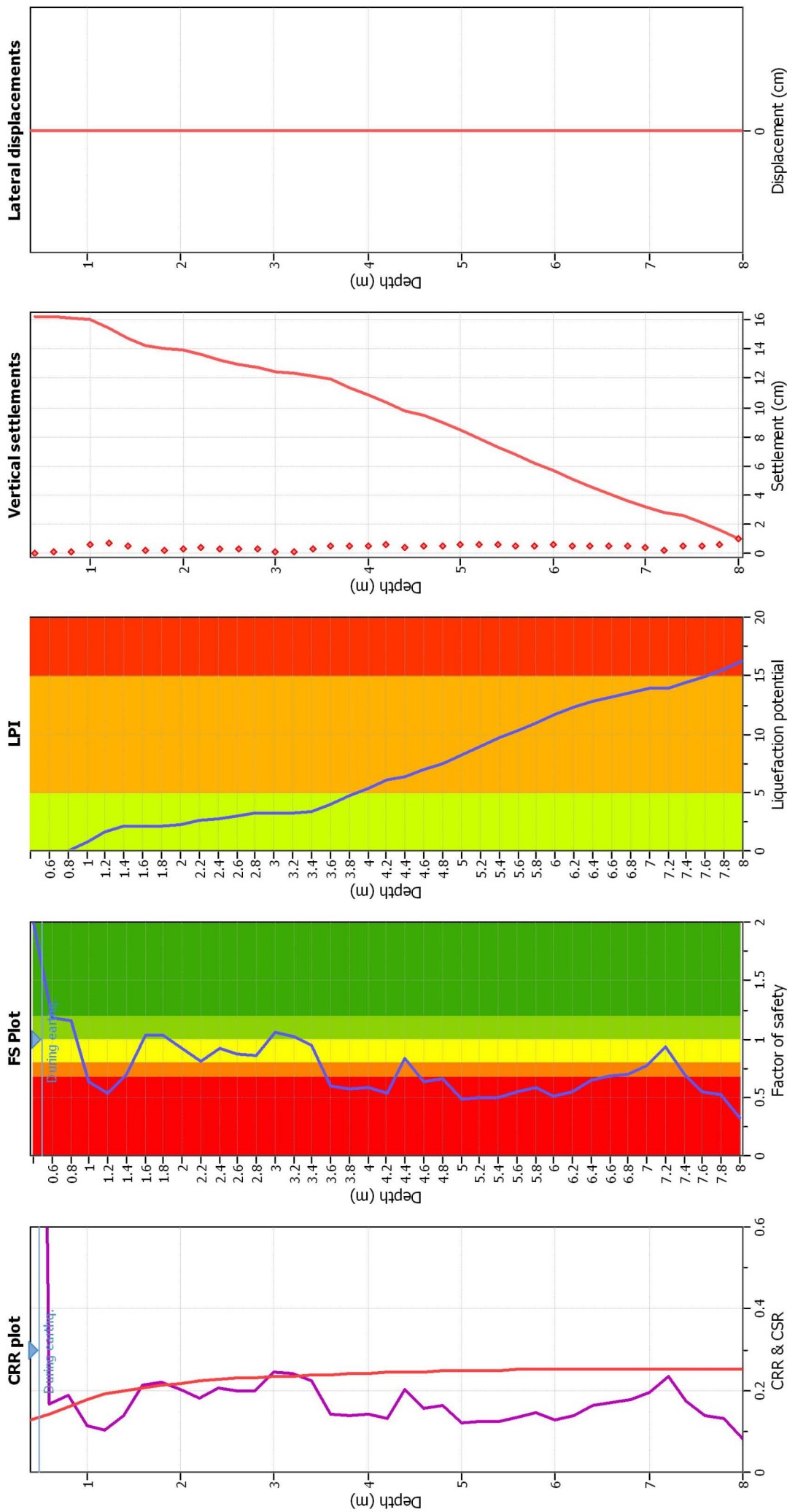
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)
Fines correction method:	Robertson (2009)
Points to test:	Based on Ic value
Earthquake magnitude M_w :	6.14
Peak ground acceleration:	0.33
Depth to water table (insitu):	0.50 m
Depth to water table (earthq.):	0.50 m
Average results interval:	3
Ic cut-off value:	2.60
Unit weight calculation:	Based on SBT
Use fill:	No
Fill height:	N/A
Transition detect. applied:	No
K_{σ} applied:	No
Clay like behavior applied:	All soils
Limit depth applied:	No
Limit depth:	N/A
Fill weight:	N/A

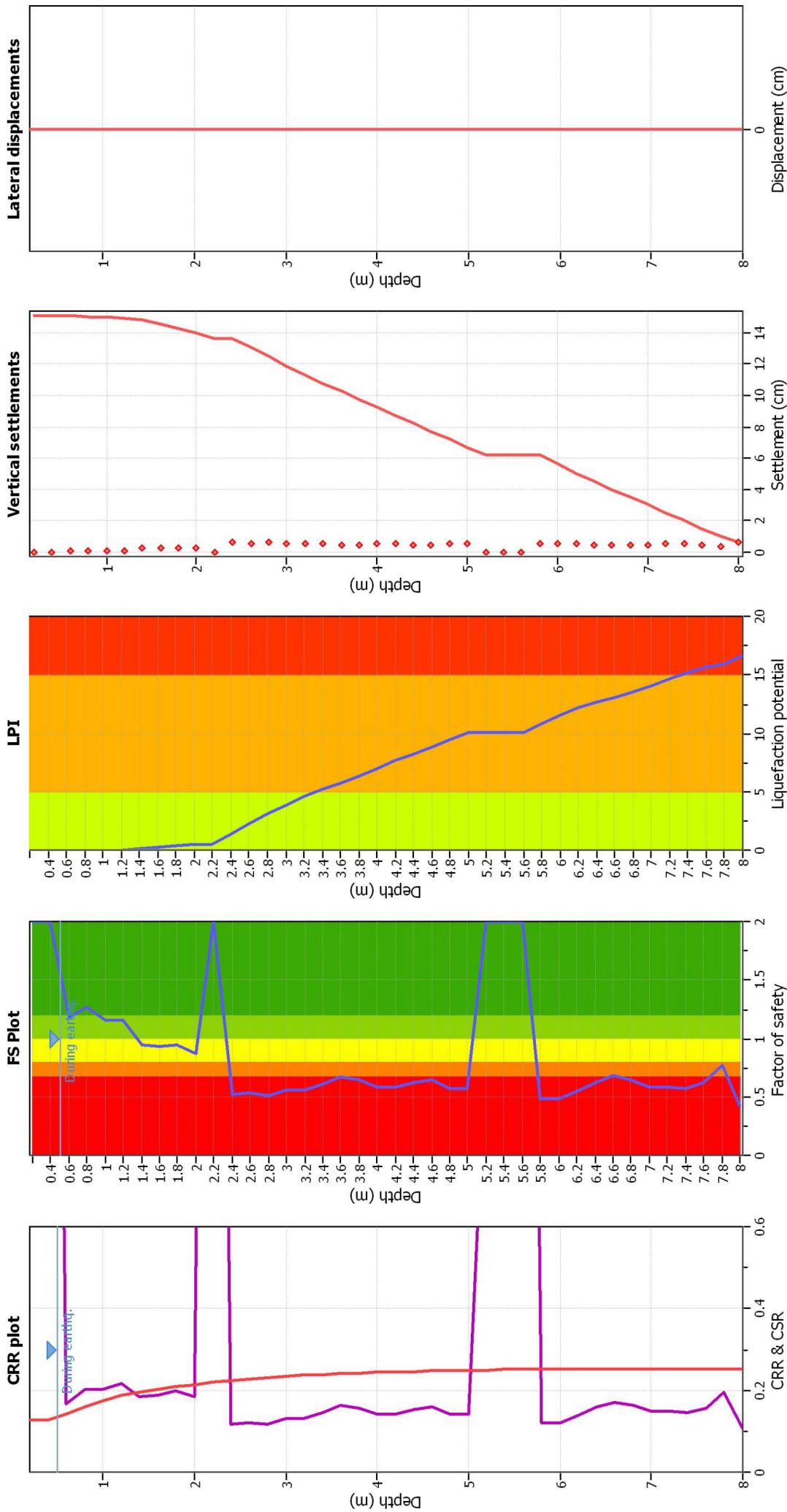
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Green	Unlike to liquefy
Dark Green	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on Ic value	K_{σ} applied:	No
Earthquake magnitude M_w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.33	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Limit depth:	N/A
Depth to water table (earthq.):	0.50 m		
Average results interval:	3		
Ic cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		

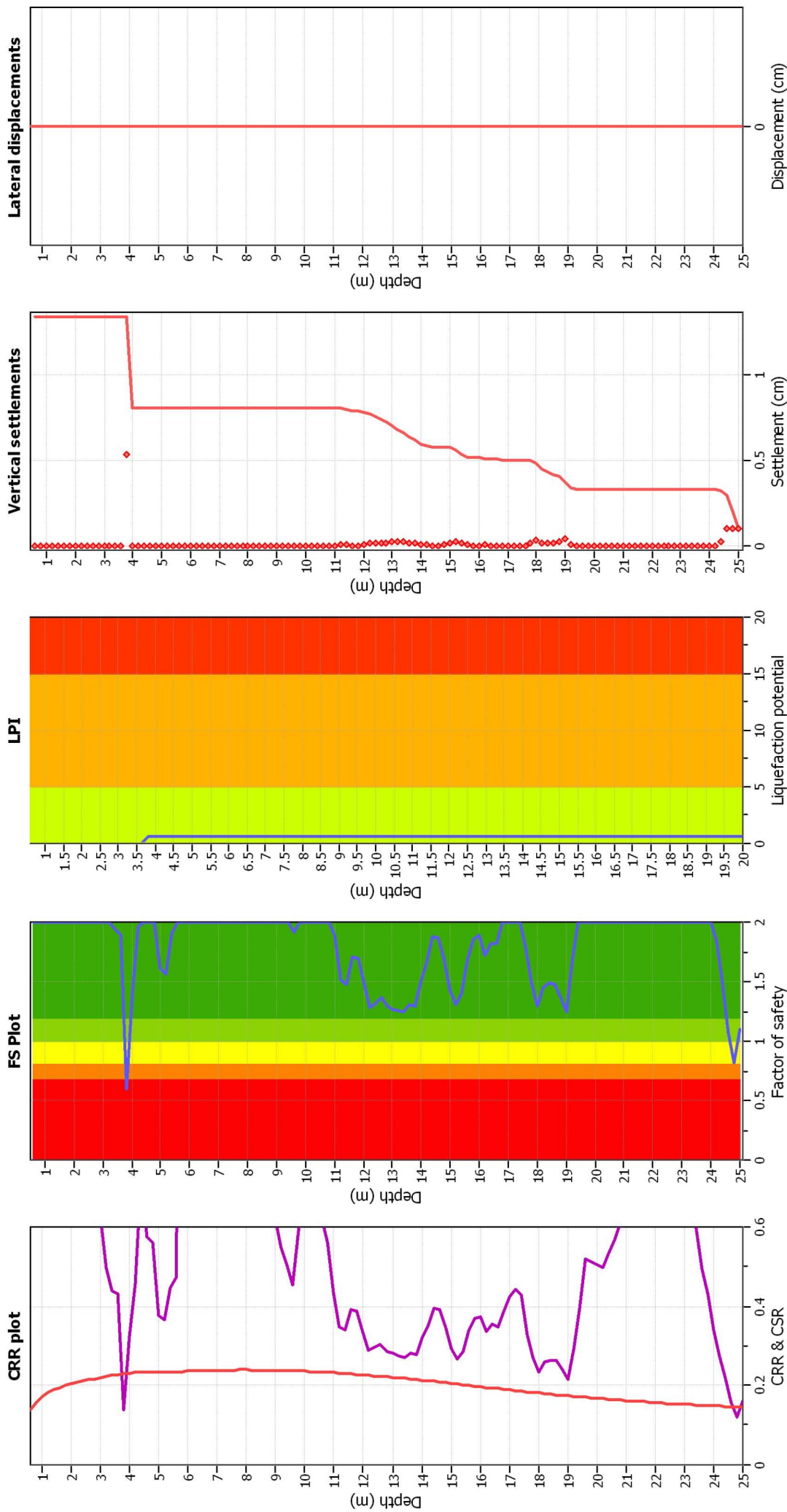
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Light Green	Unlike to liquefy
Dark Green	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Light Green	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m

Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 Ic cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

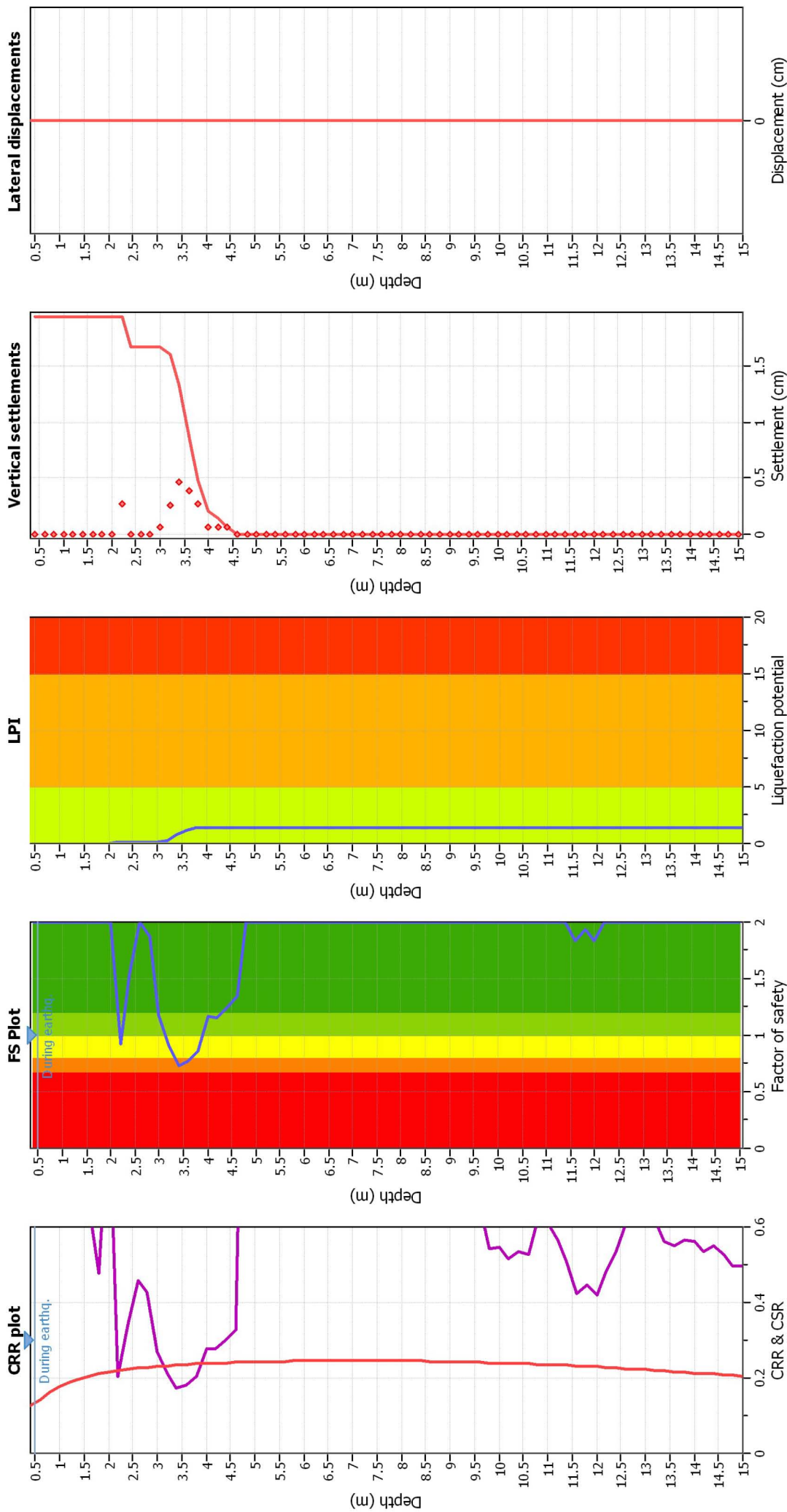
F.S. color scheme

Almost certain it will liquefy
 Very likely to liquefy
 Liquefaction and no liq. are equally likely
 Unlikely to liquefy
 Almost certain it will not liquefy

LPI color scheme

Very high risk
 High risk
 Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (earthq.):	0.50 m
Fines correction method:	Robertson (2009)	Average results interval:	3
Points to test:	Based on Ic value	Ic cut-off value:	2.60
Earthquake magnitude M_w :	6.14	Unit weight calculation:	Based on SBT
Peak ground acceleration:	0.33	Use fill:	No
Depth to water table (insitu):	0.50 m	Fill height:	N/A
Fill weight:	N/A	Transition detect. applied:	N/A
K_{σ} applied:	No	K_{σ} applied:	No
Clay like behavior applied:	All soils	Limit depth applied:	No
Limit depth:	N/A	Limit depth:	N/A

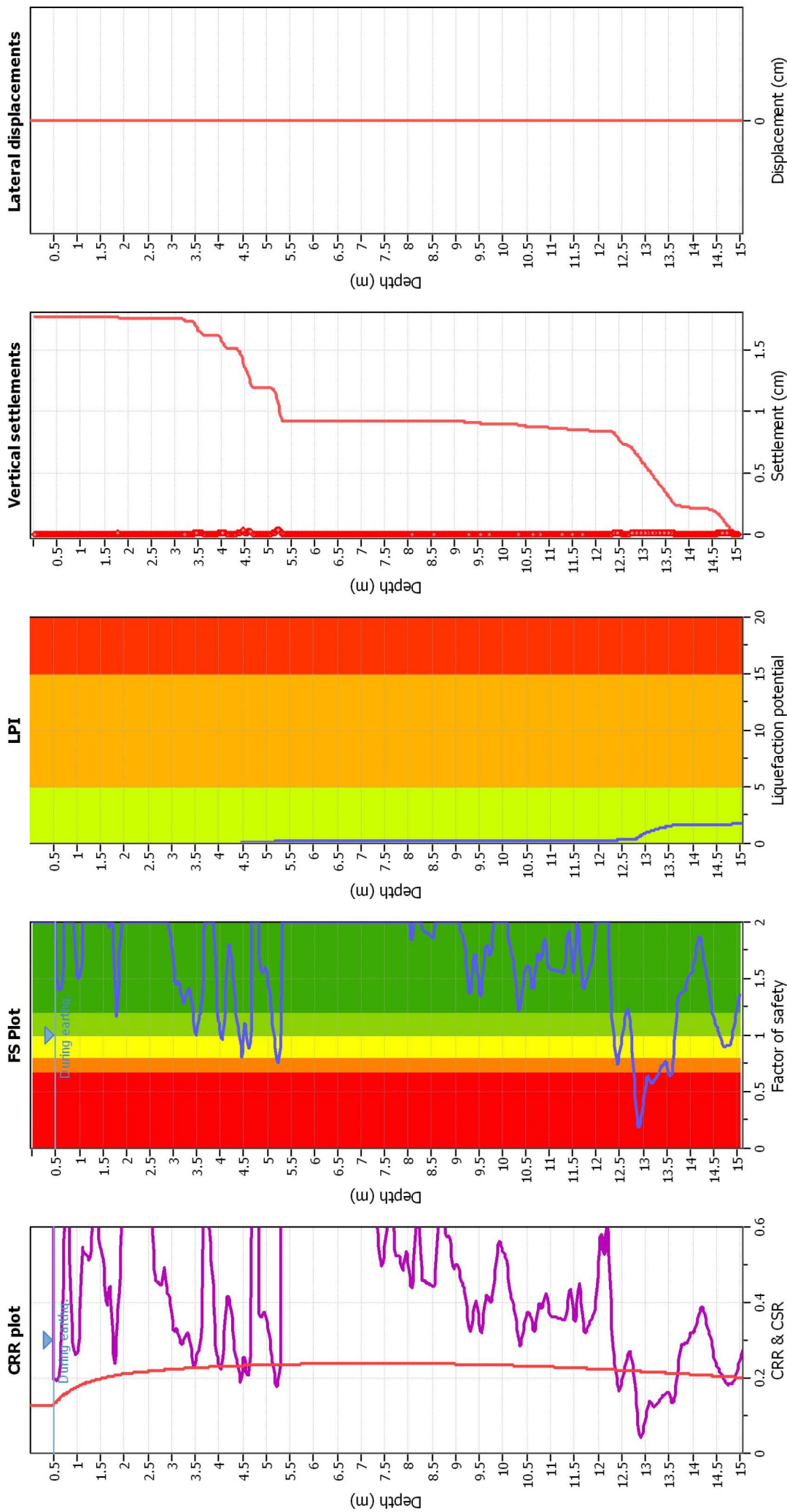
F.S. color scheme

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LPI color scheme

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- High risk
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Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m

Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 Ic cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

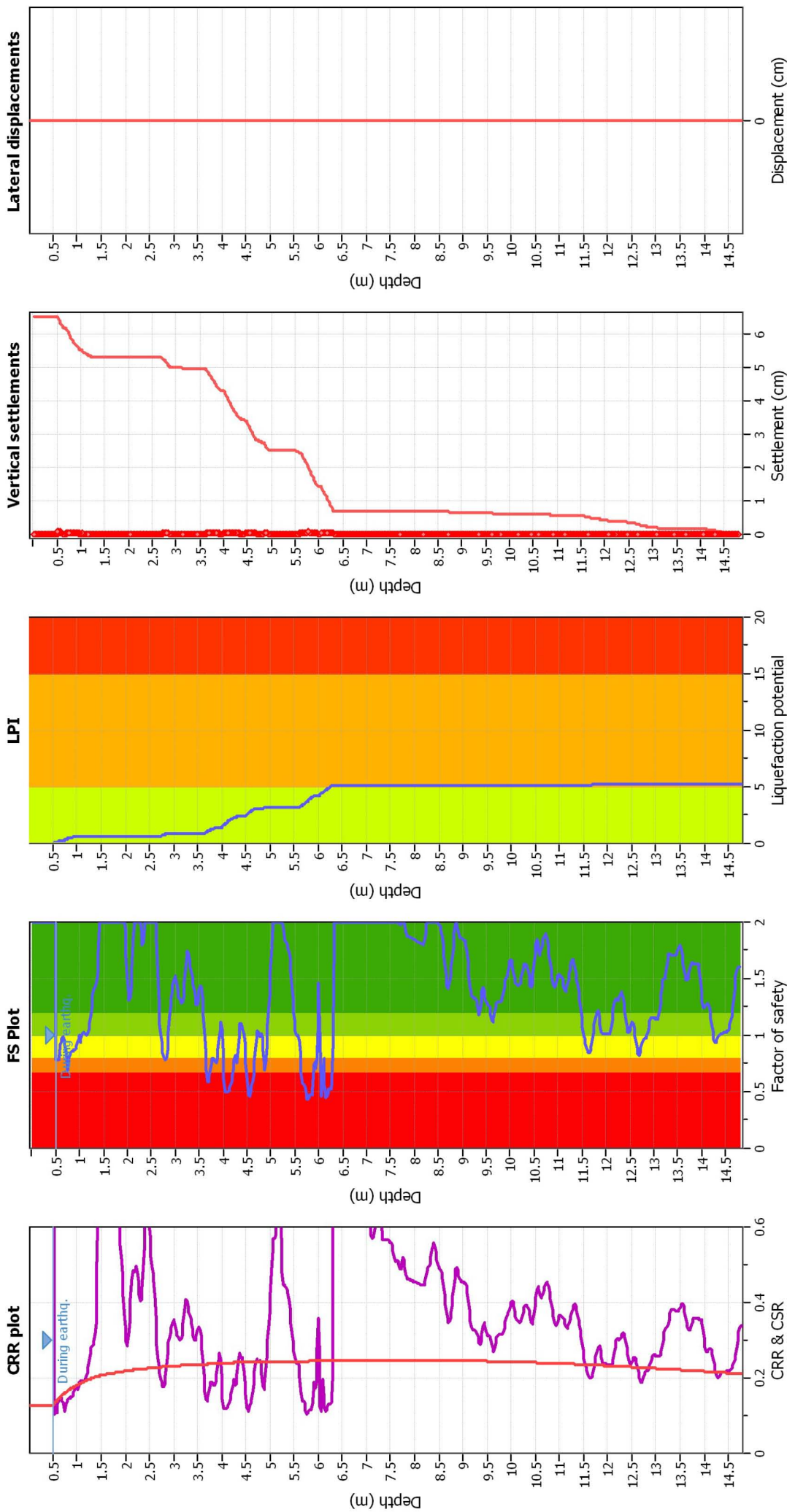
F.S. color scheme

Almost certain it will liquefy
 Very likely to liquefy
 Liquefaction and no liq. are equally likely
 Unlikely to liquefy
 Almost certain it will not liquefy

LPI color scheme

Very high risk
 High risk
 Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m
 Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 I_c cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A
 Factor of safety: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

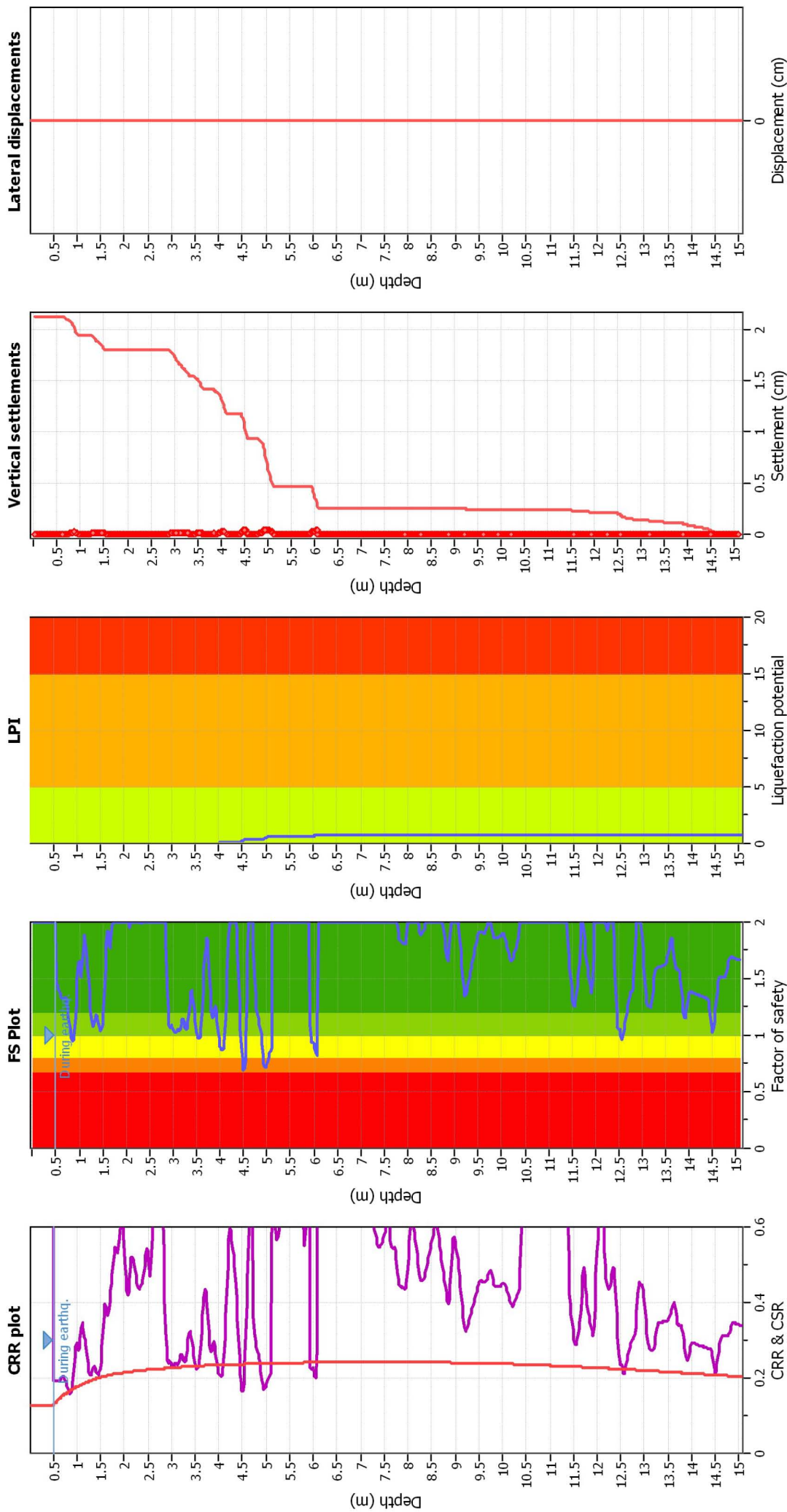
F.S. color scheme

■ Almost certain it will liquefy
■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlikely to liquefy
■ Almost certain it will not liquefy

LPI color scheme

■ Very high risk
■ High risk
■ Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w: 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m

Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 I_c cut-off value: Based on SBT
 Unit weight calculation: No
 Use fill: N/A
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_σ applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

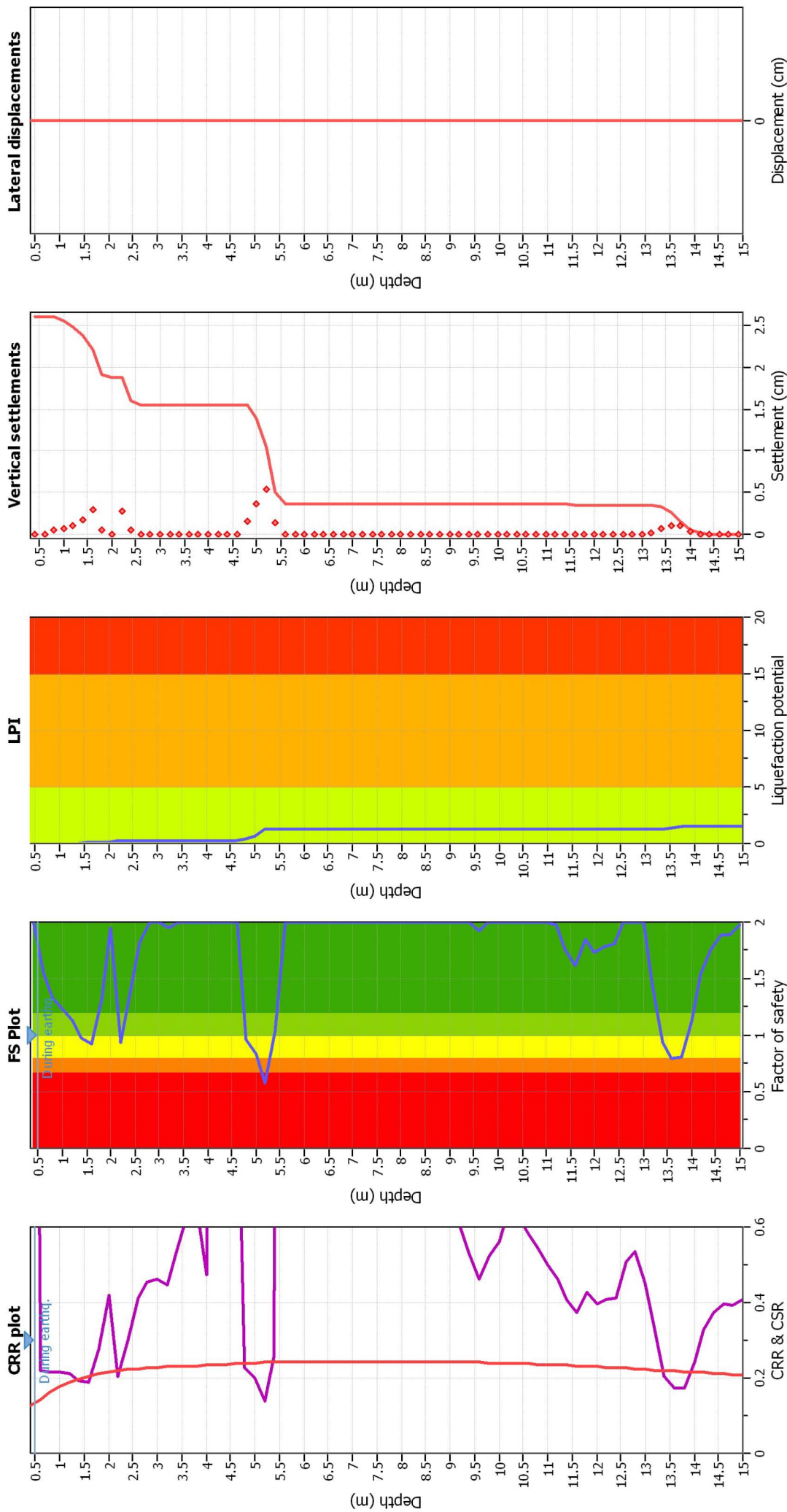
F.S. color scheme

Almost certain it will liquefy
 Very likely to liquefy
 Liquefaction and no liq. are equally likely
 Unlikely to liquefy
 Almost certain it will not liquefy

LPI color scheme

Very high risk
 High risk
 Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m

Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 Ic cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

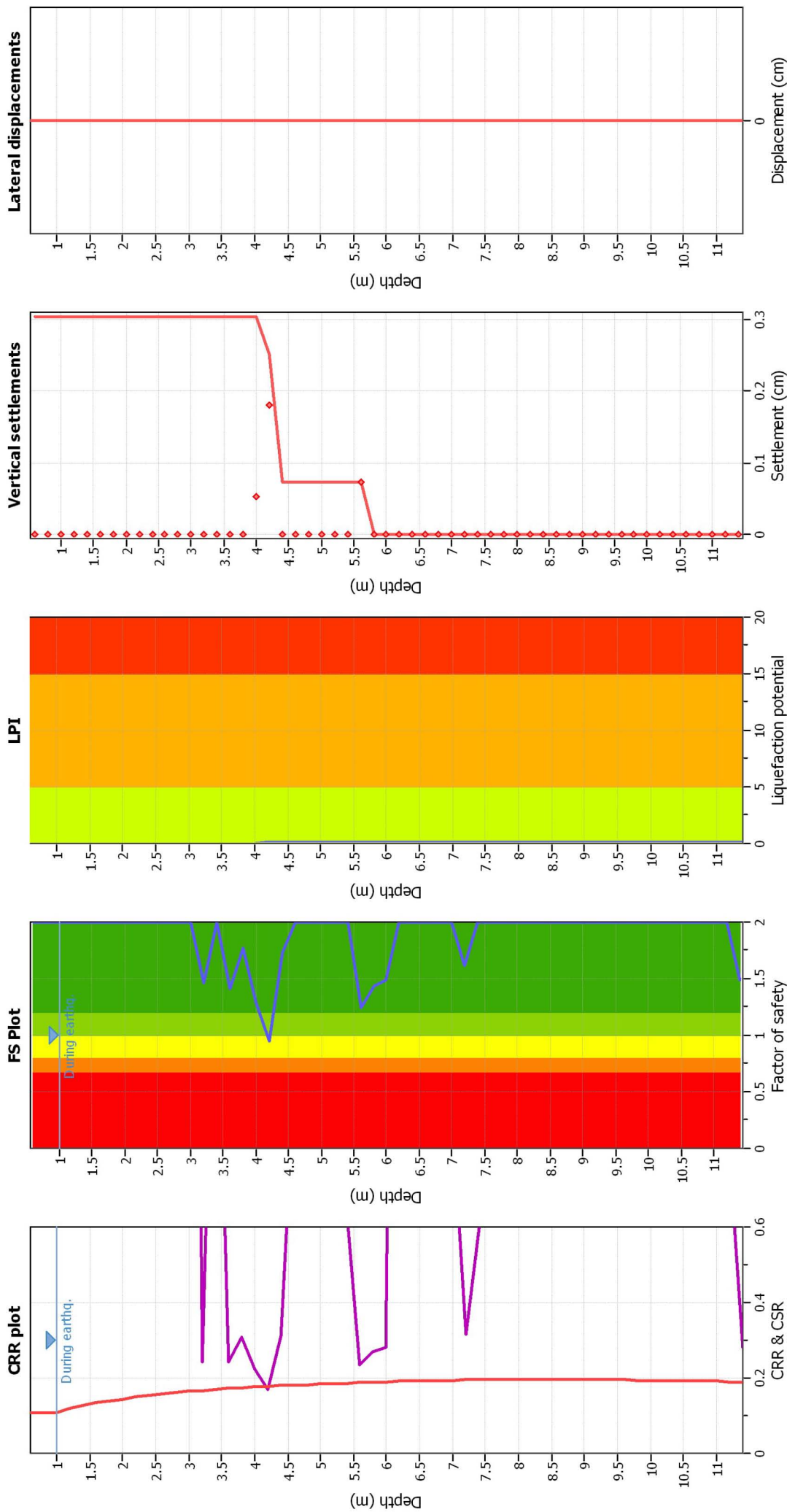
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 I_c cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

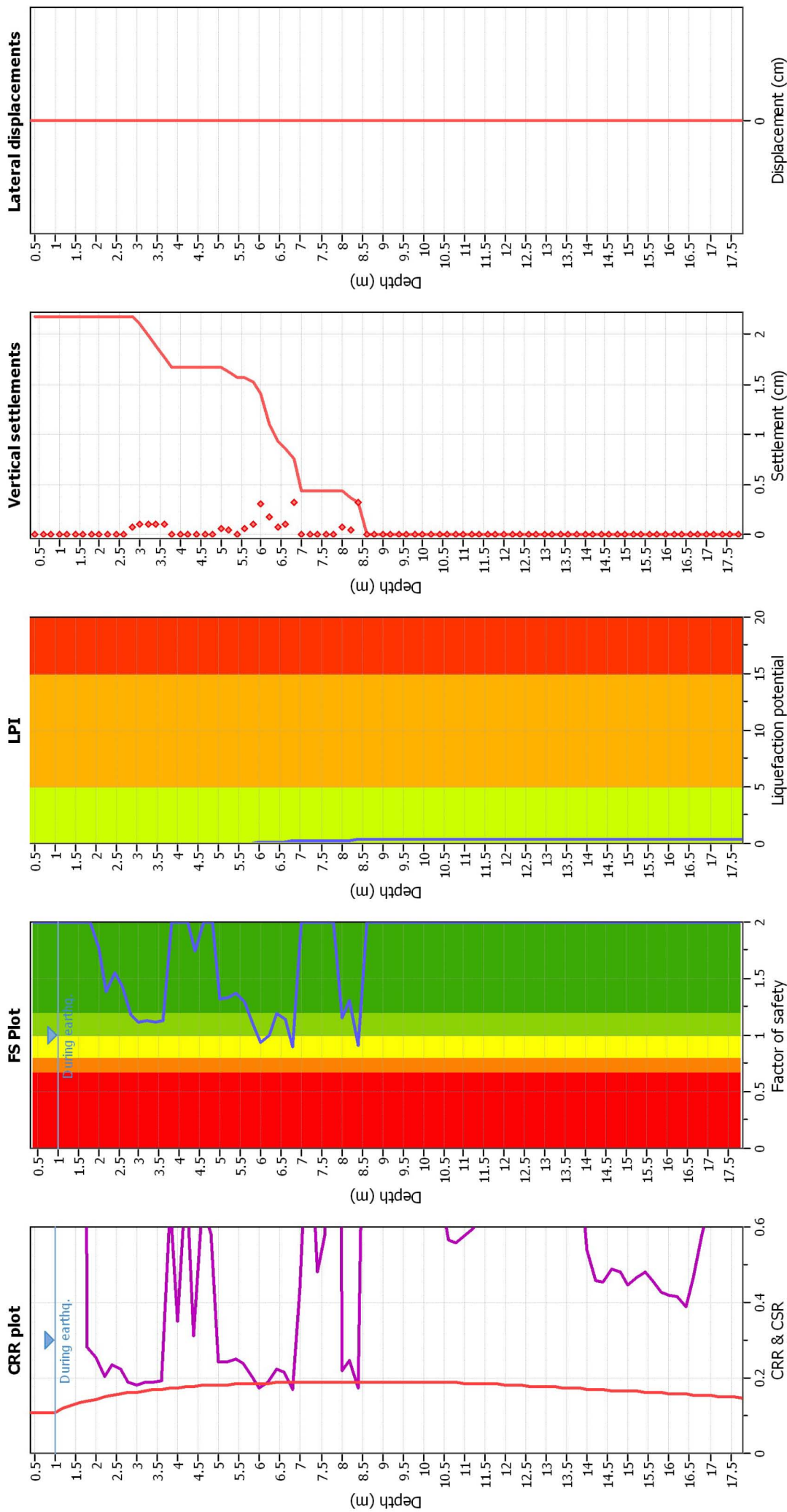
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 I_c cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

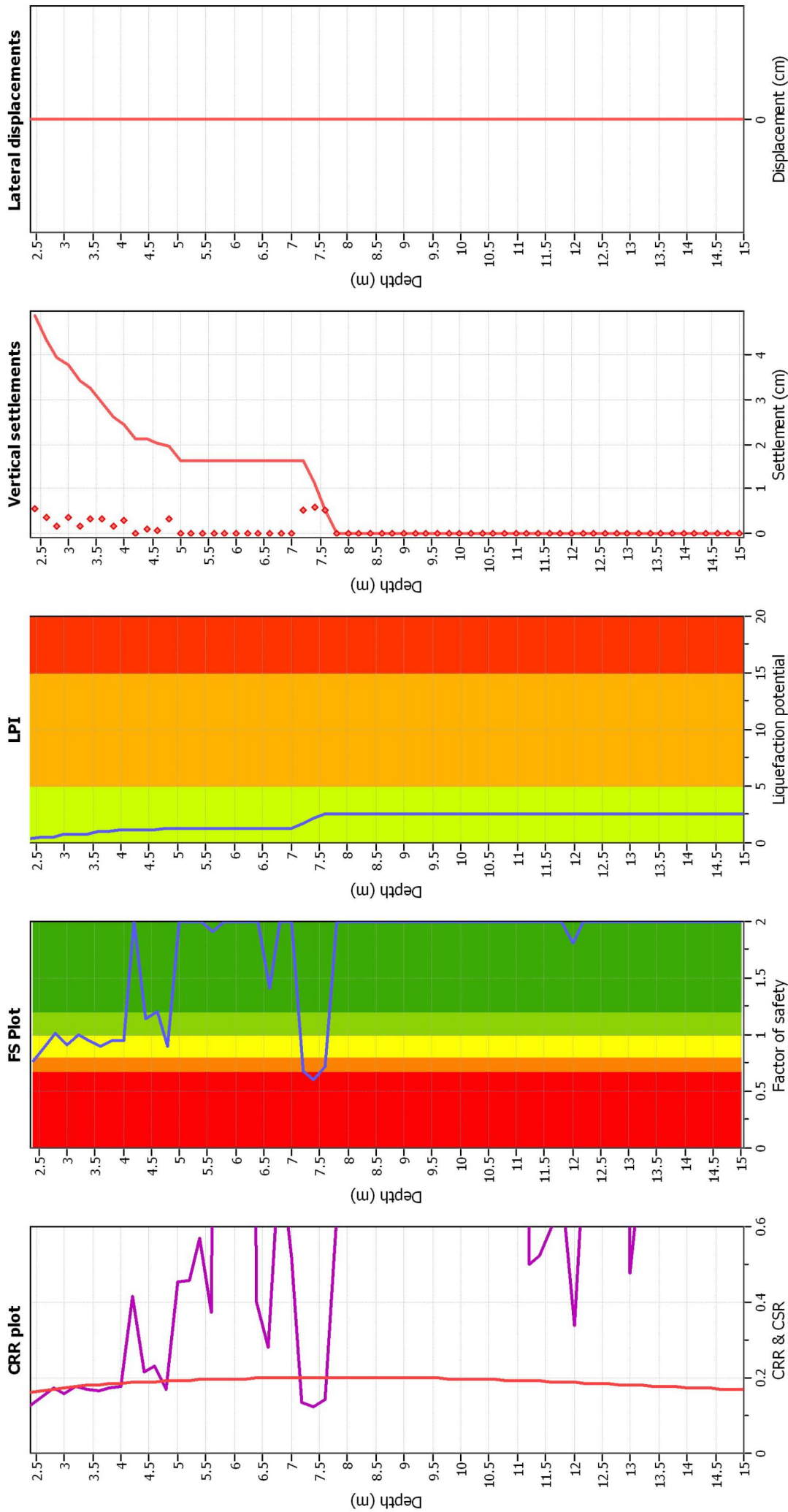
F.S. color scheme

■ Almost certain it will liquefy
■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlikely to liquefy
■ Almost certain it will not liquefy

LPI color scheme

■ Very high risk
■ High risk
■ Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 I_c cut-off value: Based on SBT
 Unit weight calculation: No
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

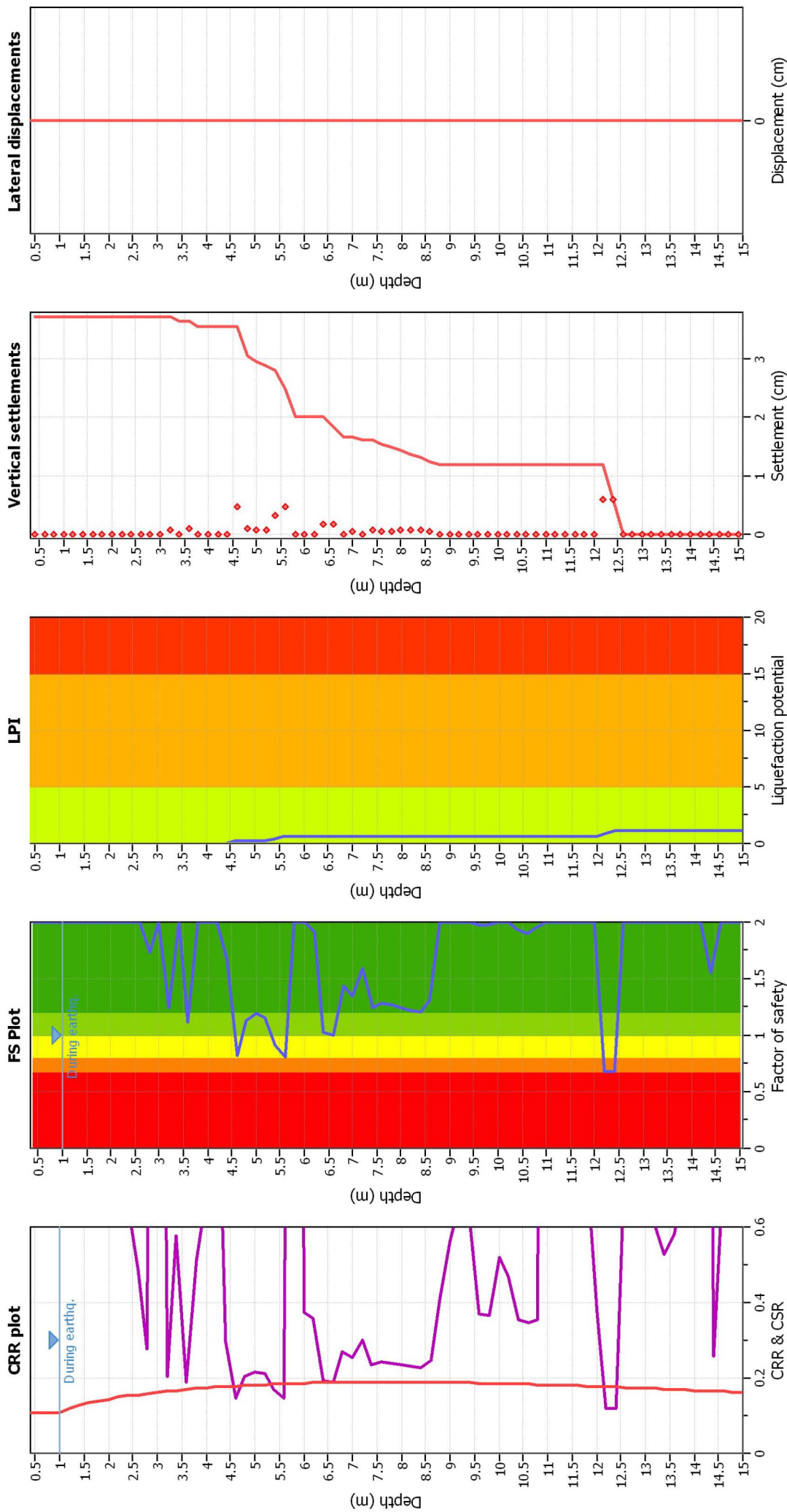
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 Ic cut-off value: Based on SBT
 Unit weight calculation: No
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

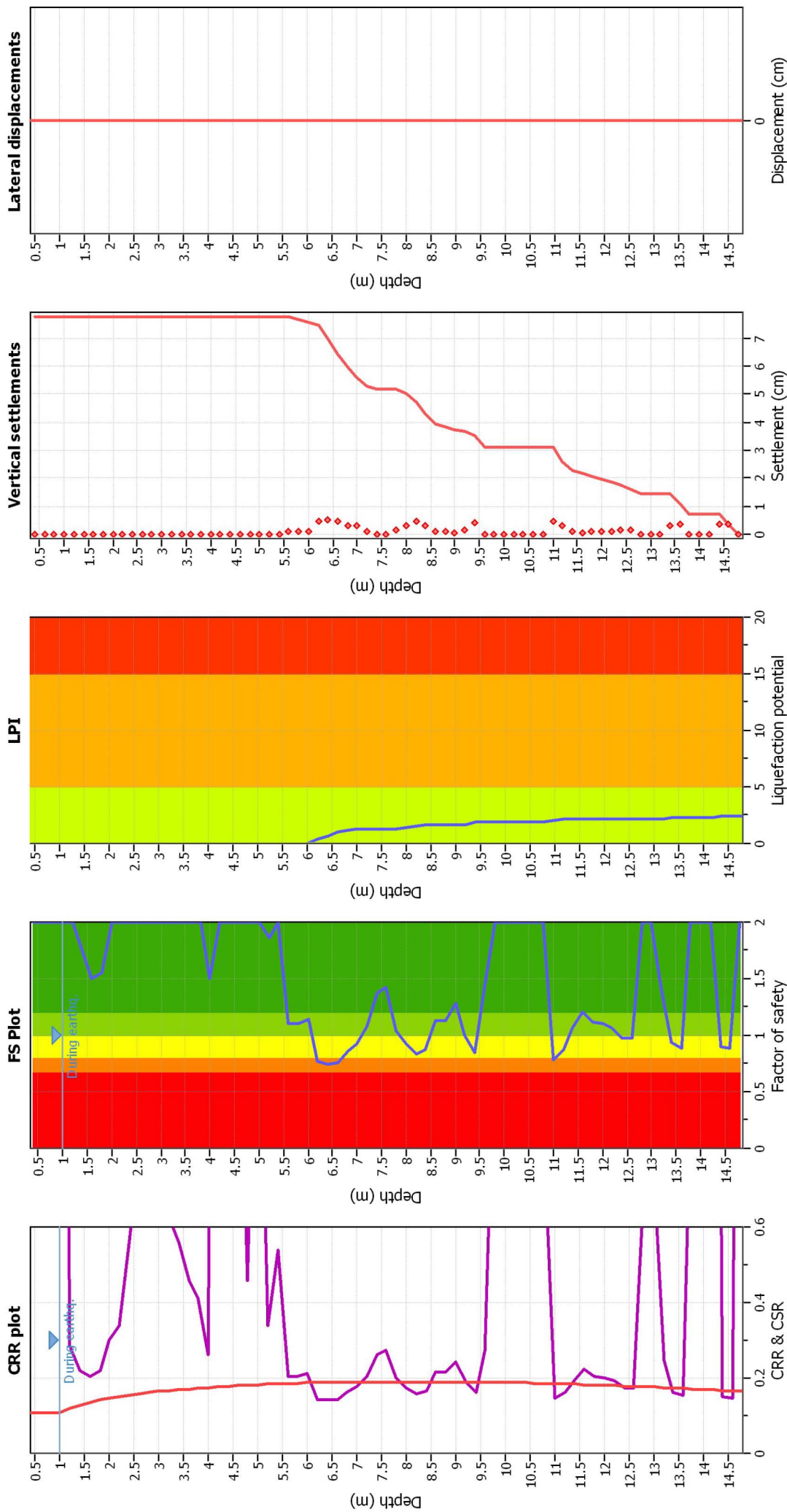
F.S. color scheme

■ Almost certain it will liquefy
■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlikely to liquefy
■ Almost certain it will not liquefy

LPI color scheme

■ Very high risk
■ High risk
■ Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on Ic value	K_{σ} applied:	No
Earthquake magnitude M_w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.28	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Limit depth:	N/A
Depth to water table (earthq.):	1.00 m		
Average results interval:	3		
Ic cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		

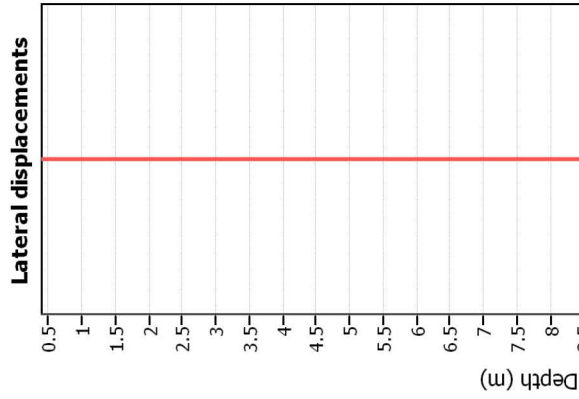
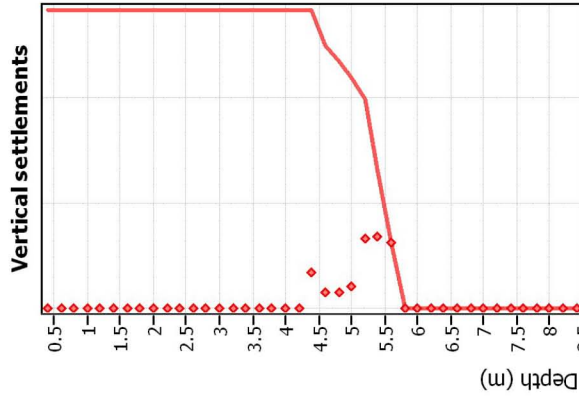
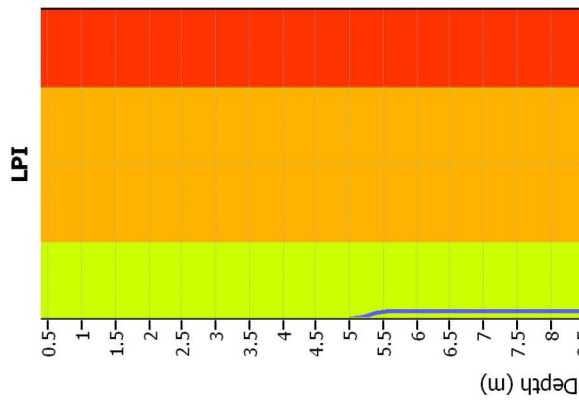
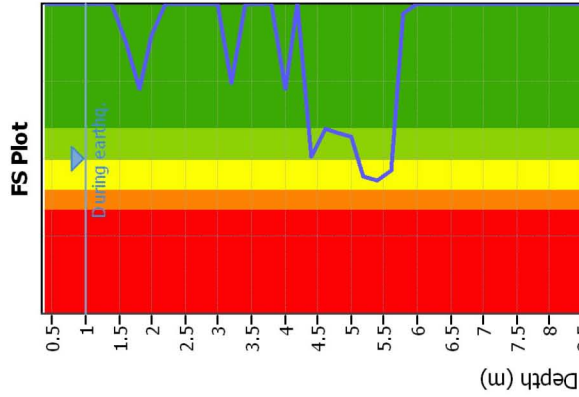
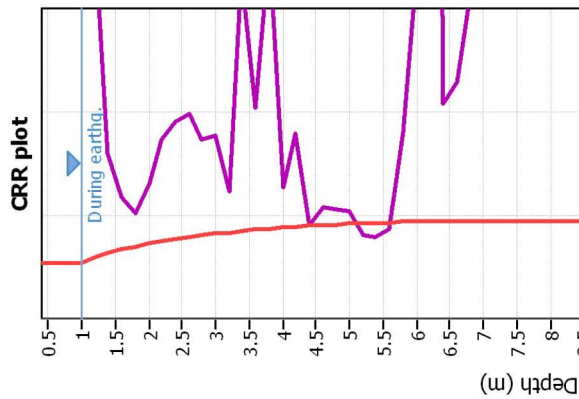
F.S. color scheme

■	Almost certain it will liquefy
■	Very likely to liquefy
■	Liquefaction and no liq. are equally likely
■	Unlikely to liquefy
■	Almost certain it will not liquefy

LPI color scheme

■	Very high risk
■	High risk
■	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 I_c cut-off value: Based on SBT
 Unit weight calculation: No
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

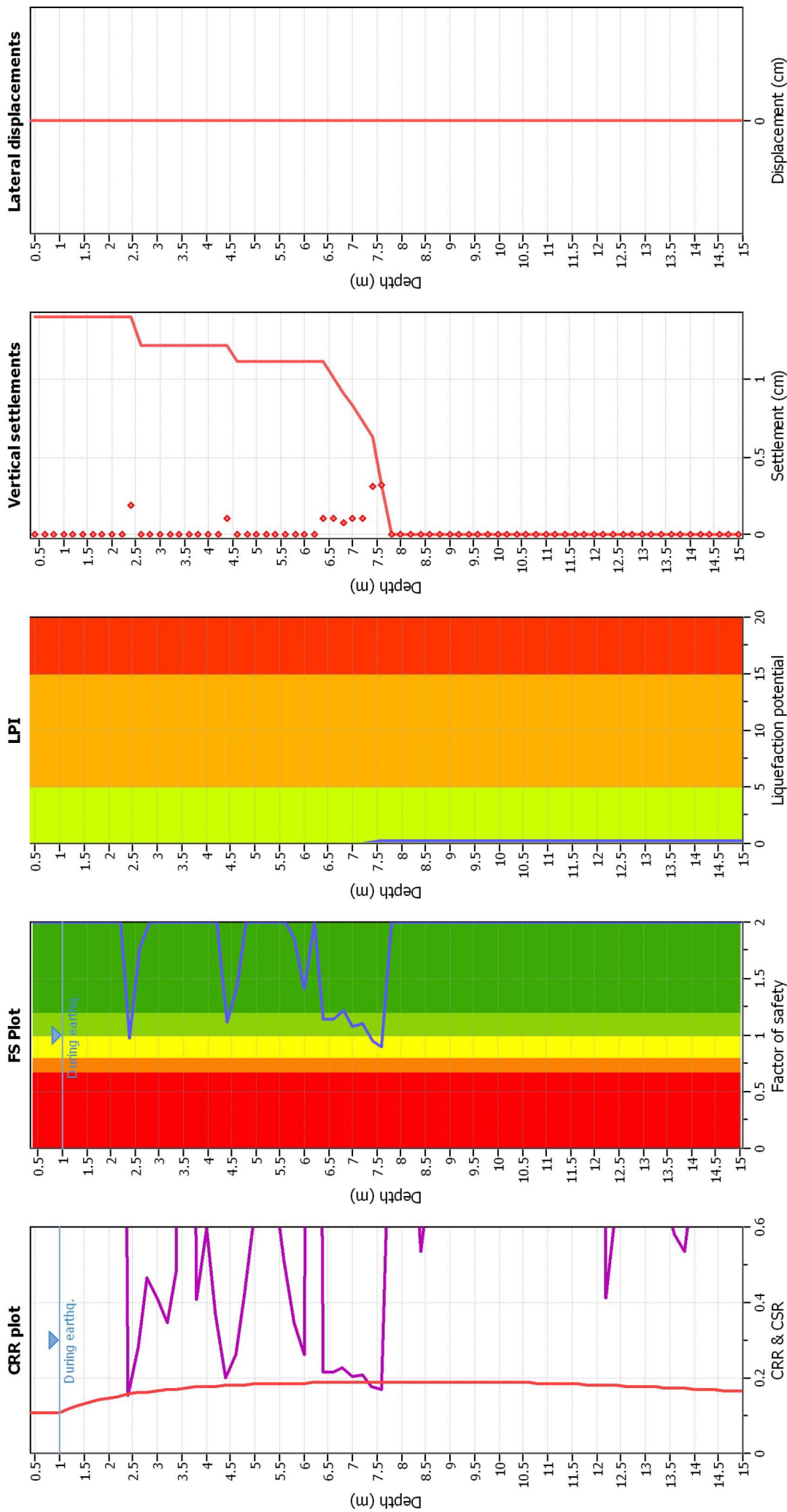
F.S. color scheme

Almost certain it will liquefy
 Very likely to liquefy
 Liquefaction and no liq. are equally likely
 Unlikely to liquefy
 Almost certain it will not liquefy

LPI color scheme

Very high risk
 High risk
 Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 Ic cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

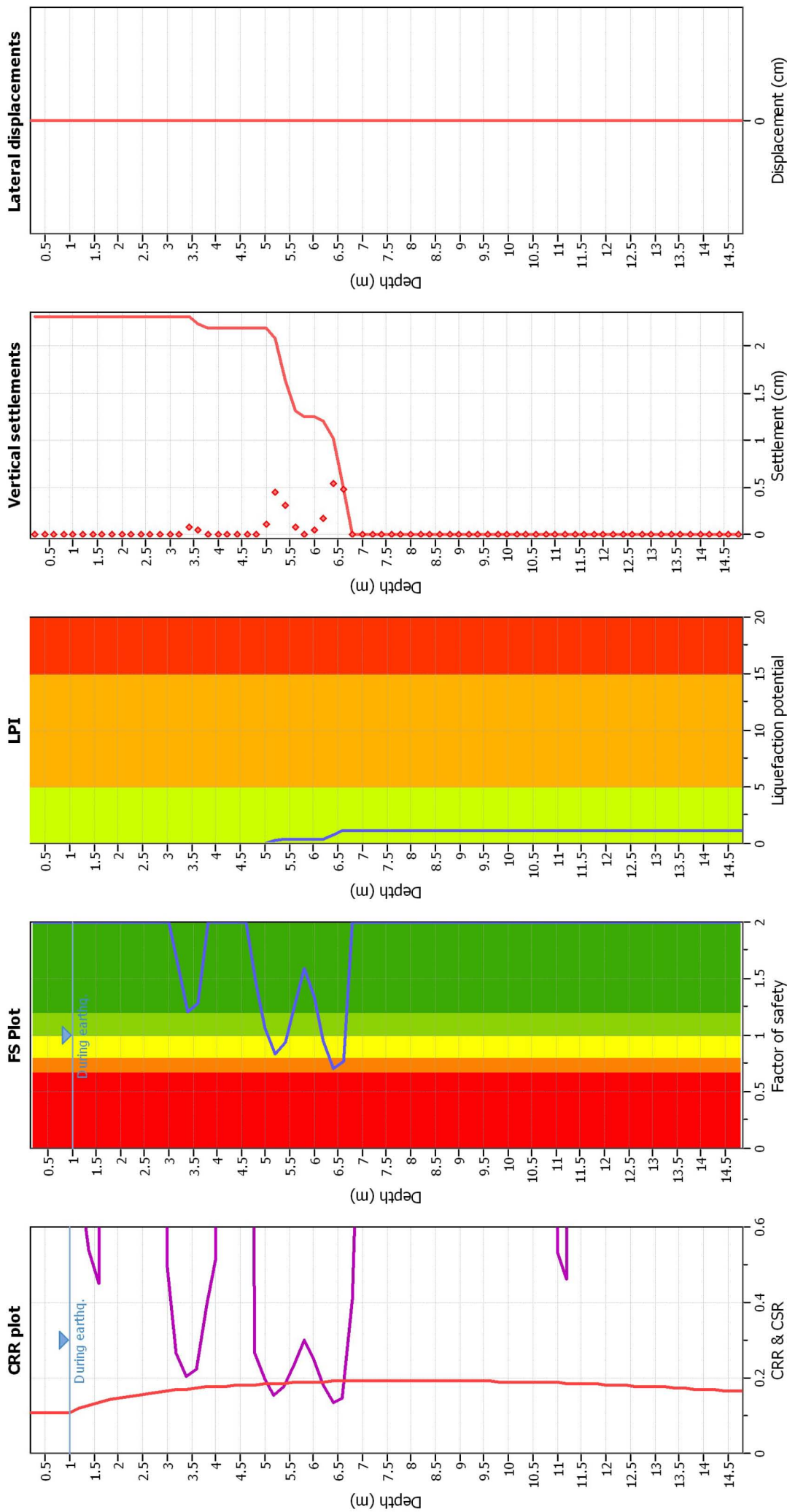
F.S. color scheme

■ Almost certain it will liquefy
■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlikely to liquefy
■ Almost certain it will not liquefy

LPI color scheme

■ Very high risk
■ High risk
■ Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 I_c cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

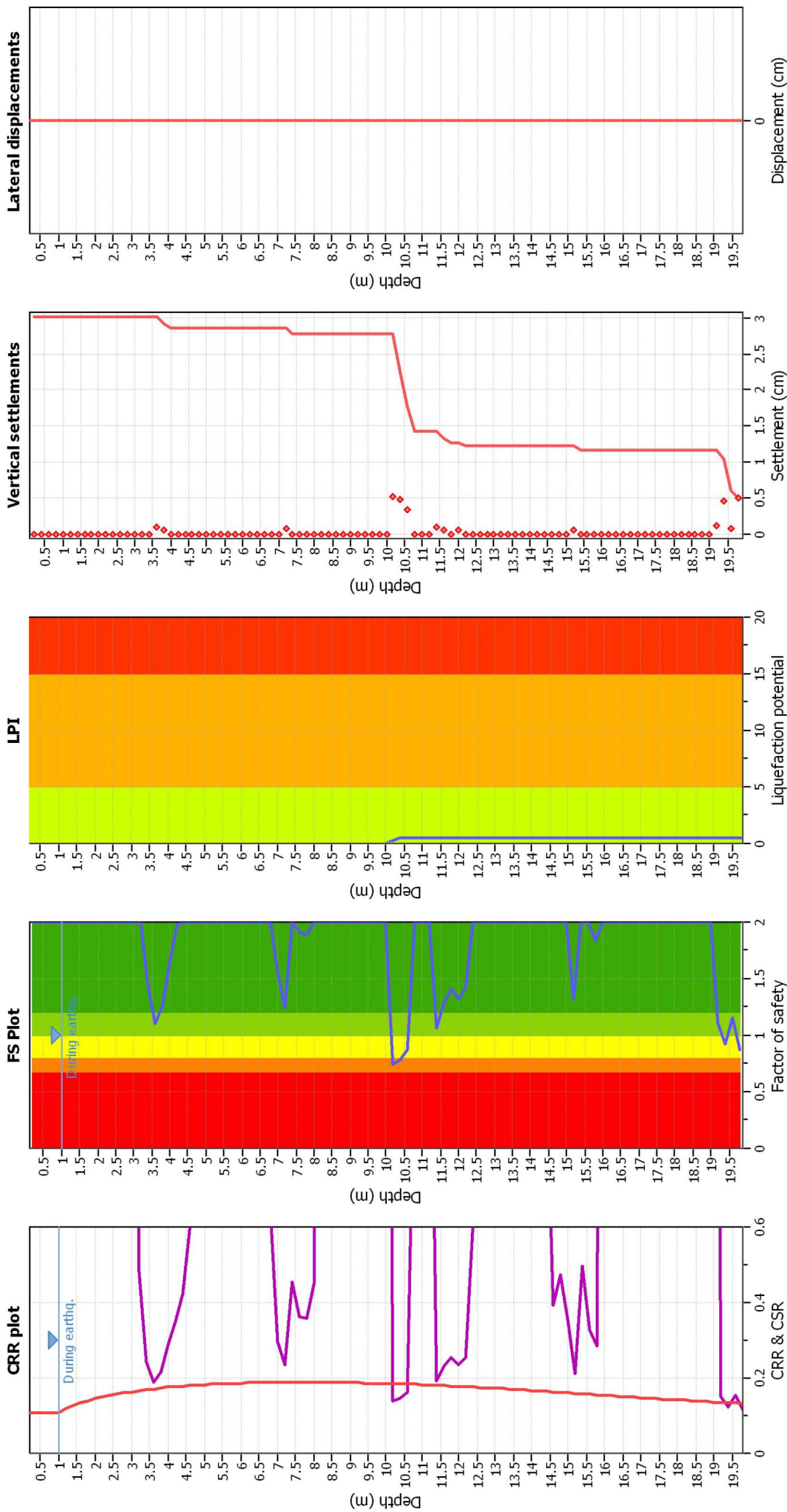
F.S. color scheme

■ Almost certain it will liquefy
■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlikely to liquefy
■ Almost certain it will not liquefy

LPI color scheme

■ Very high risk
■ High risk
■ Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on Ic value	K_{σ} applied:	No
Earthquake magnitude M_w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.28	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Limit depth:	N/A
Depth to water table (earthq.):	1.00 m		
Average results interval:	3		
Ic cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		

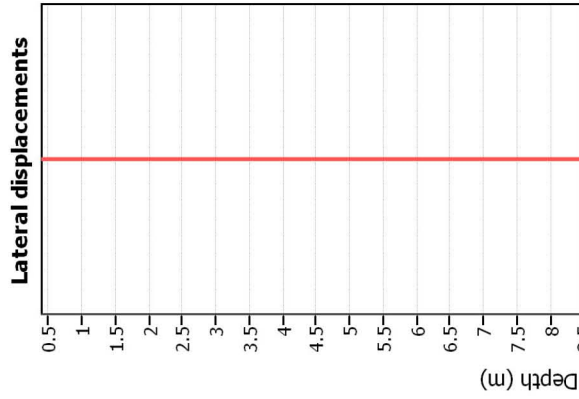
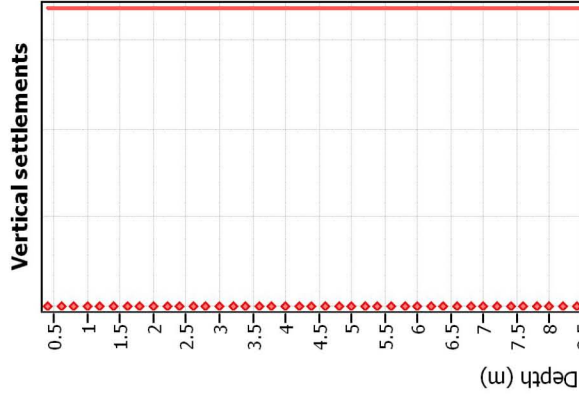
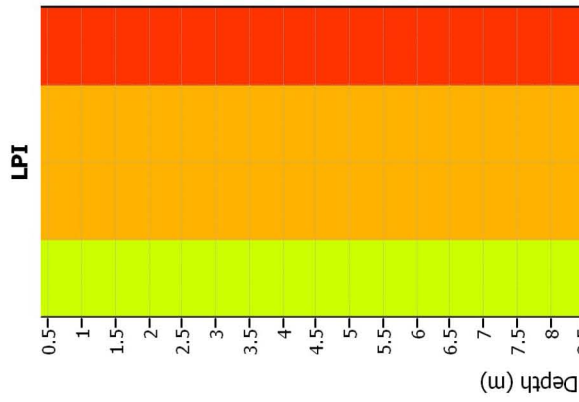
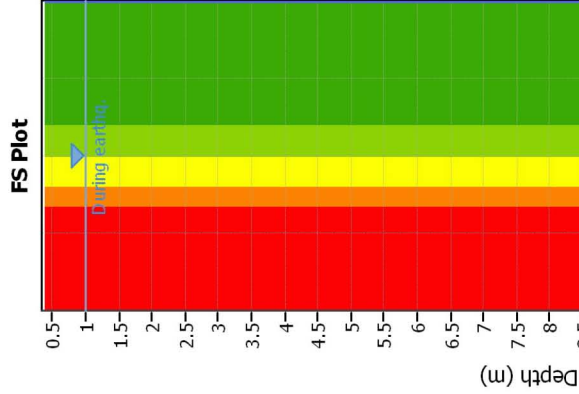
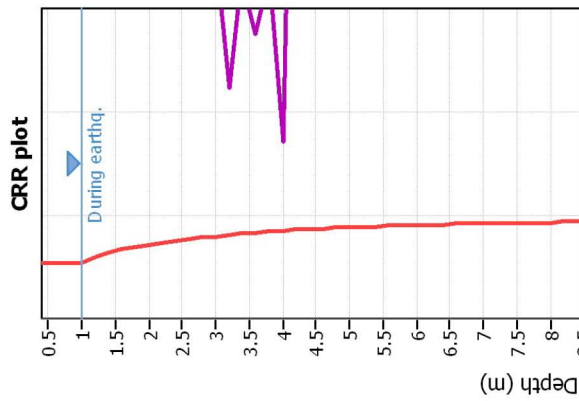
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Green	Unlike to liquefy
Dark Green	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 Ic cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

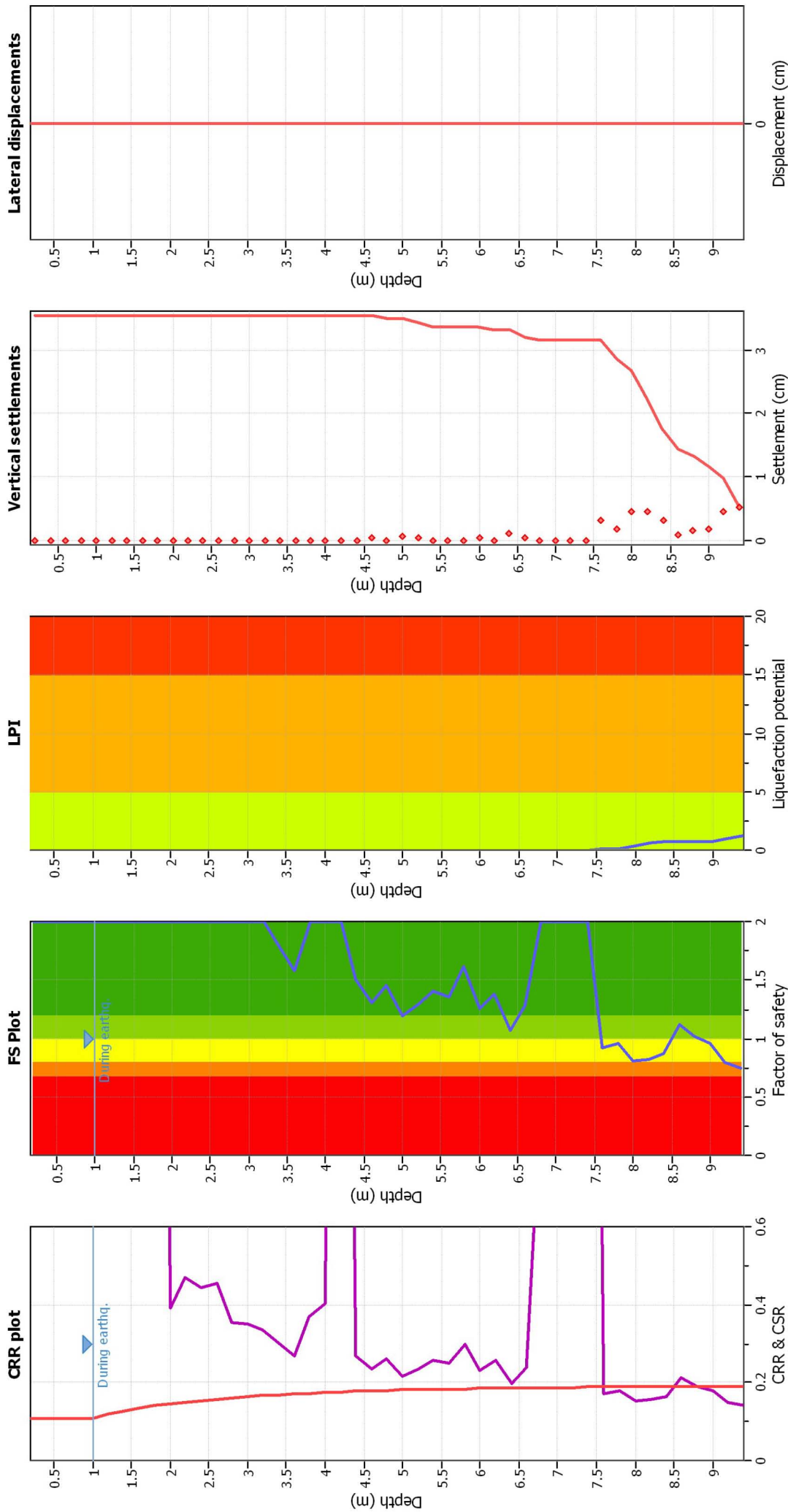
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 Ic cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

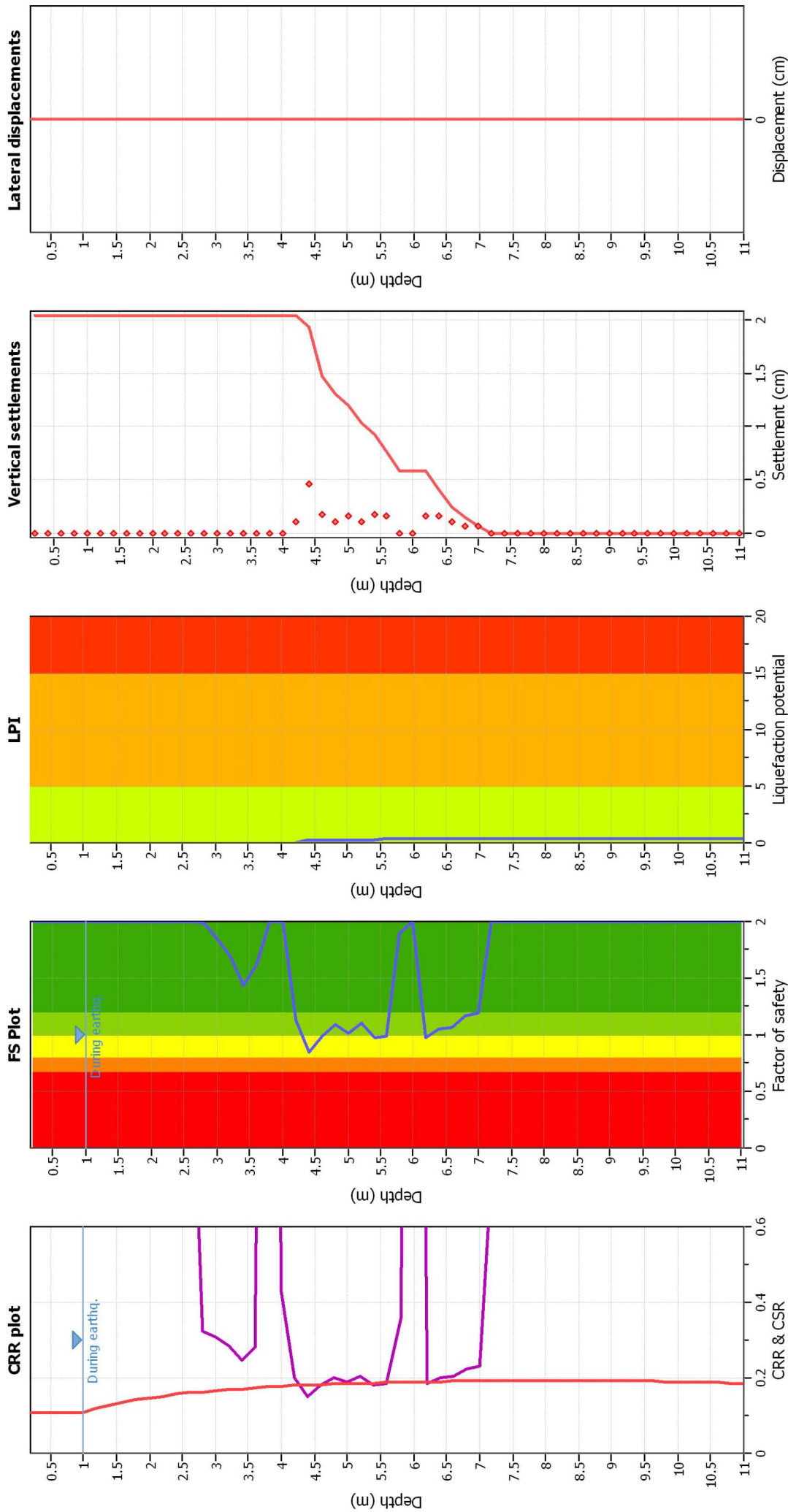
F.S. color scheme

■ Almost certain it will liquefy
■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlikely to liquefy
■ Almost certain it will not liquefy

LPI color scheme

■ Very high risk
■ High risk
■ Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 I_c cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

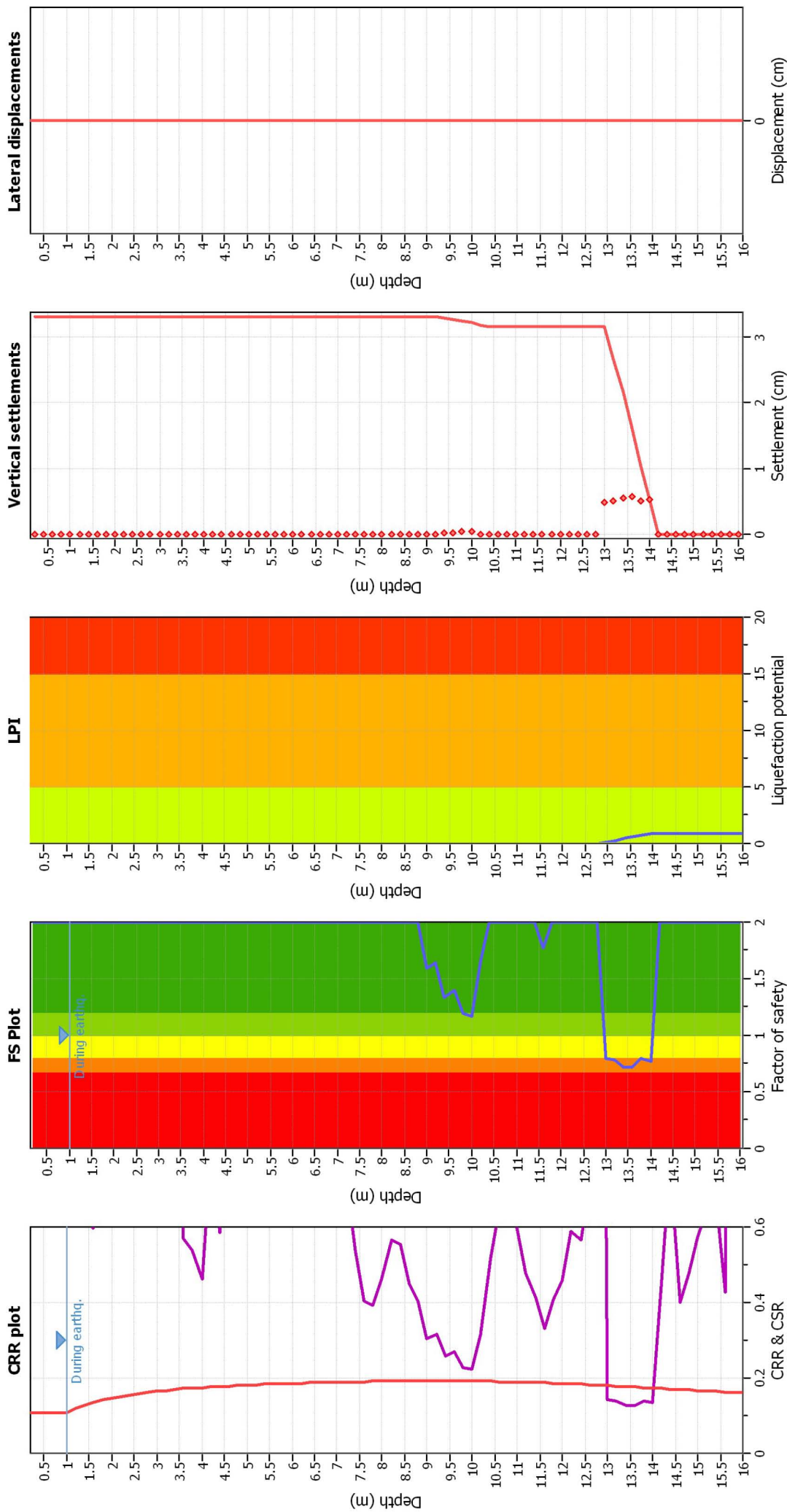
F.S. color scheme

■ Almost certain it will liquefy
■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlikely to liquefy
■ Almost certain it will not liquefy

LPI color scheme

■ Very high risk
■ High risk
■ Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (earthq.):	1.00 m
Fines correction method:	Robertson (2009)	Average results interval:	3
Points to test:	Based on I _c value	I _c cut-off value:	2.60
Earthquake magnitude M _w :	6.14	Unit weight calculation:	Based on SBT
Peak ground acceleration:	0.28	Use fill:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A
Fill weight:	N/A	Transition detect. applied:	N/A
K _σ applied:	No	Clay like behavior applied:	All soils
Limit depth applied:	No	Limit depth:	N/A

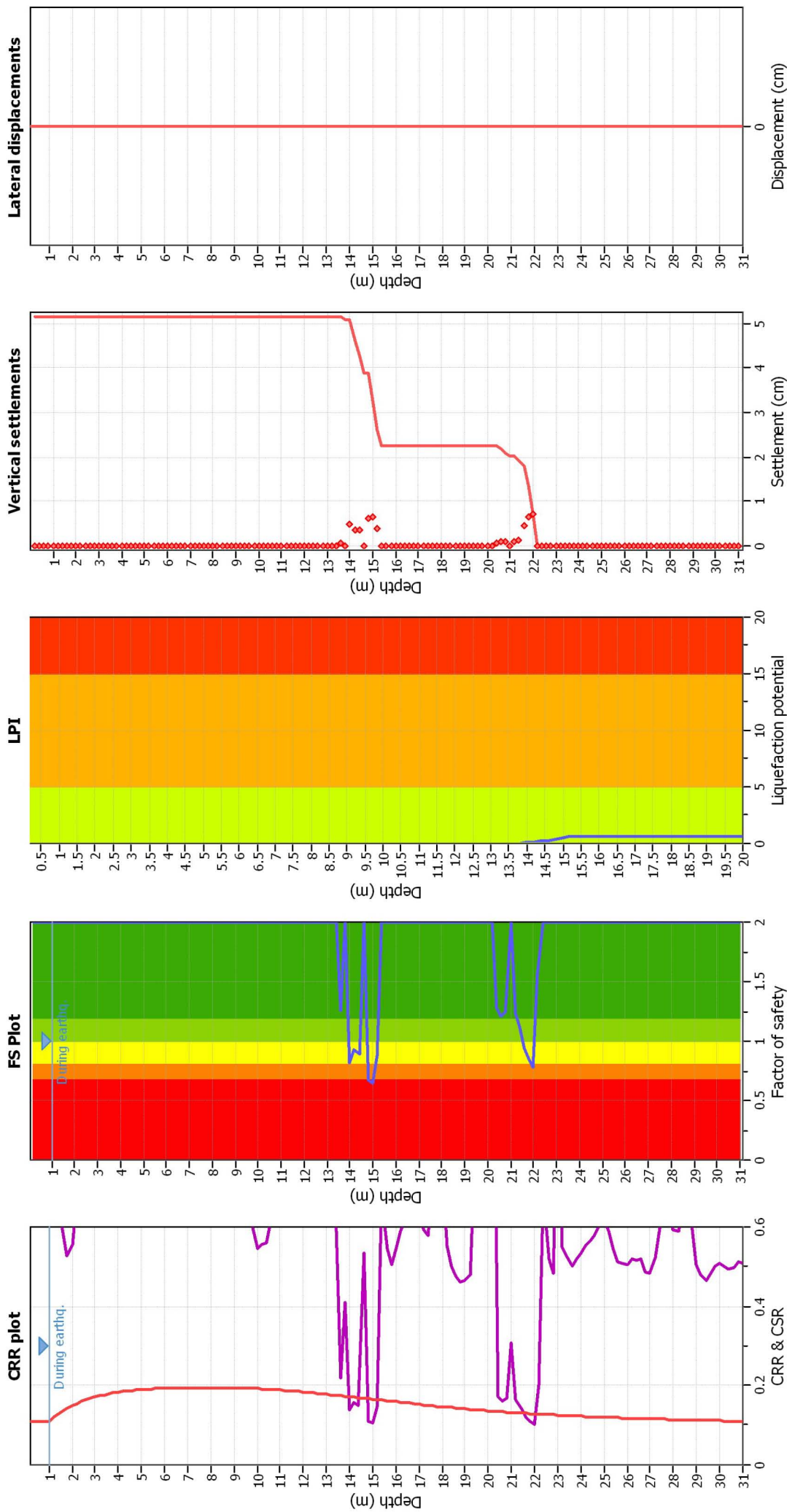
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Light Green	Unlikely to liquefy
Dark Green	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (earthq.):	1.00 m
Fines correction method:	Robertson (2009)	Average results interval:	3
Points to test:	Based on Ic value	Ic cut-off value:	2.60
Earthquake magnitude M_w :	6.14	Unit weight calculation:	Based on SBT
Peak ground acceleration:	0.28	Use fill:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A
Fill weight:		Transition detect. applied:	N/A
K_{σ} applied:		Clay like behavior applied:	All soils
Limit depth applied:		Limit depth:	N/A

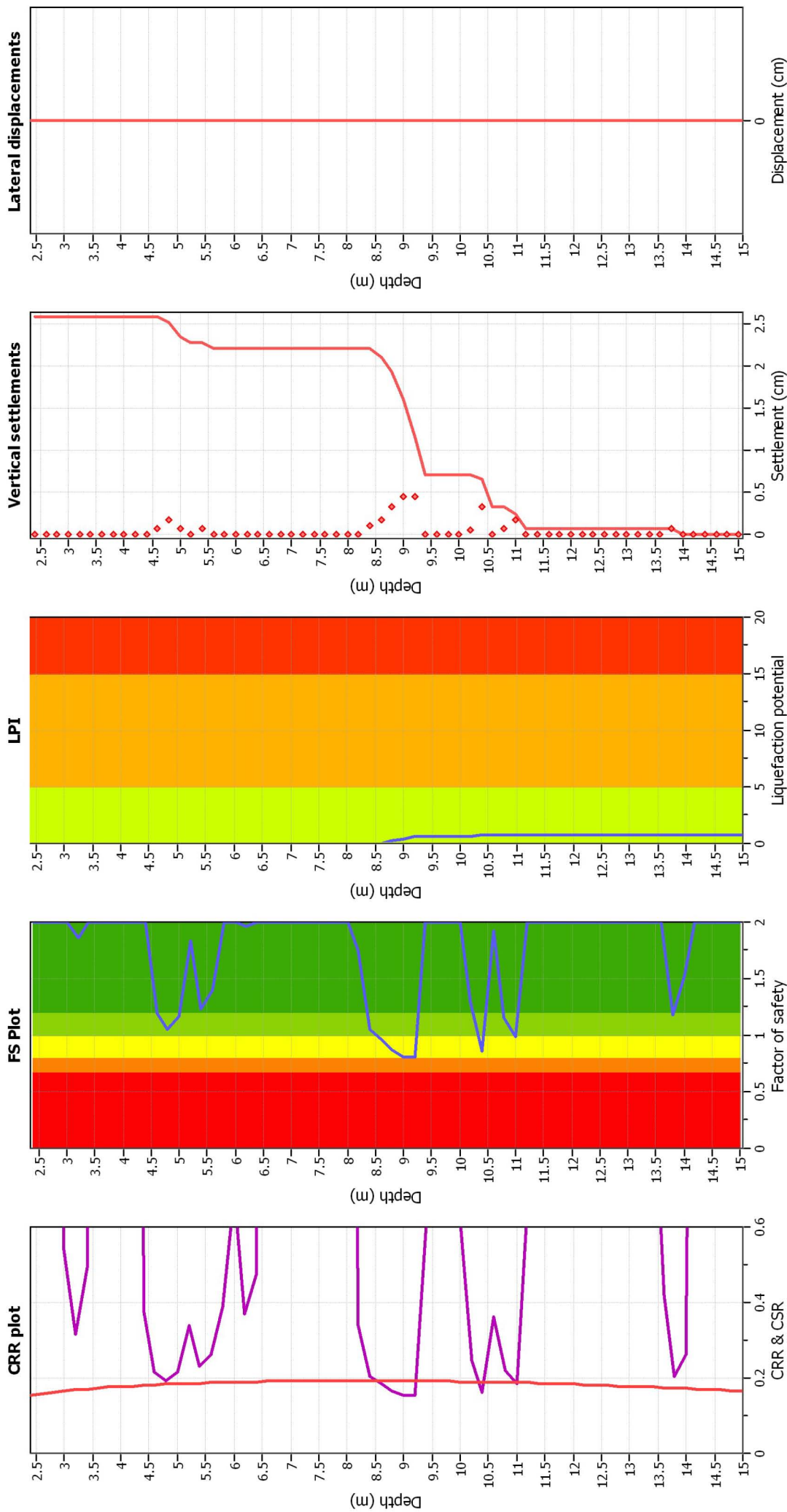
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Green	Unlike to liquefy
Blue	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w: 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 I_c cut-off value: Based on SBT
 Unit weight calculation: No
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_σ applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

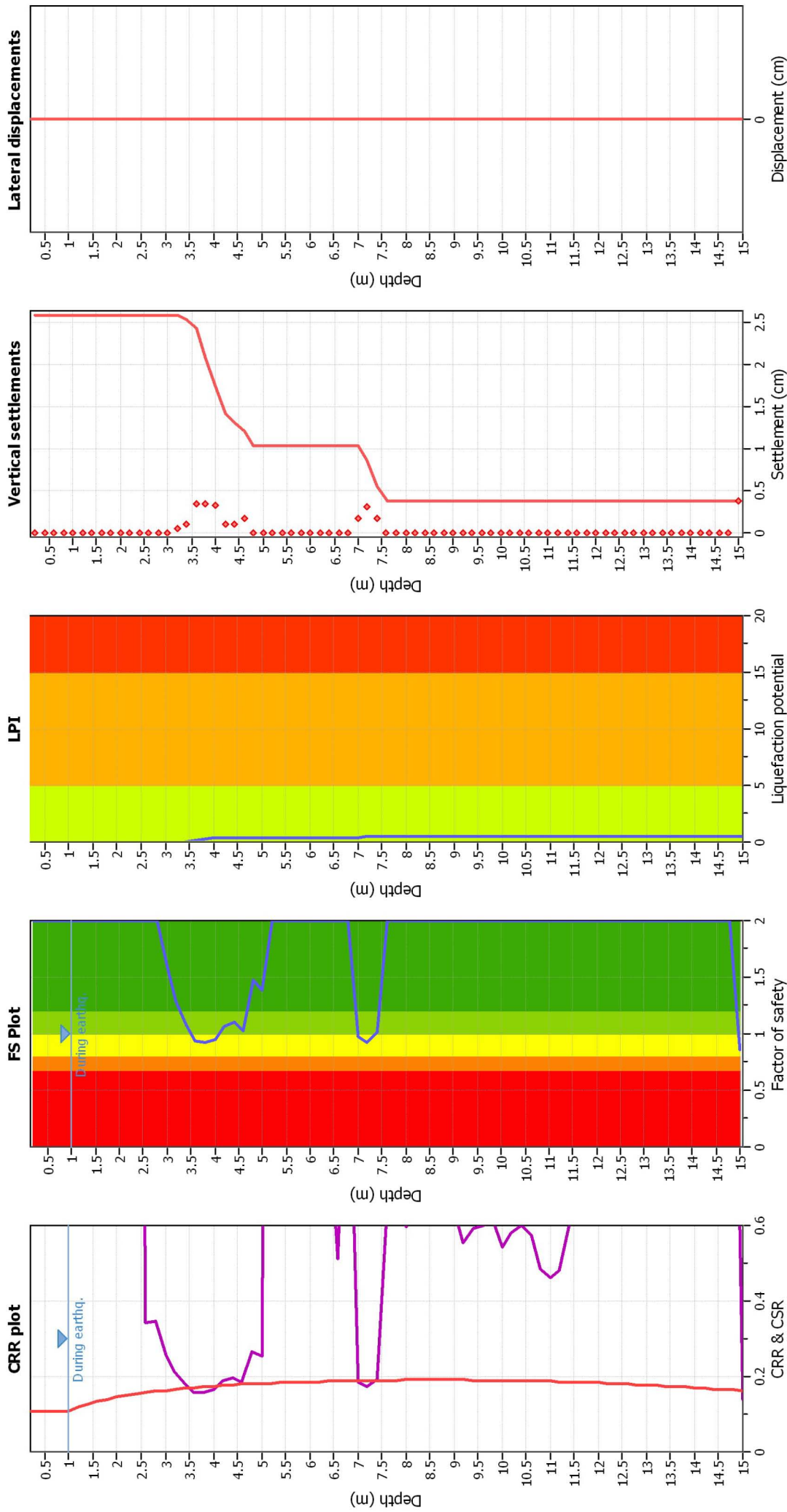
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (earthq.):	1.00 m
Fines correction method:	Robertson (2009)	Average results interval:	3
Points to test:	Based on Ic value	Ic cut-off value:	2.60
Earthquake magnitude M_w :	6.14	Unit weight calculation:	Based on SBT
Peak ground acceleration:	0.28	Use fill:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A
Fill weight:	N/A	Transition detect. applied:	N/A
Transition detect. applied:	No	K_{σ} applied:	No
K_{σ} applied:	No	Clay like behavior applied:	All soils
Clay like behavior applied:	All soils	Limit depth applied:	No
Limit depth applied:	No	Limit depth:	N/A

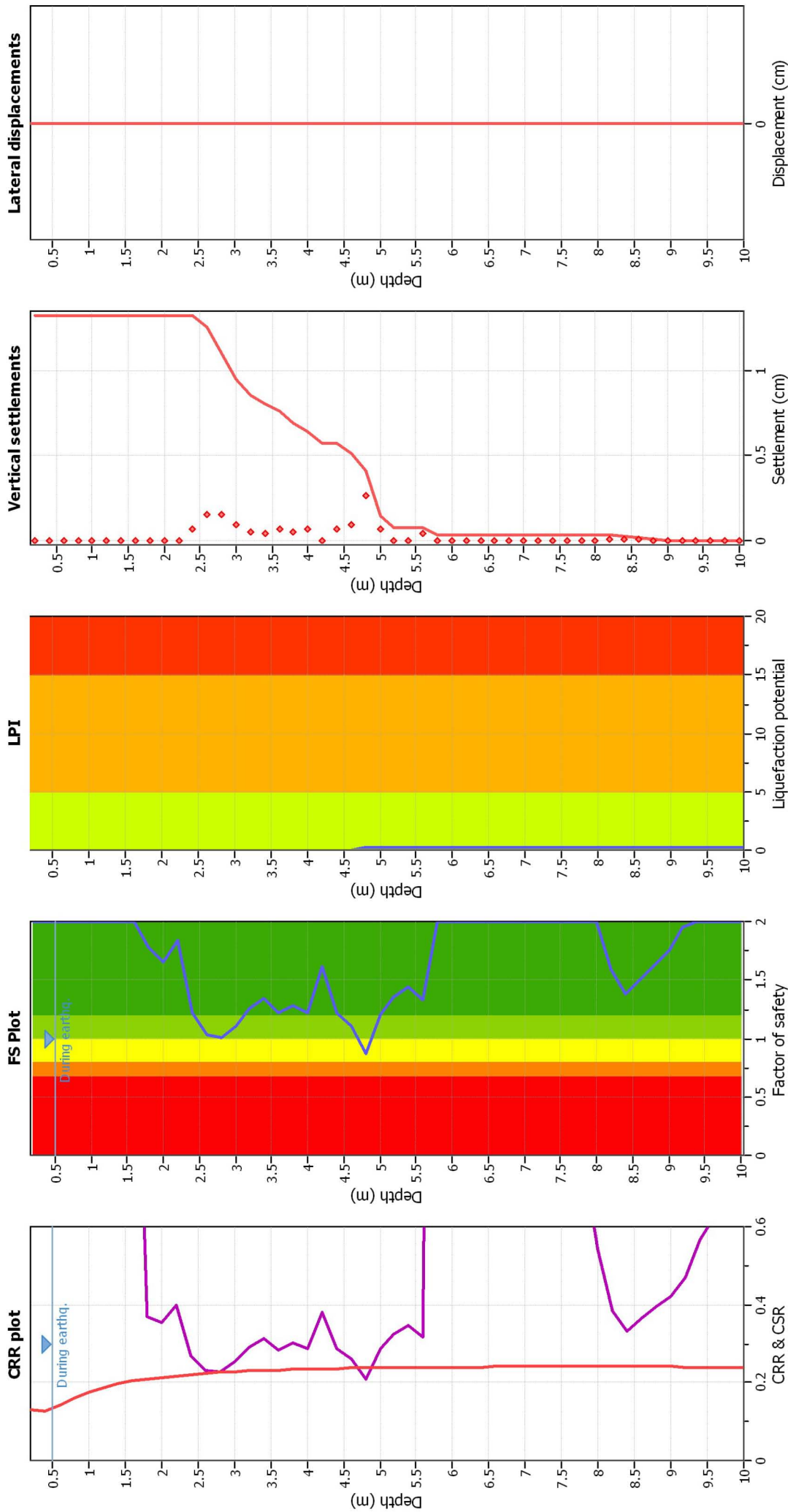
F.S. color scheme

■	Almost certain it will liquefy
■	Very likely to liquefy
■	Liquefaction and no liq. are equally likely
■	Unlikely to liquefy
■	Almost certain it will not liquefy

LPI color scheme

■	Very high risk
■	High risk
■	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (earthq.):	0.50 m
Fines correction method:	Robertson (2009)	Average results interval:	3
Points to test:	Based on Ic value	Ic cut-off value:	2.60
Earthquake magnitude M_w :	6.14	Unit weight calculation:	Based on SBT
Peak ground acceleration:	0.33	Use fill:	No
Depth to water table (insitu):	0.50 m	Fill height:	N/A
Fill weight:	N/A	Transition detect. applied:	N/A
K_{σ} applied:	No	Clay like behavior applied:	All soils
Limit depth applied:	No	Limit depth:	N/A

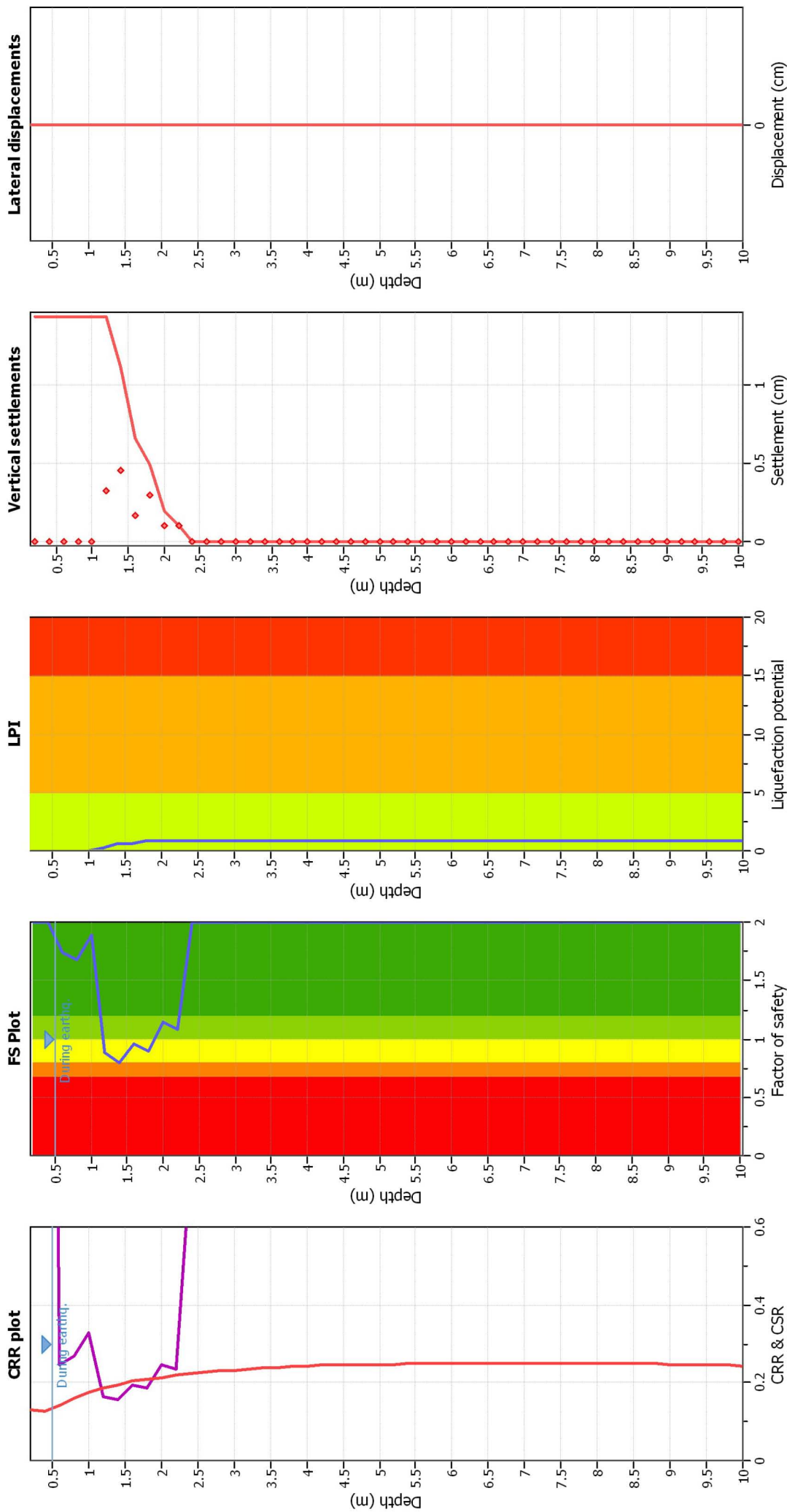
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Green	Unlikely to liquefy
Dark Green	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on I_c value	K_{σ} applied:	No
Earthquake magnitude M_w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.33	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Limit depth:	N/A
Depth to water table (earthq.):	0.50 m		
Average results interval:	3		
I_c cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		

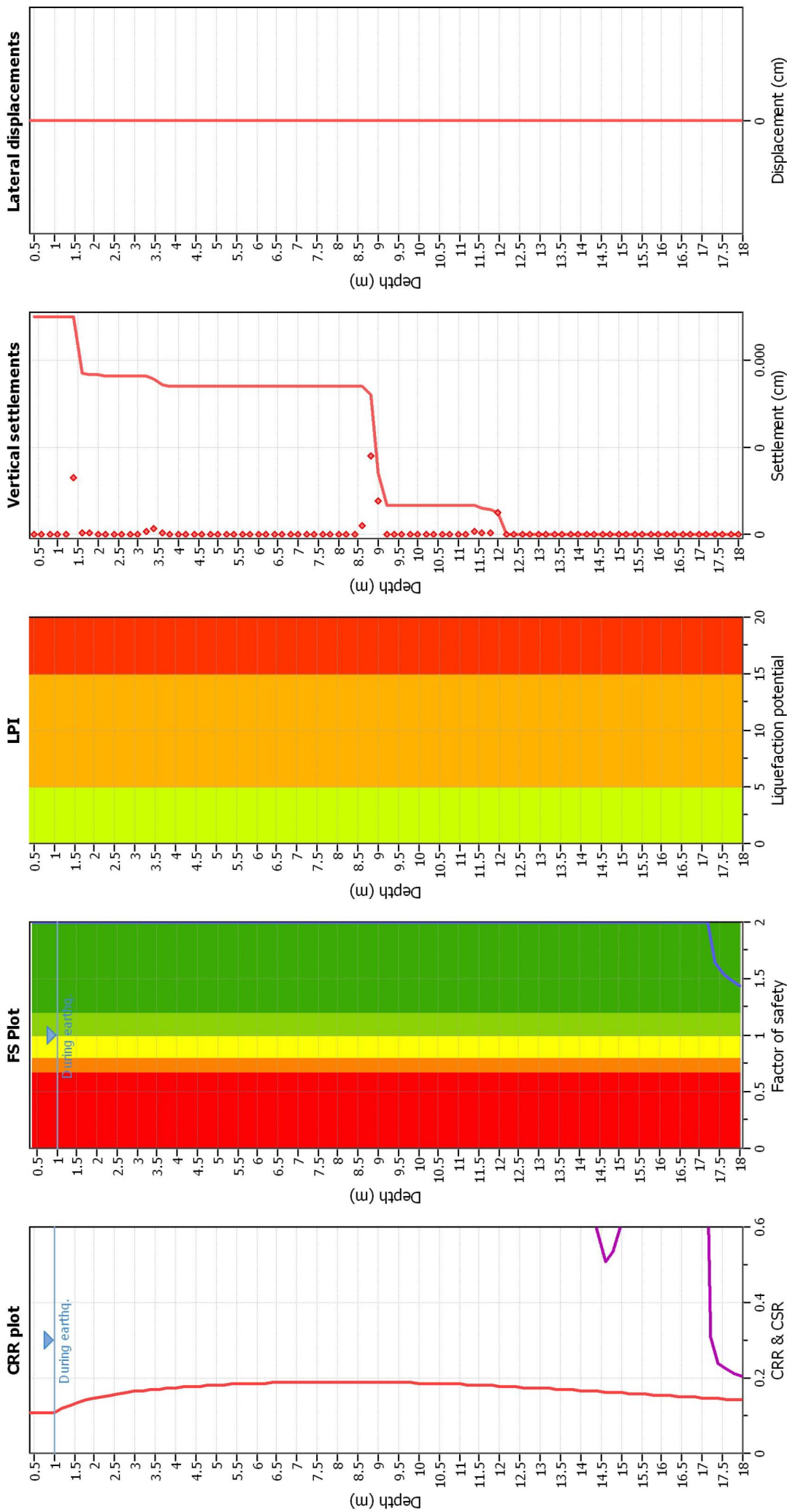
F.S. color scheme

Very high risk	Almost certain it will liquefy
High risk	Very likely to liquefy
Low risk	Liquefaction and no liq. are equally likely
	Unlikely to liquefy
	Almost certain it will not liquefy

LPI color scheme

Very high risk
High risk
Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on I_c value
 Earthquake magnitude M_w: 6.14
 Peak ground acceleration: 0.28
 Depth to water table (insitu): 1.00 m

Depth to water table (earthq.): 1.00 m
 Average results interval: 3
 I_c cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_σ applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

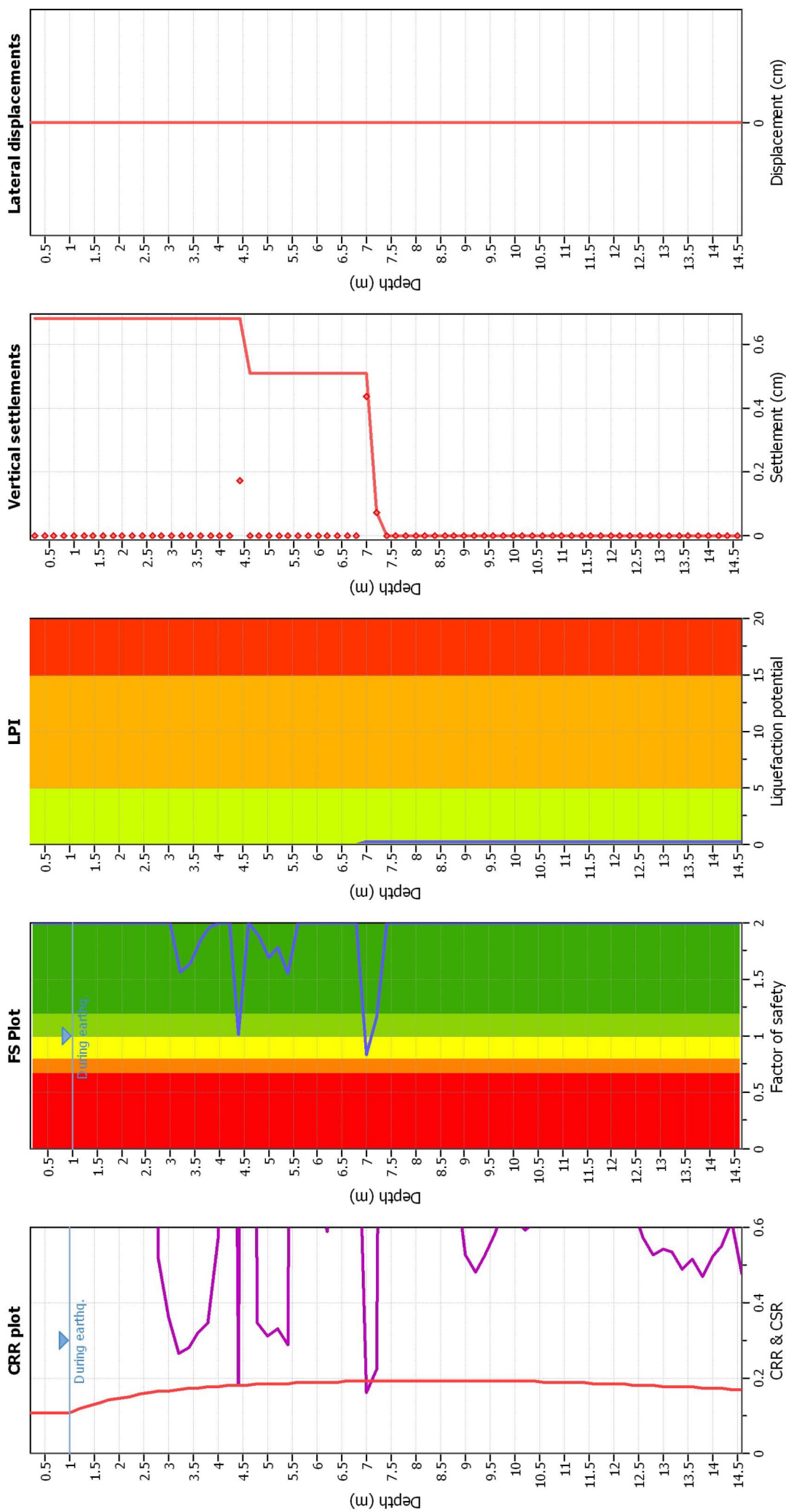
F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on Ic value	K _σ applied:	No
Earthquake magnitude M _w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.28	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Limit depth:	N/A
Depth to water table (earthq.):	1.00 m	Fill weight:	N/A
Average results interval:	3	Transition detect. applied:	No
Ic cut-off value:	2.60	K _σ applied:	No
Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Use fill:	No	Limit depth applied:	No
Fill height:	N/A	Limit depth:	N/A

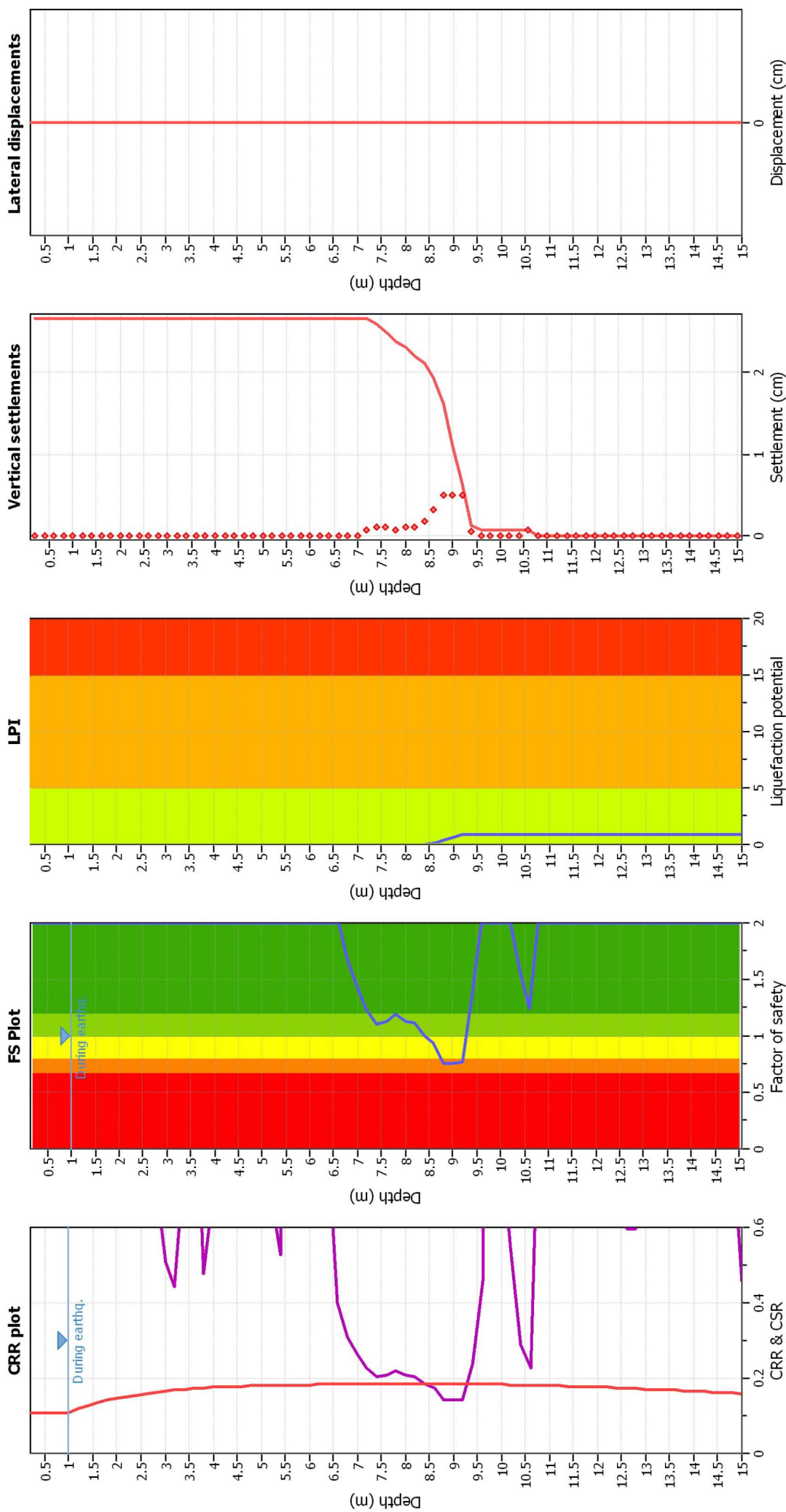
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Green	Unlike to liquefy
Dark Green	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on Ic value	K_{σ} applied:	No
Earthquake magnitude M_w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.28	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Limit depth:	N/A
Depth to water table (earthq.):	1.00 m		
Average results interval:	3		
Ic cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		

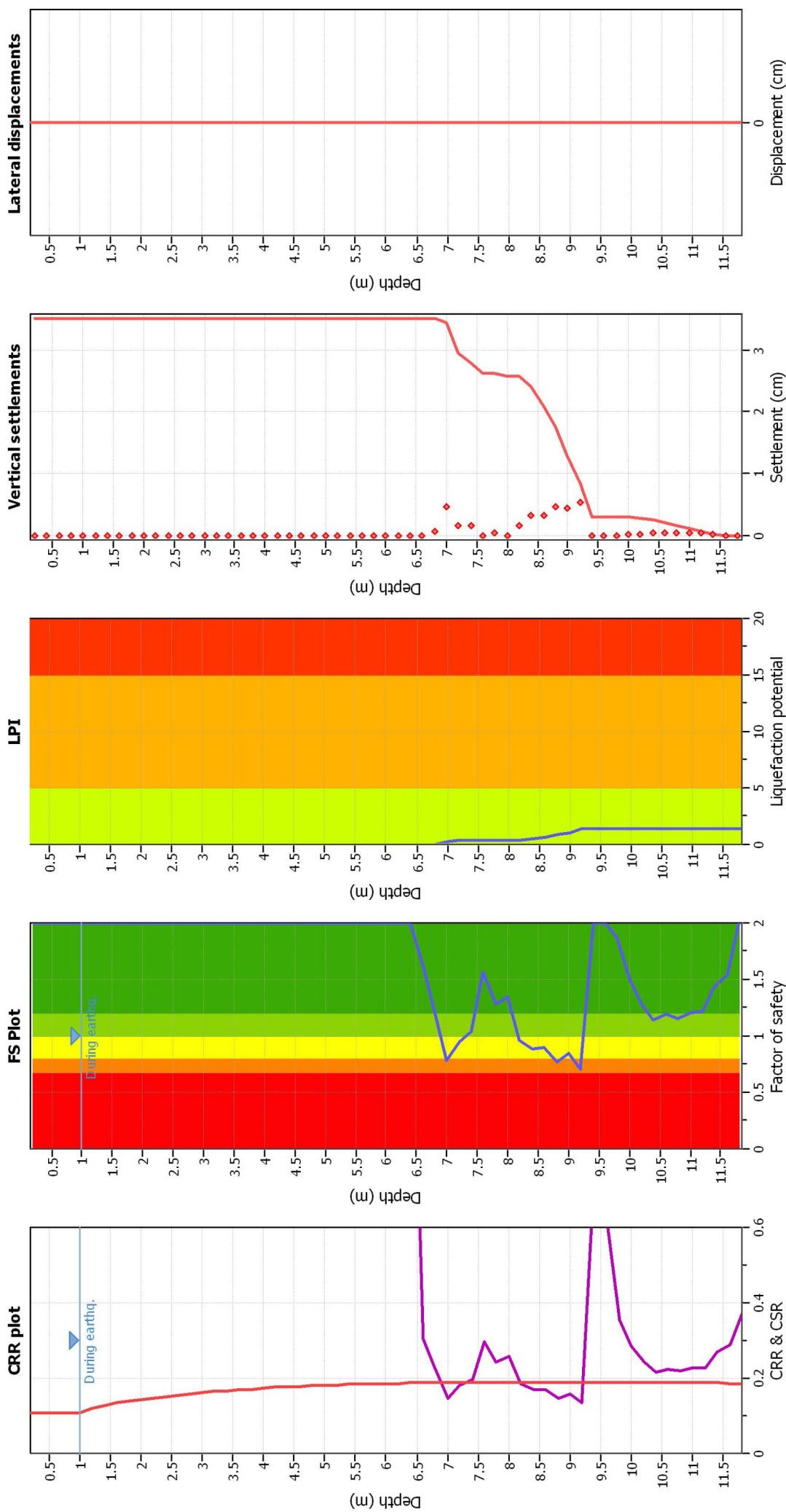
F.S. color scheme

Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Light Green	Unlikely to liquefy
Dark Green	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on Ic value	K _σ applied:	No
Earthquake magnitude M _w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.28	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Limit depth:	N/A
Depth to water table (earthq.):	1.00 m		
Average results interval:	3		
Ic cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		

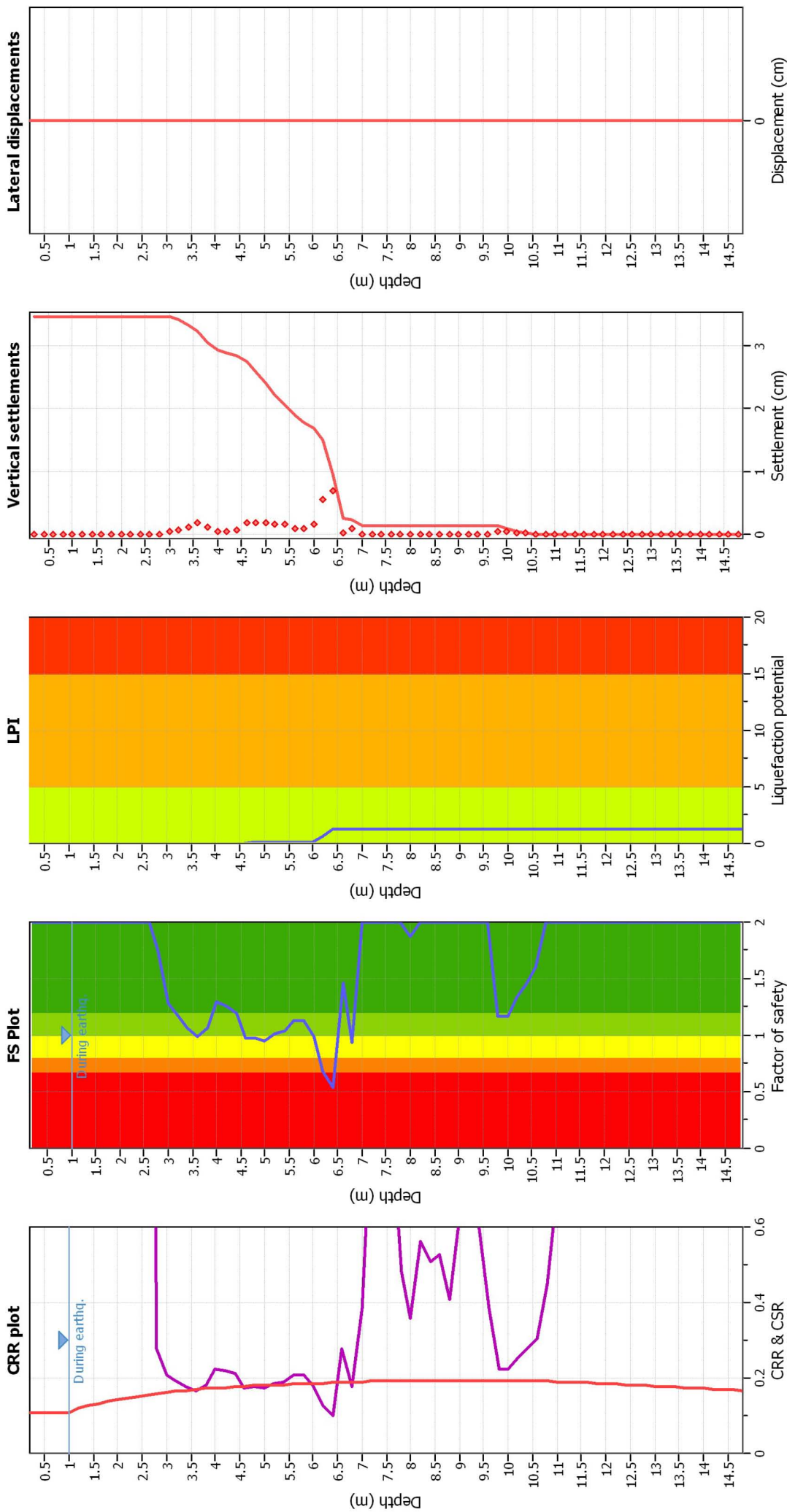
F.S. color scheme

■	Almost certain it will liquefy
■	Very likely to liquefy
■	Liquefaction and no liq. are equally likely
■	Unlikely to liquefy
■	Almost certain it will not liquefy

LPI color scheme

■	Very high risk
■	High risk
■	Low risk

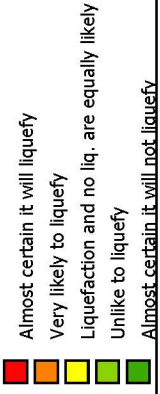
Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Transition detect. applied:	No
Points to test:	Based on Ic value	K _σ applied:	No
Earthquake magnitude M _w :	6.14	Clay like behavior applied:	All soils
Peak ground acceleration:	0.28	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Limit depth:	N/A
Depth to water table (earthq.):	1.00 m		
Average results interval:	3		
Ic cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		

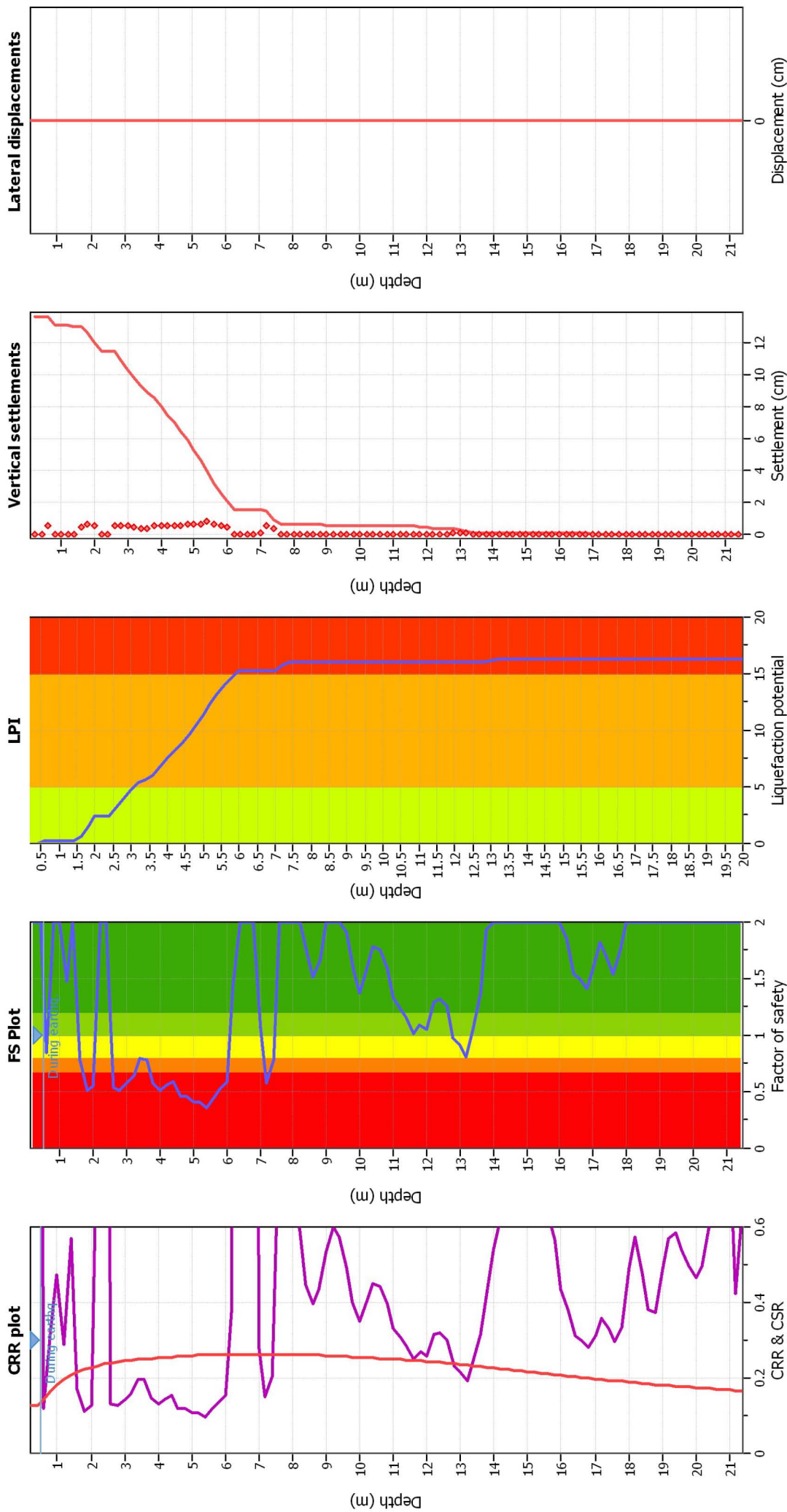
F.S. color scheme



LPI color scheme



Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: Robertson (2009)
 Fines correction method: Robertson (2009)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 6.14
 Peak ground acceleration: 0.33
 Depth to water table (insitu): 0.50 m

Depth to water table (earthq.): 0.50 m
 Average results interval: 3
 Ic cut-off value: 2.60
 Unit weight calculation: Based on SBT
 Use fill: No
 Fill height: N/A

Fill weight: N/A
 Transition detect. applied: No
 K_{σ} applied: No
 Clay like behavior applied: All soils
 Limit depth applied: No
 Limit depth: N/A

F.S. color scheme

■ Almost certain it will liquefy
■ Very likely to liquefy
■ Liquefaction and no liq. are equally likely
■ Unlikely to liquefy
■ Almost certain it will not liquefy

LPI color scheme

■ Very high risk
■ High risk
■ Low risk