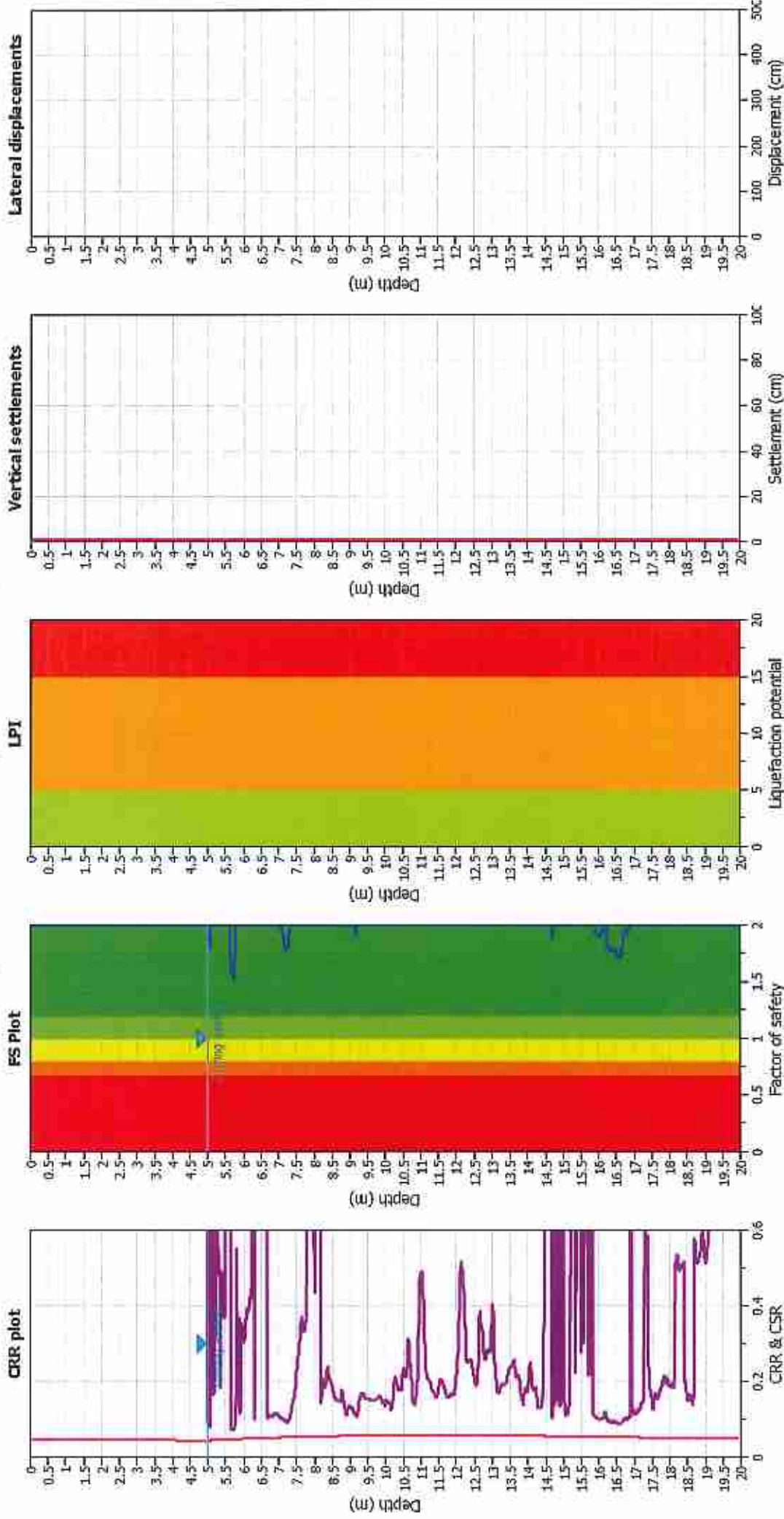


### Liquefaction analysis overall plots



#### Input parameters and analysis data

Analysis method: Robertson (2009)  
 Fines correction method: Robertson (2009)  
 Points to test: Based on  $I_c$  value  
 Earthquake magnitude  $M_w$ : 7.50  
 Peak ground acceleration: 0.07  
 Depth to water table (Instut): 5.00 m

Depth to water table (erchg.): 5.00 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: Yes  
 $K_s$  applied: No  
 Clay like behavior applied: All soils  
 Limit depth applied: No  
 Limit depth: N/A

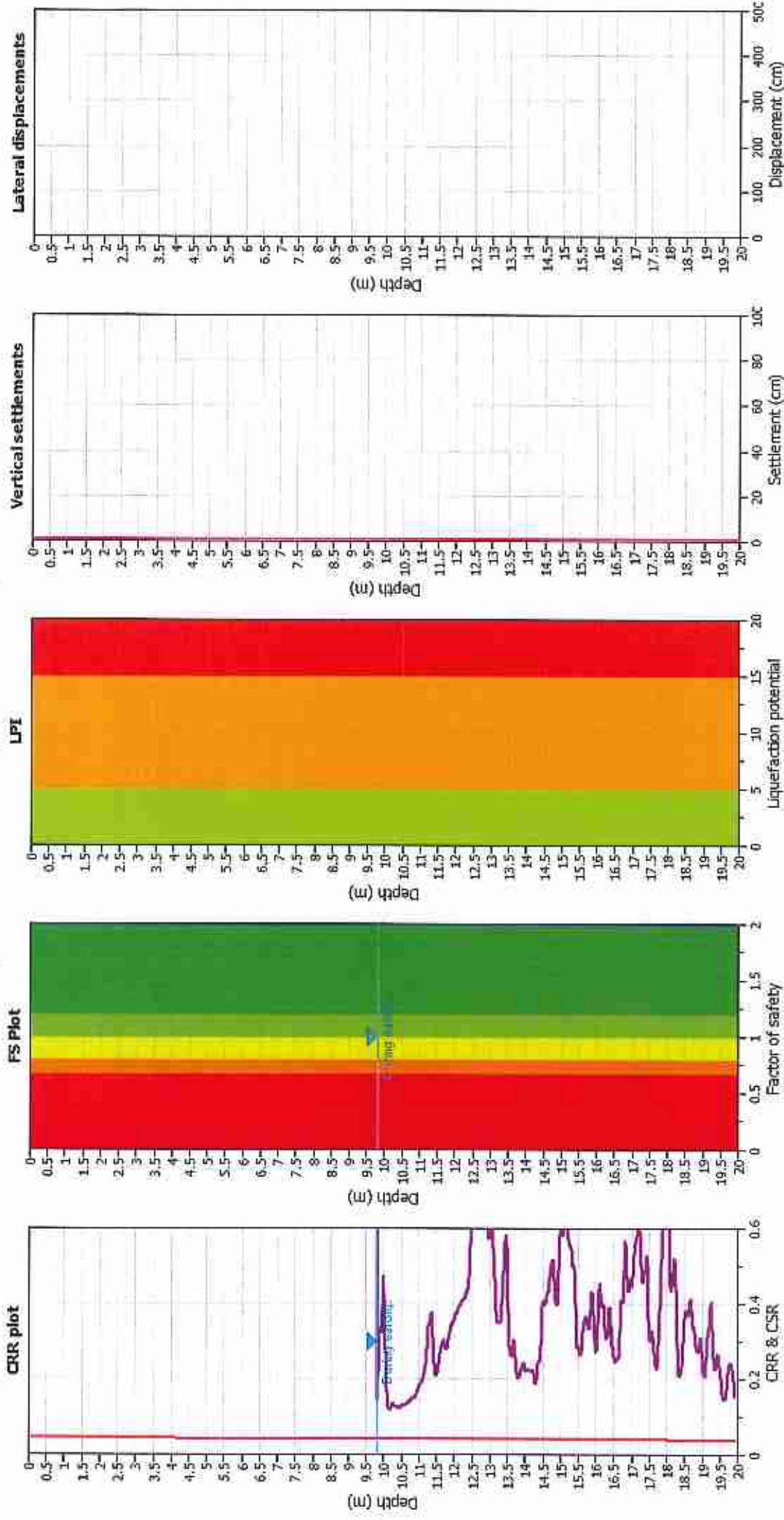
#### F.S. color scheme

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

#### 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 (m):	9.80 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 $M_w$ :	7.50	Unit weight calculation:	Based on SBT
Peak ground acceleration:	0.07	Use fill:	No
Depth to water table (m):	7.50 m	Limit depth:	N/A
		Fill weight:	N/A
		Transition detect. applied:	Yes
		$K_s$ applied:	No
		Clay like behavior applied:	All soils
		Limit depth applied:	No
		Limit depth:	N/A

#### F.S. color scheme

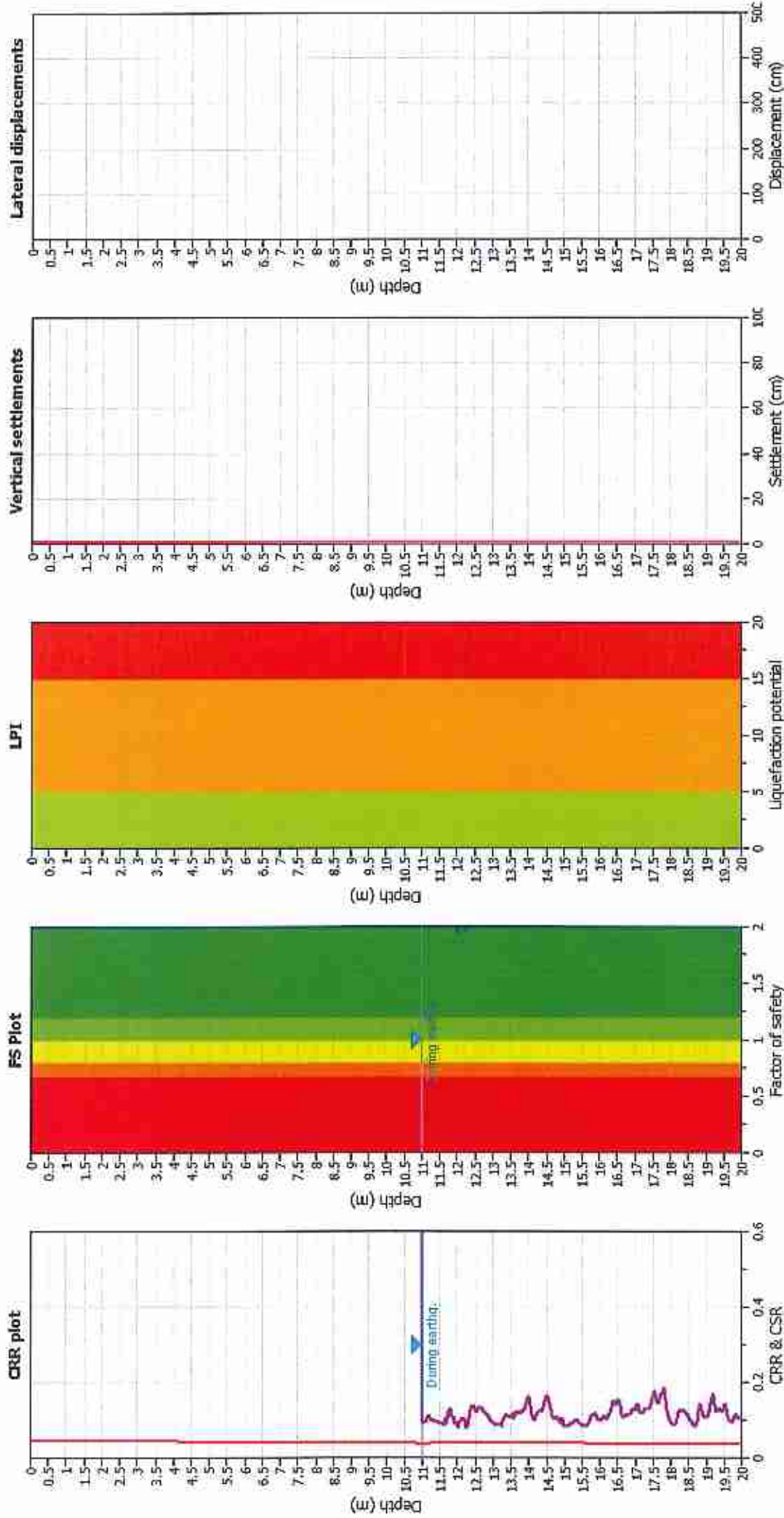
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlikely to liquefy
- Almost certain it will not liquefy

#### 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 $M_w$ :	7.50
Peak ground acceleration:	0.07
Depth to water table (mstb):	11.00 m

Depth to water table (earthq.):	11.00 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:	Yes
$K_v$ applied:	No
Clay like behavior applied:	All soils
Limit depth applied:	No
Limit depth:	N/A

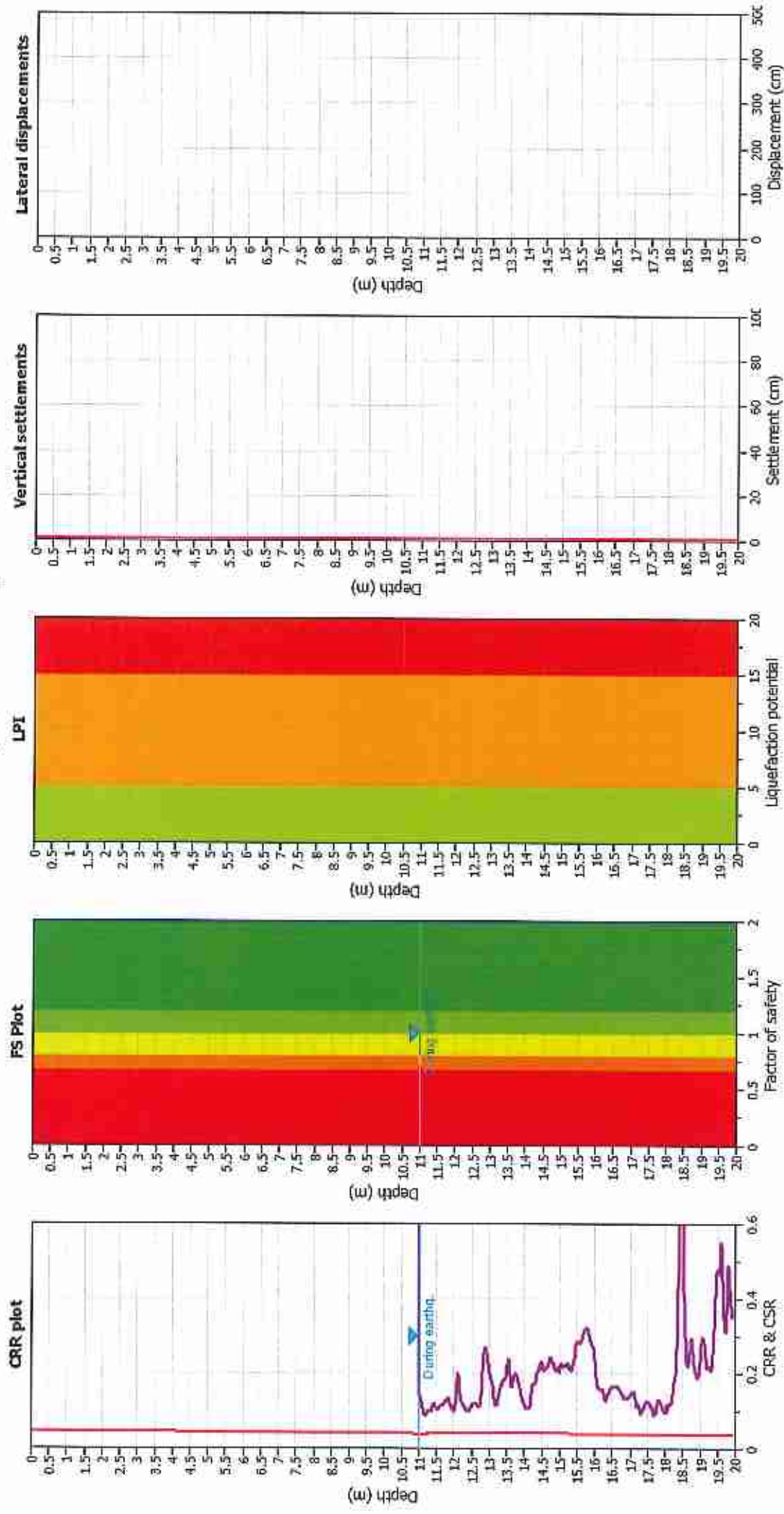
#### F.S. color scheme

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

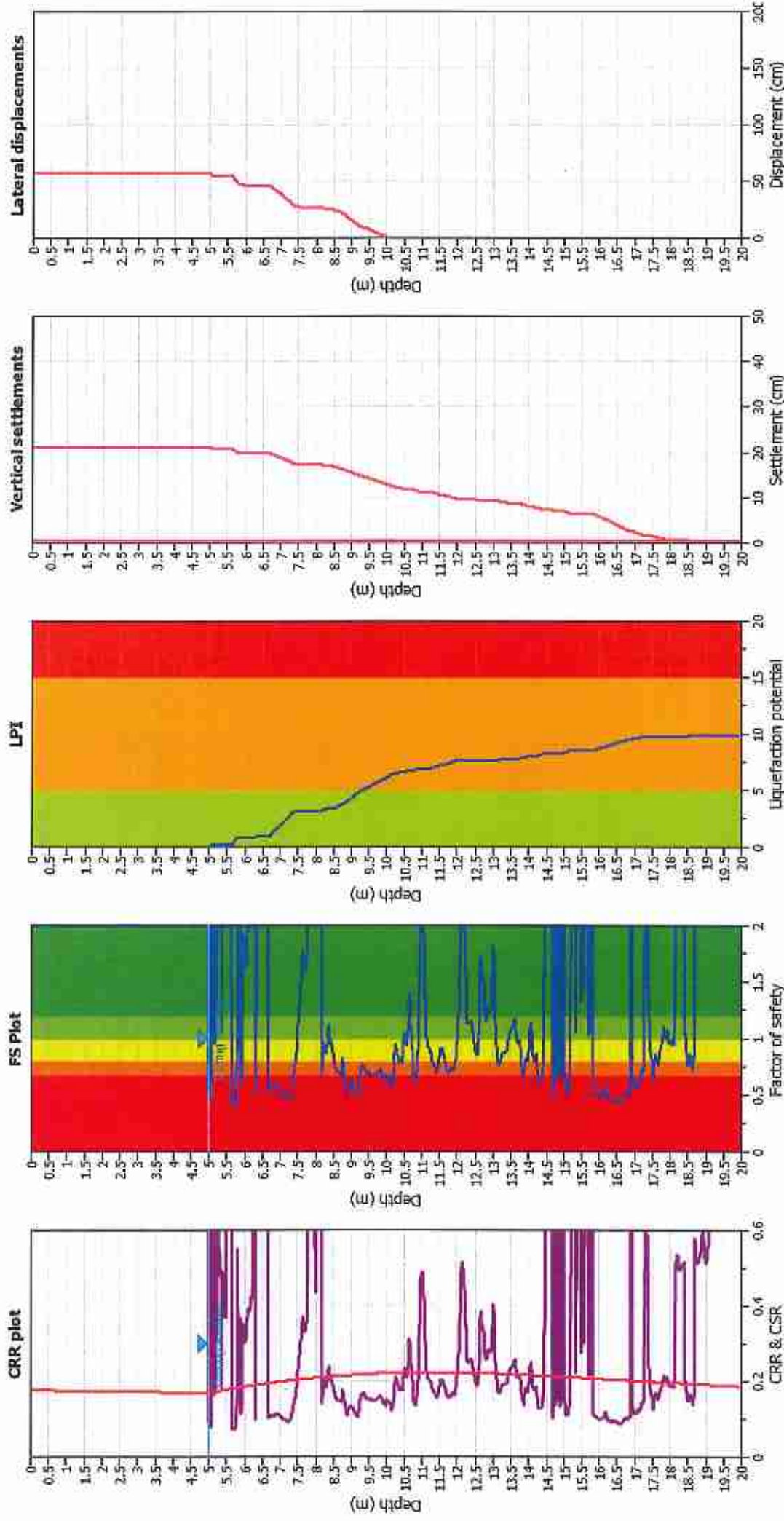


### Input parameters and analysis data

Analysis method:	Robertson (2009)	Fill weight:	N/A
Finer correction method:	Robertson (2009)	Transition detect. applied:	Yes
Points to test:	Based on $t_c$ value	$K_c$ applied:	No
Earthquake magnitude $M_w$ :	7.50	Clay like behavior applied:	All soils
Peak ground acceleration:	0.07	Limit depth applied:	No
Depth to water table (insitu):	11.00 m	Limit depth:	N/A
Depth to water table (earthq.):	11.00 m		
Average results interval:	3		
$t_c$ cut-off value:	2.60		
Unit weight calculation:	Based on SBT		
Use fill:	No		
Fill height:	N/A		



### Liquefaction analysis overall plots



#### Input parameters and analysis data

Analysis method: Robertson (2009)  
 Fines correction method: Robertson (2009)  
 Points to test: Robertson (2009)  
 Earthquake magnitude  $M_w$ : Based on  $I_c$  value  
 Peak ground acceleration: 7.50  
 Depth to water table (m/sub): 0.27  
 Depth to water table (m/sub): 5.00 m

Depth to water table (ortho.): 5.00 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: Yes  
 $K_r$  applied: No  
 Clay like behavior applied: All soils  
 Limit depth applied: No  
 Limit depth: N/A

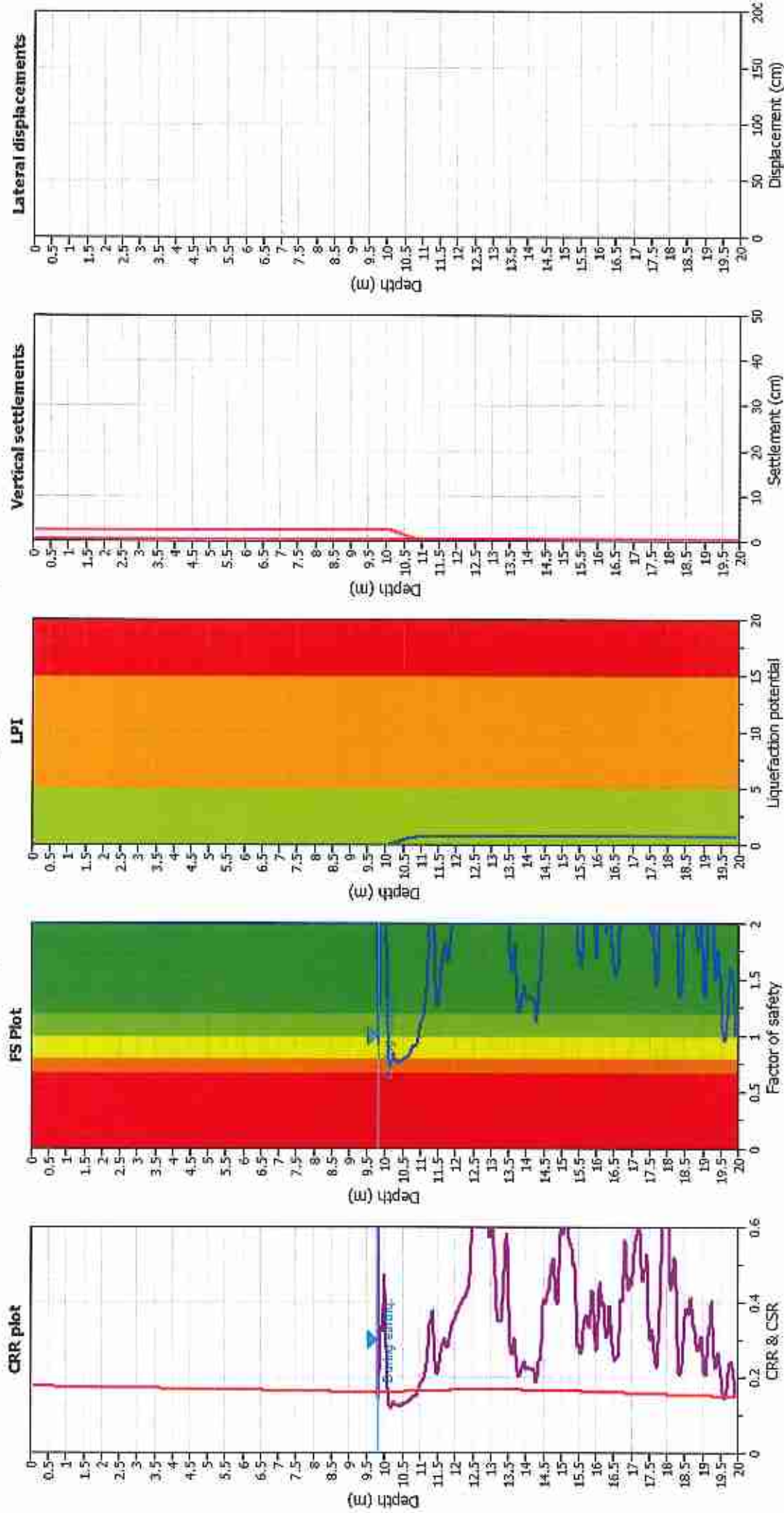
#### F.S. color scheme

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<sub>c</sub> value  
 Earthquake magnitude  $M_w$ : 7.50  
 Peak ground acceleration: 0.27  
 Depth to water table (initial): 7.50 m

Depth to water table (earthq.): 9.80 m  
 Average results interval: 3  
 I<sub>c</sub> 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: Yes  
 $K_{\sigma}$  applied: No  
 Clay like behavior applied: All soils  
 Limit depth applied: No  
 Limit depth: N/A

#### F.S. color scheme

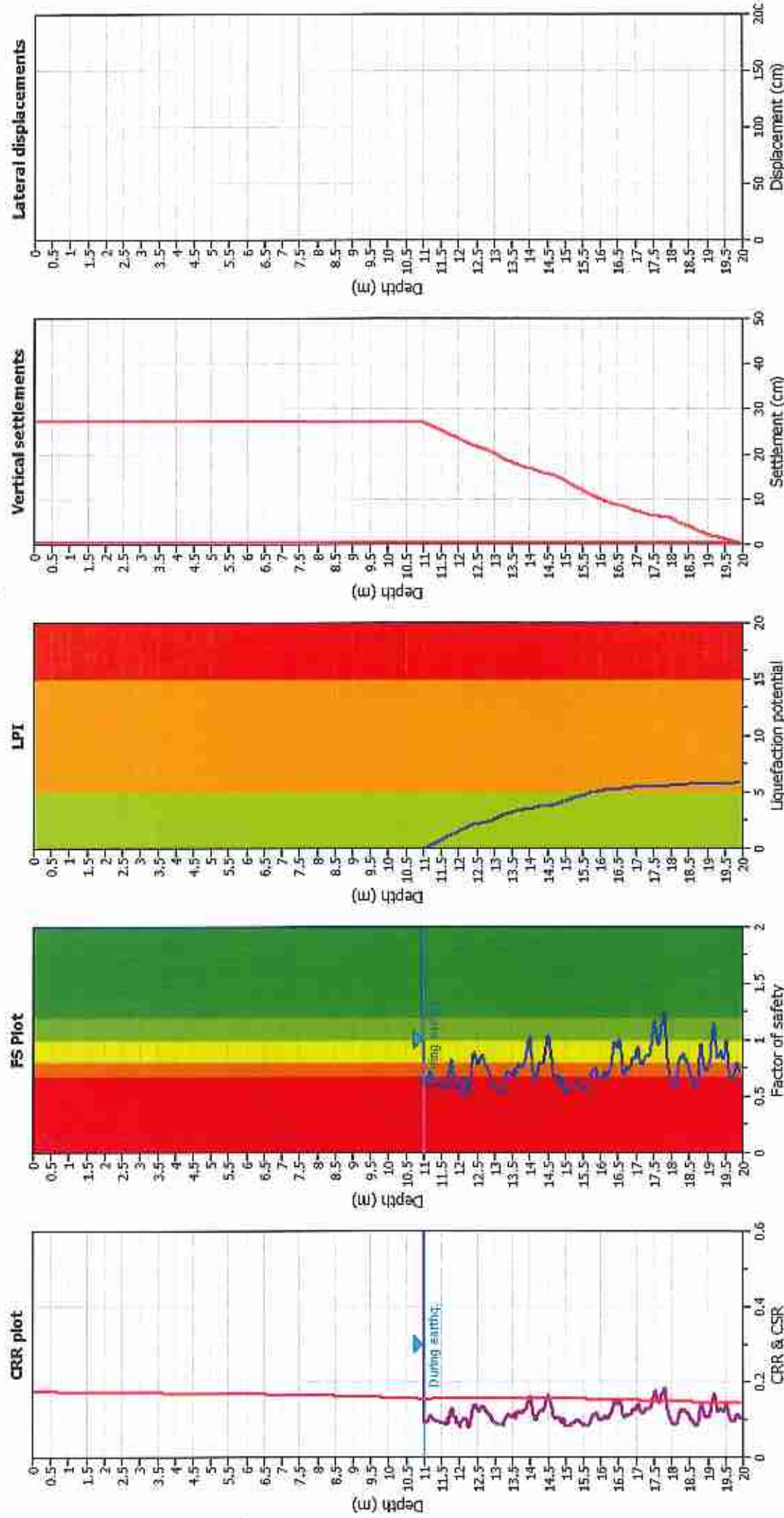
Almost certain it will liquefy  
 Very likely to liquefy  
 Liquefaction and no liq. are equally likely  
 Unlikely to liquefy  
 Almost certain it will not liquefy

#### LPI color scheme

Very high risk  
 High risk  
 Low risk



### Liquefaction analysis overall plots



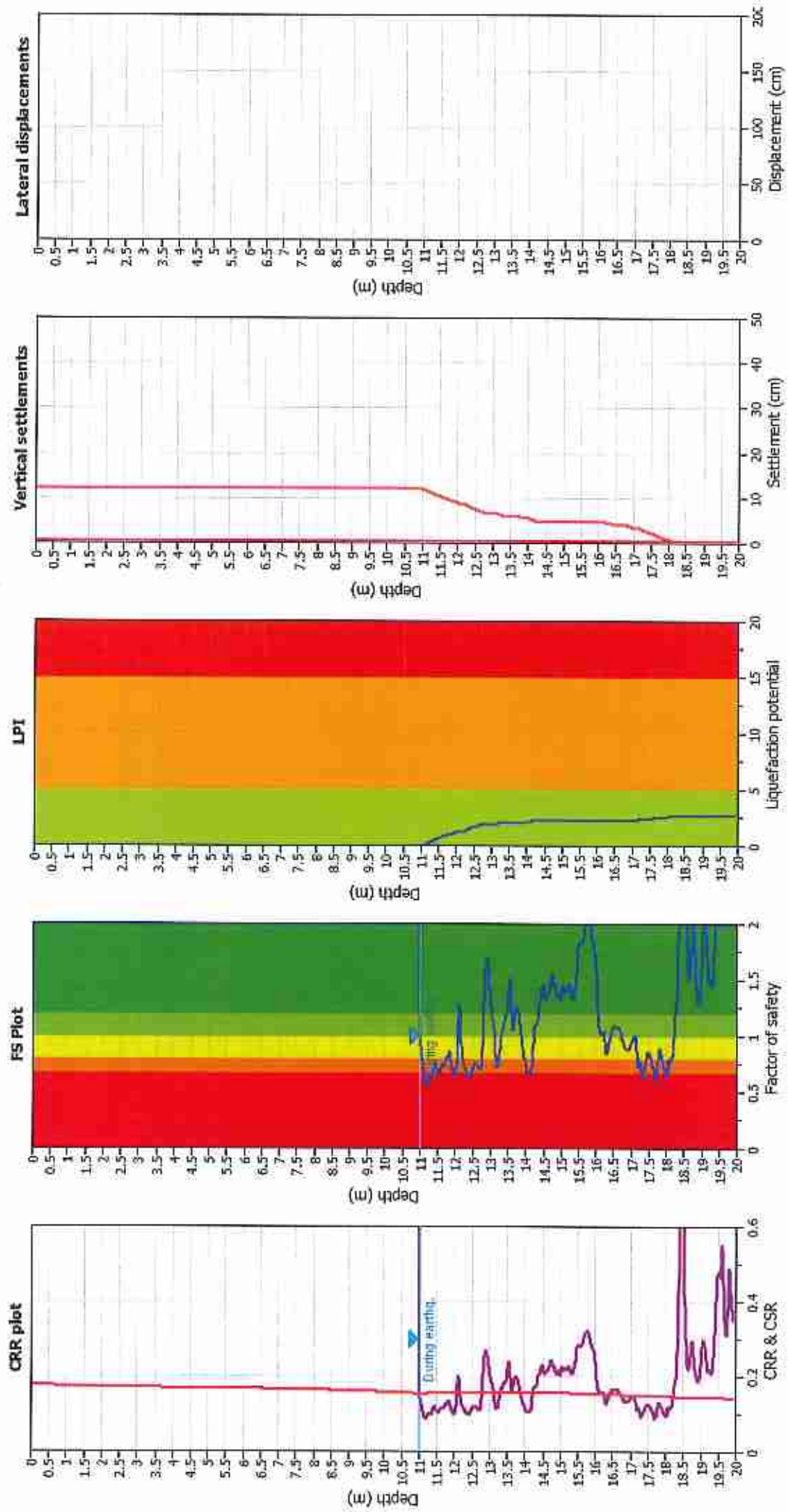
### Input parameters and analysis data

Analysis method: Robertson (2009)  
 Fines correction method: Robertson (2009)  
 Points to test: Based on: Ic value  
 Earthquake magnitude  $M_w$ : 7.50  
 Peak ground acceleration: 0.27  
 Depth to water table (insitu): 11.00 =

Depth to water table (earthq.): 11.00 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: Yes  
 $K_0$  applied: No  
 Clay like behavior applied: All soils  
 Limit depth applied: No  
 Limit depth: N/A

### Liquefaction analysis overall plots



### Input parameters and analysis data

Analysis method:	Robertson (2009)
Fines correction method:	Robertson (2009)
Points to test:	Based on $lc$ value
Earthquake magnitude $M_w$ :	7.50
Peak ground acceleration:	0.27
Depth to water table (In situ):	11.00 m
Fill height:	N/A
Depth to water table (emb-q.):	11.00 m
Average results interval:	3
$lc$ 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:	Yes
$K_0$ applied:	NO
Clay like behavior applied:	All soils
Limit depth applied:	NO
Limit depth:	N/A
Transition detect. applied:	NO
Clay like behavior applied:	All soils
Limit depth applied:	NO
Limit depth:	N/A