

LIQUEFACTION ANALYSIS REPORT

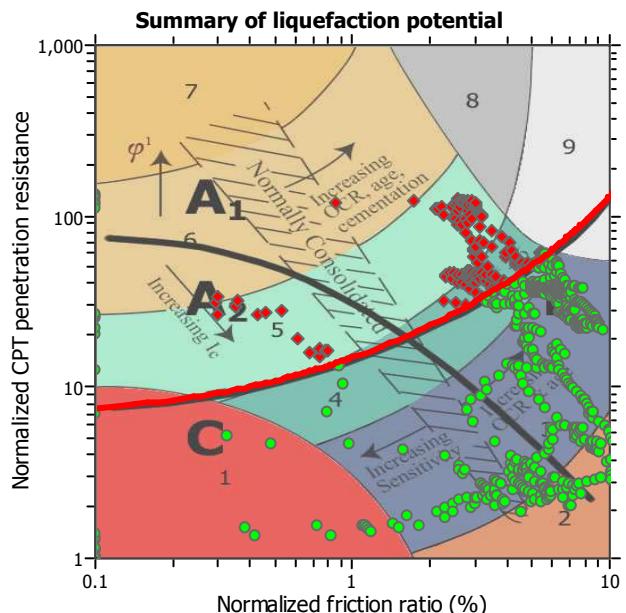
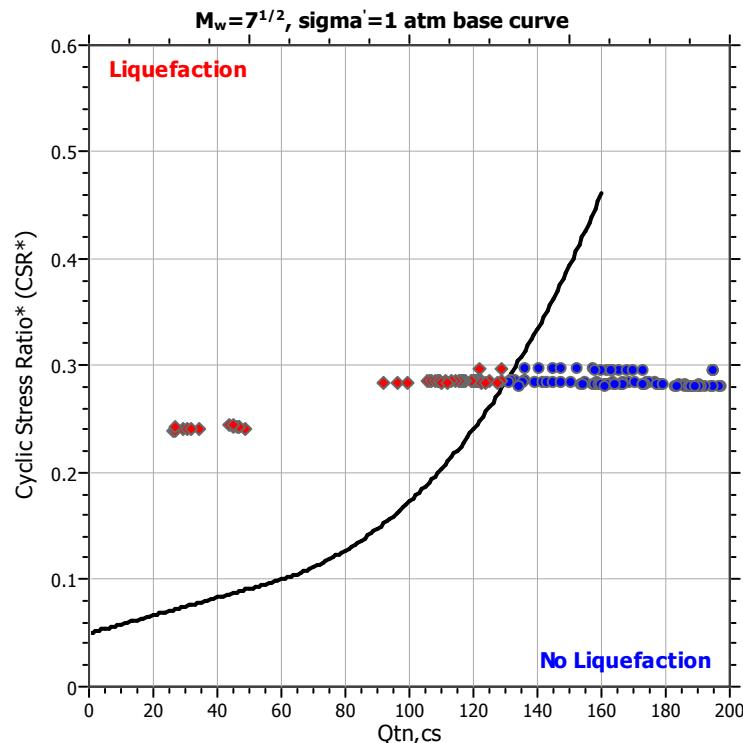
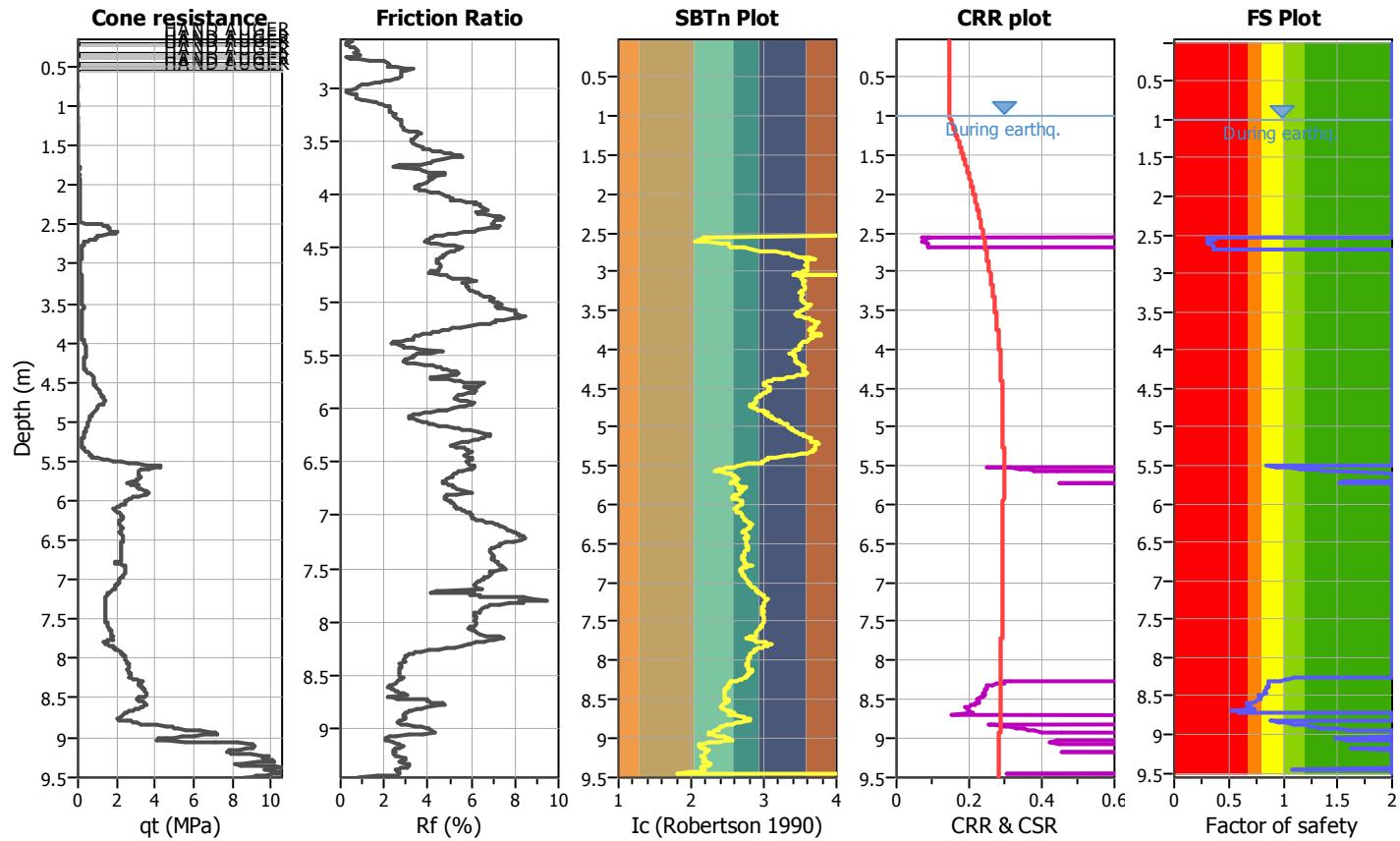
Project title : EXTENSION MARINA ETANG Z'ABRICOTS

Location : LE LAMENTIN

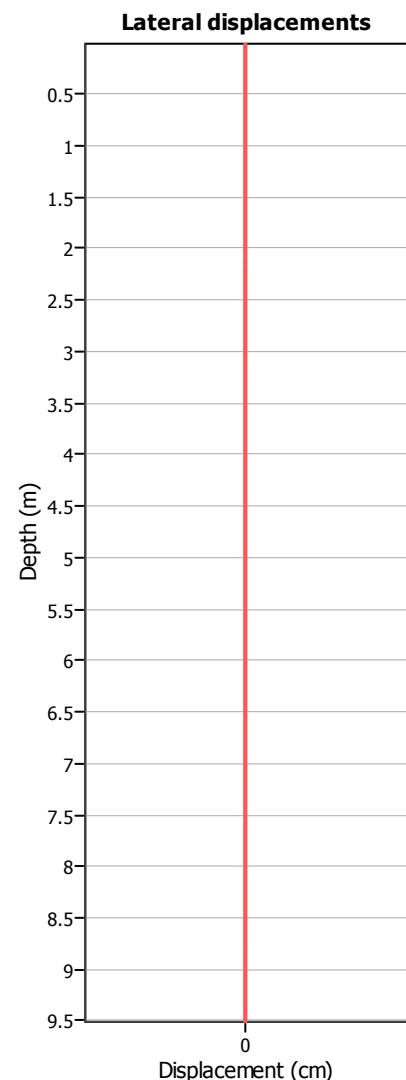
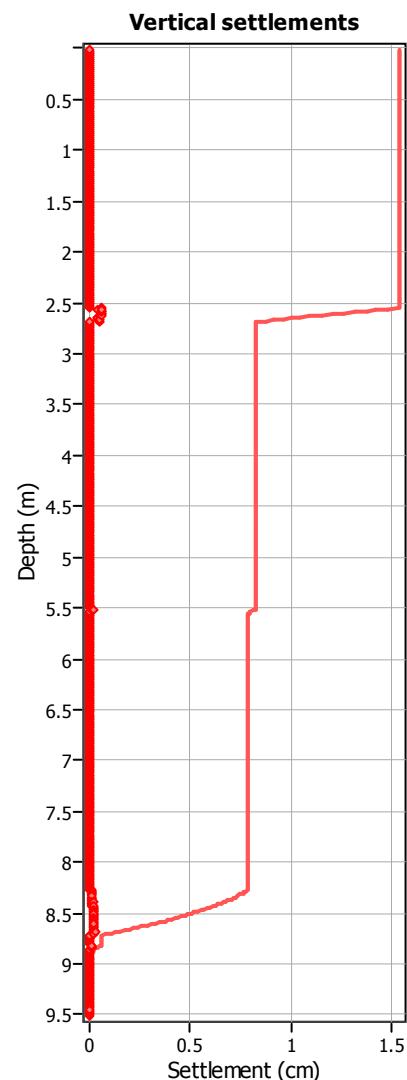
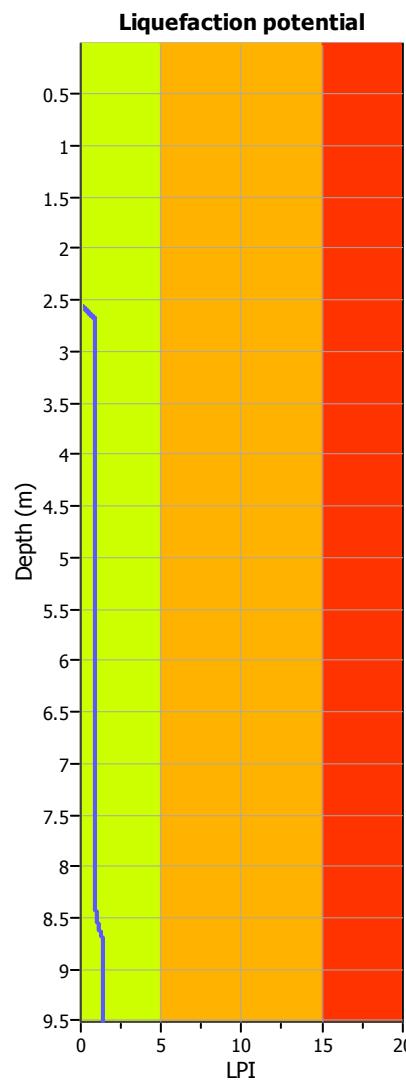
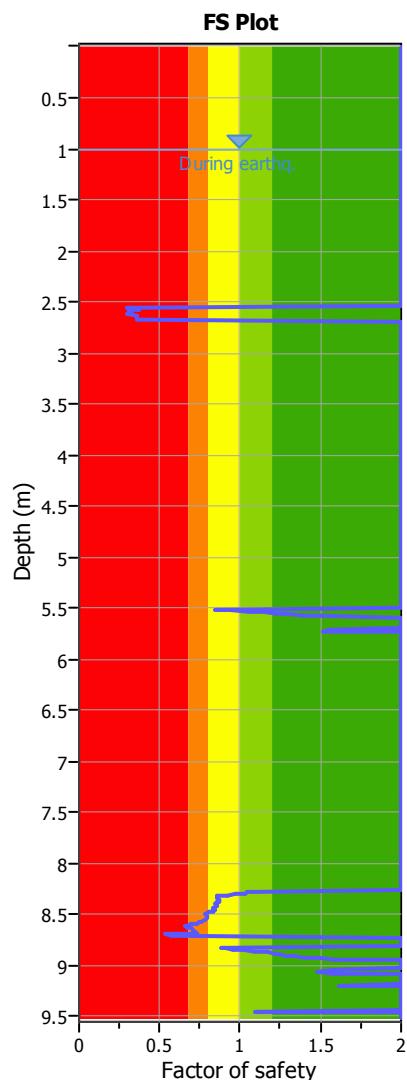
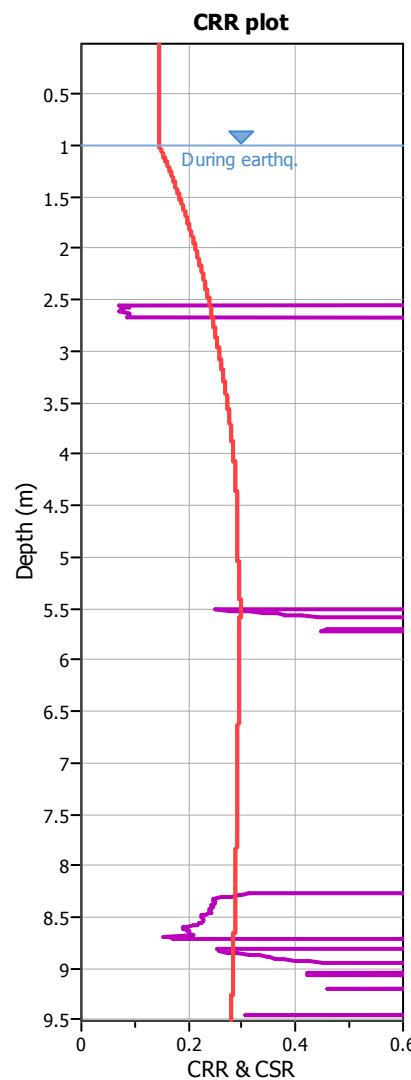
CPT file : CPTU1

Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	1.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	20.00 m
Earthquake magnitude M_w :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No		
Peak ground acceleration:	0.18	Unit weight calculation:	Based on SBT	K_0 applied:	Yes		



Zone A₁: Cyclic liquefaction likely depending on size and duration of cyclic loading
 Zone A₂: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
 Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
 Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

Liquefaction analysis overall plots**Input parameters and analysis data**

Analysis method: NCEER (1998)
 Fines correction method: NCEER (1998)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 7.50
 Peak ground acceleration: 0.18
 Depth to water table (in situ): 1.00 m

Depth to water table (erthq.): 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_0 applied: Yes
 Clay like behavior applied: Sands only
 Limit depth applied: Yes
 Limit depth: 20.00 m

F.S. color scheme

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

LPI color scheme

- █ Very high risk
- █ High risk
- █ Low risk

LIQUEFACTION ANALYSIS REPORT

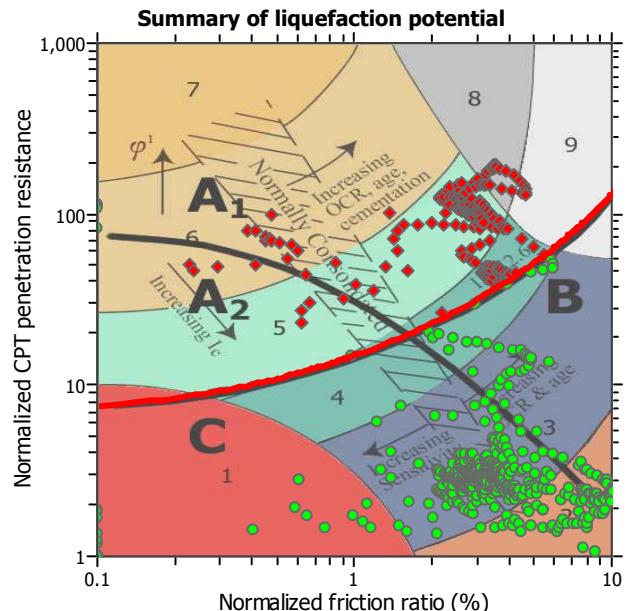
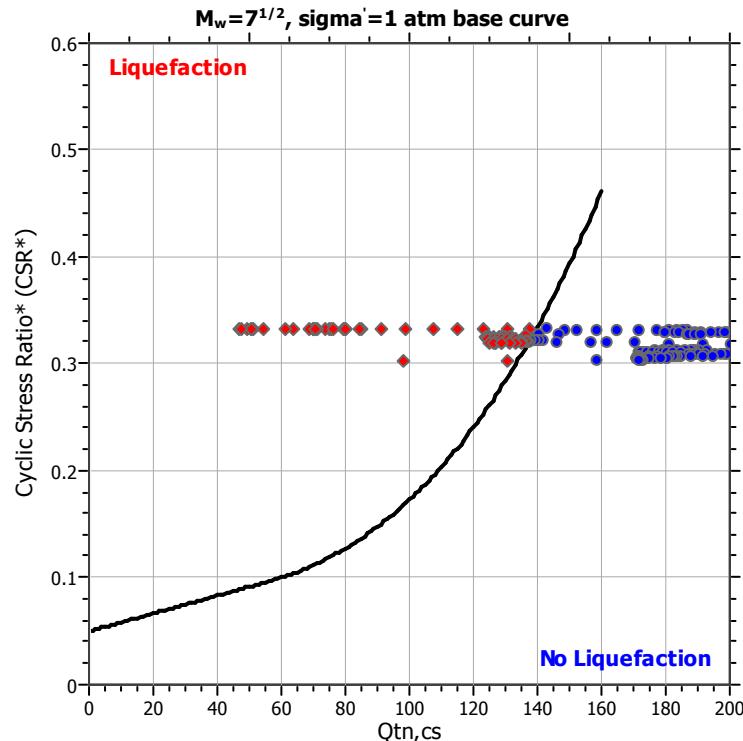
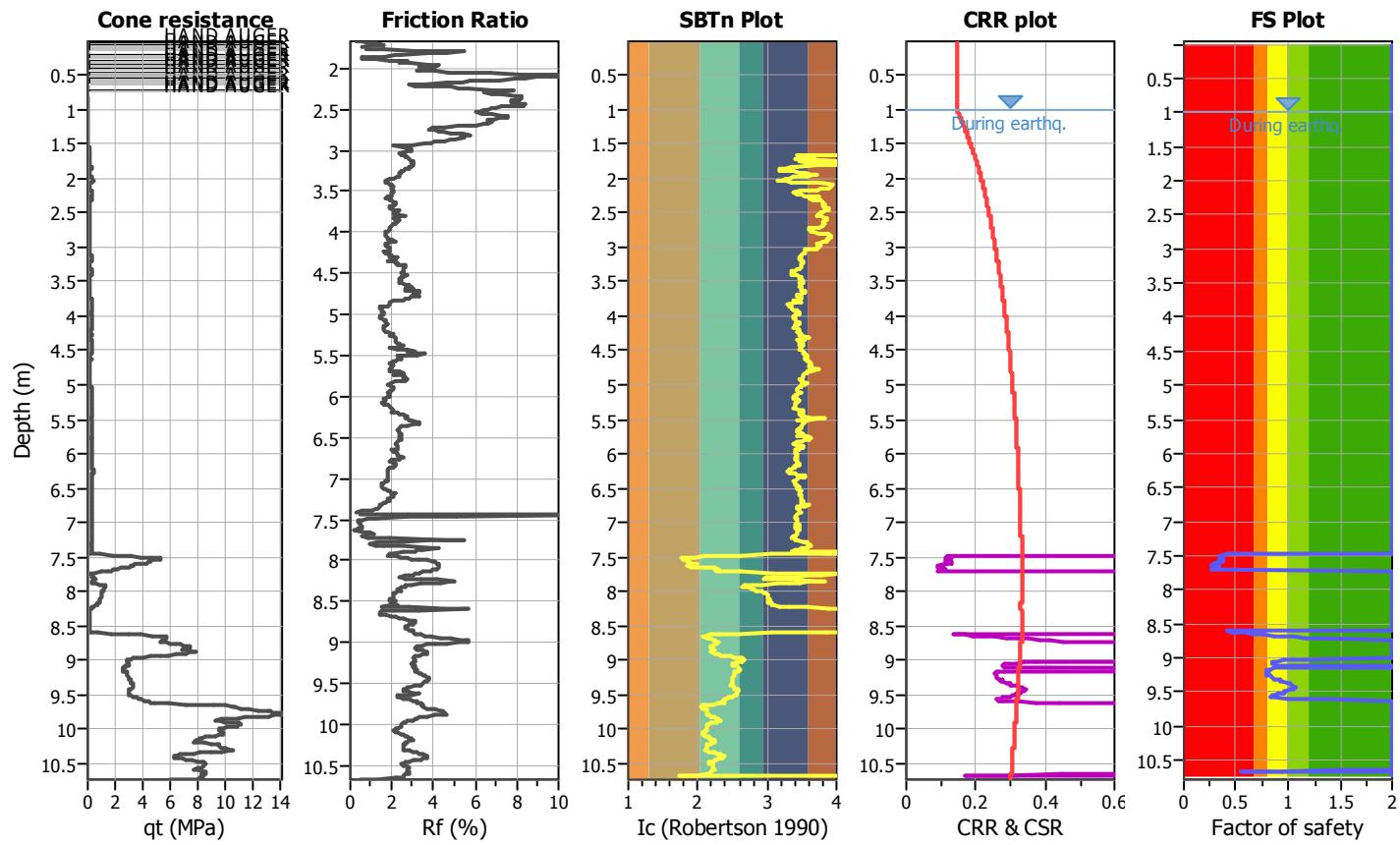
Project title : EXTENSION MARINA ETANG Z'ABRICOTS

Location : LE LAMENTIN

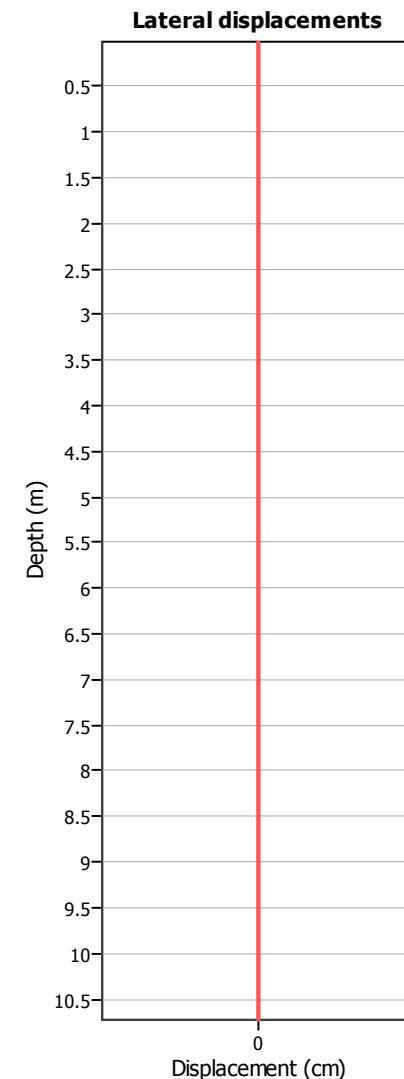
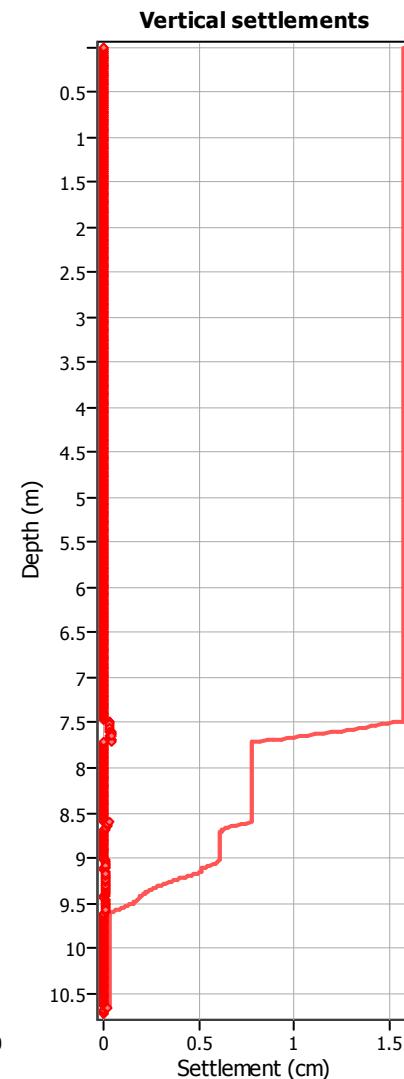
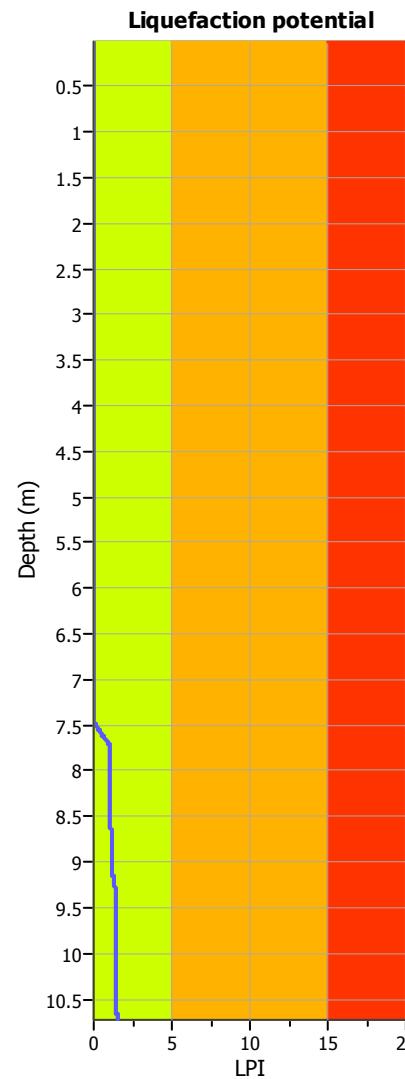
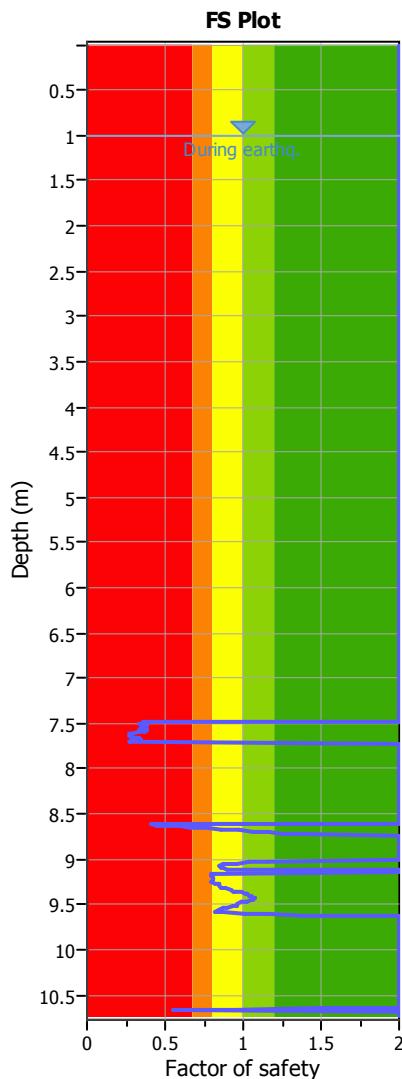
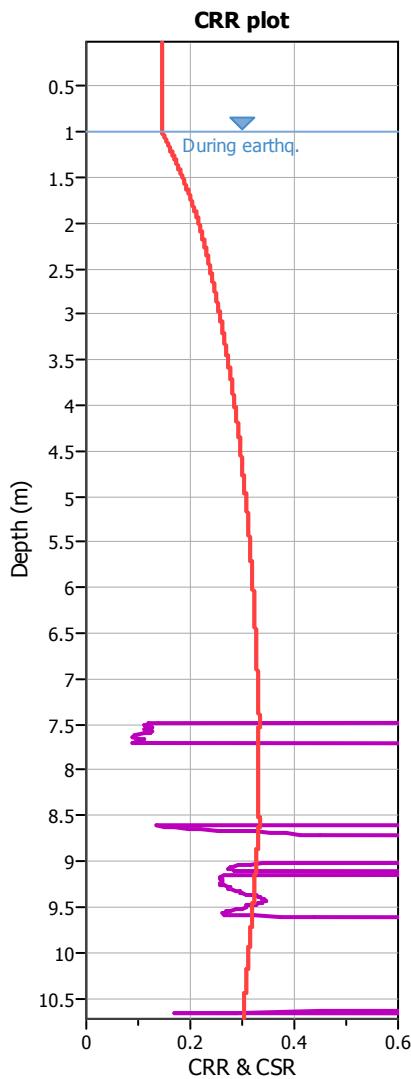
CPT file : CPTU 2

Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	1.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	20.00 m
Earthquake magnitude M_w :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No		
Peak ground acceleration:	0.18	Unit weight calculation:	Based on SBT	K_0 applied:	Yes		



Zone A₁: Cyclic liquefaction likely depending on size and duration of cyclic loading
 Zone A₂: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
 Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
 Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

Liquefaction analysis overall plots**Input parameters and analysis data**

Analysis method: NCEER (1998)
 Fines correction method: NCEER (1998)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 7.50
 Peak ground acceleration: 0.18
 Depth to water table (in situ): 1.00 m

Depth to water table (erthq.): 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_0 applied: Yes
 Clay like behavior applied: Sands only
 Limit depth applied: Yes
 Limit depth: 20.00 m

F.S. color scheme

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

LPI color scheme

- █ Very high risk
- █ High risk
- █ Low risk

LIQUEFACTION ANALYSIS REPORT

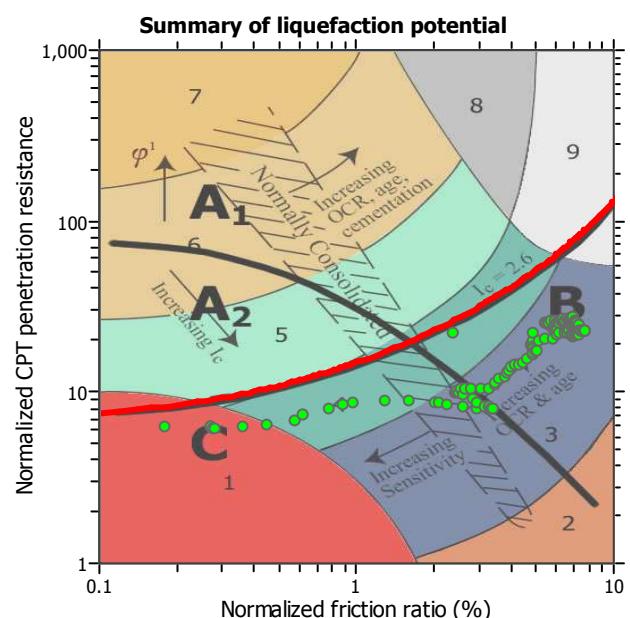
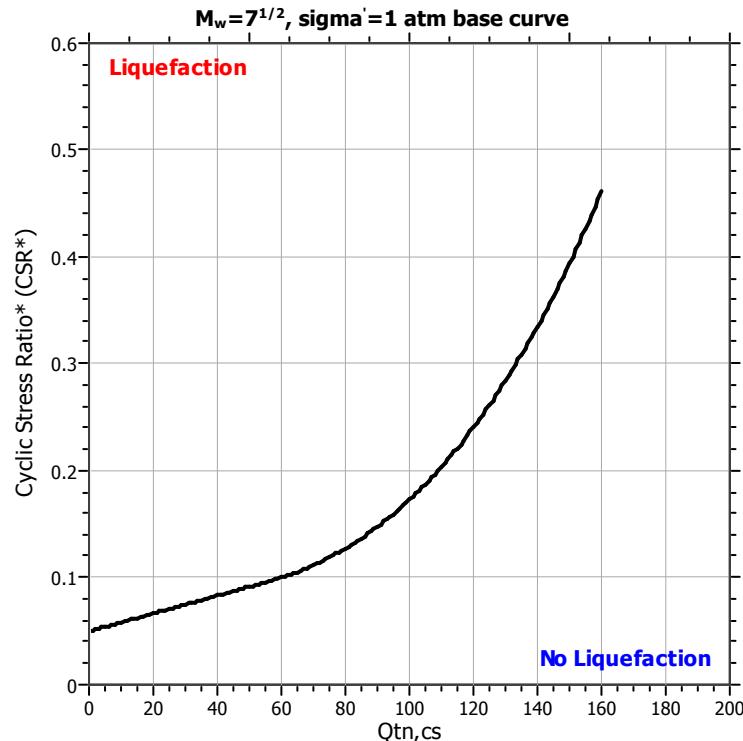
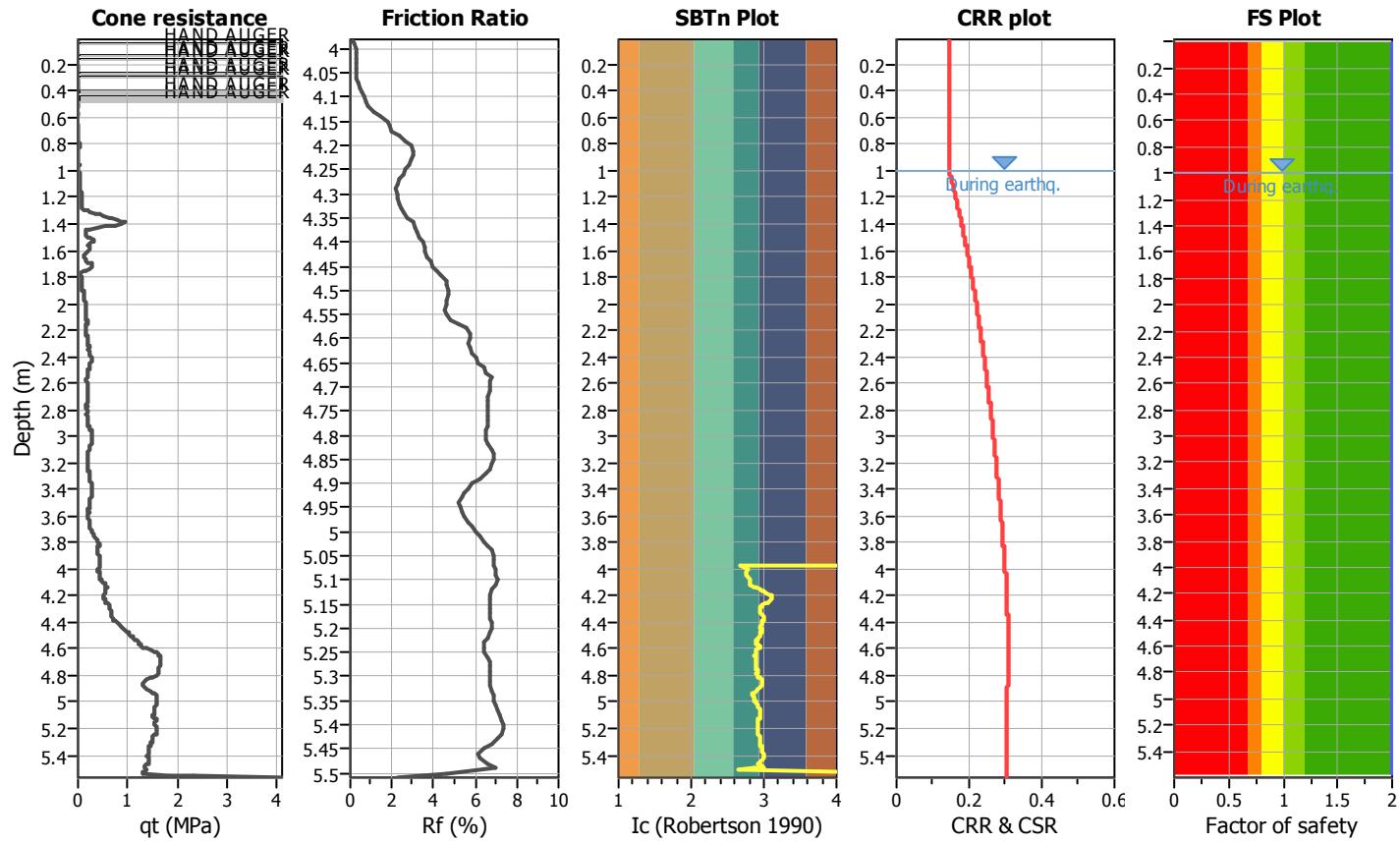
Project title : EXTENSION MARINA ETANG Z'ABRICOTS

Location : LE LAMENTIN

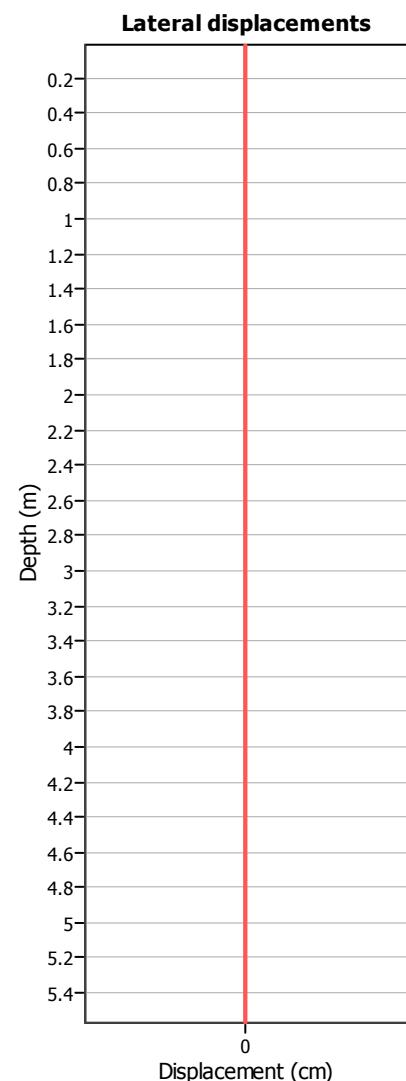
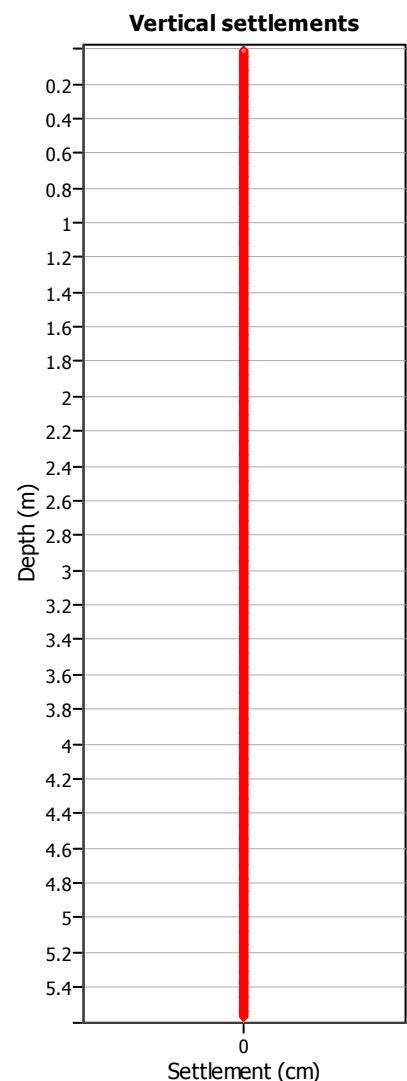
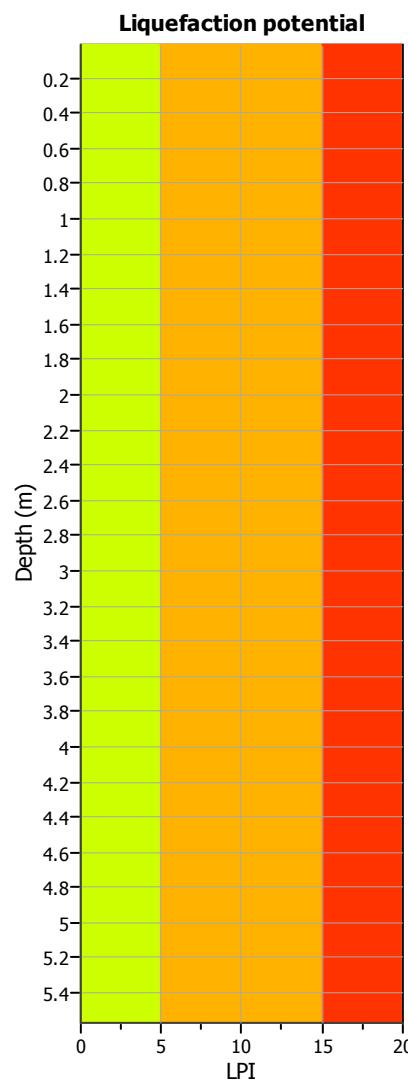
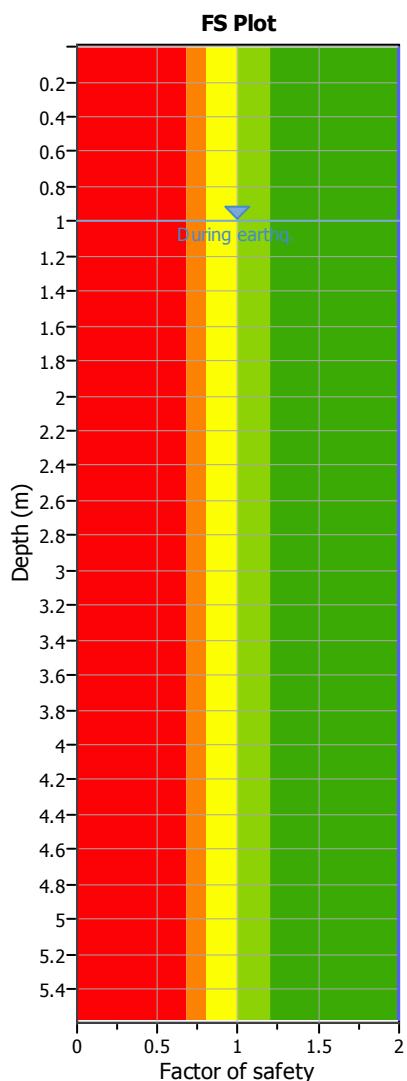
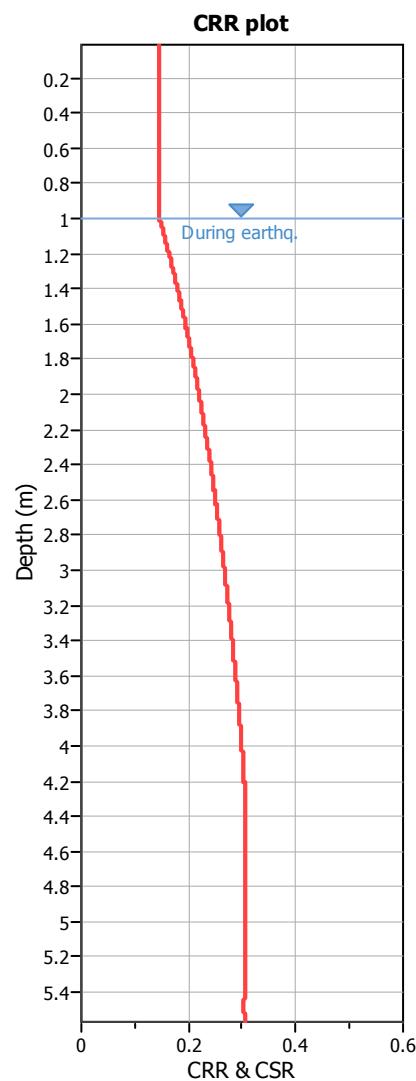
CPT file : CPTU 3

Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	1.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	20.00 m
Earthquake magnitude M_w :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No		
Peak ground acceleration:	0.18	Unit weight calculation:	Based on SBT	K_0 applied:	Yes		



Zone A₁: Cyclic liquefaction likely depending on size and duration of cyclic loading
 Zone A₂: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
 Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
 Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

Liquefaction analysis overall plots**Input parameters and analysis data**

Analysis method: NCEER (1998)
 Fines correction method: NCEER (1998)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 7.50
 Peak ground acceleration: 0.18
 Depth to water table (in situ): 1.00 m

Depth to water table (erthq.): 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_0 applied: Yes
 Clay like behavior applied: Sands only
 Limit depth applied: Yes
 Limit depth: 20.00 m

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

LIQUEFACTION ANALYSIS REPORT

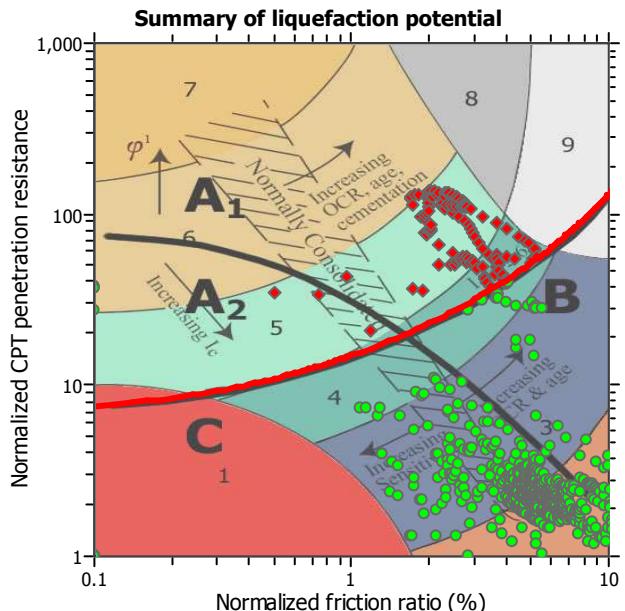
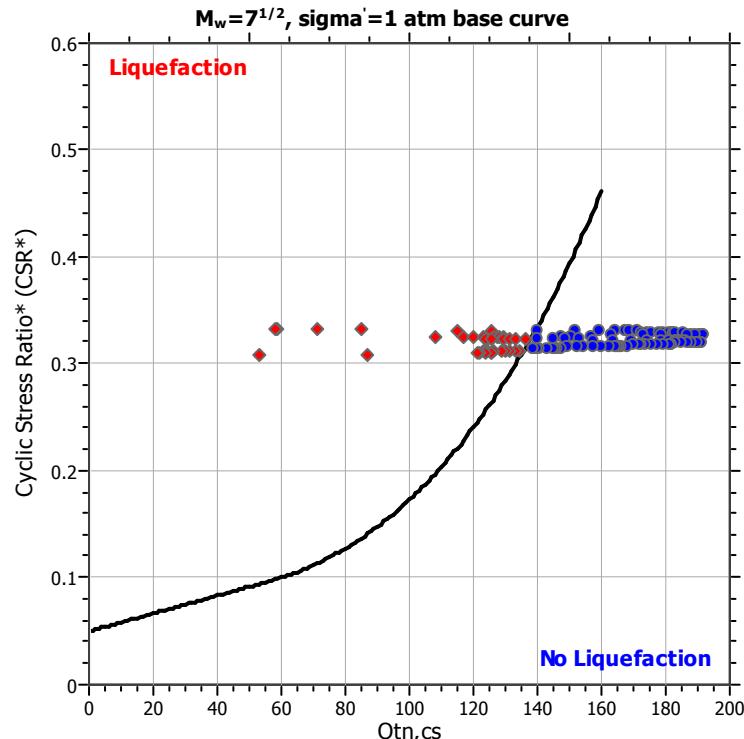
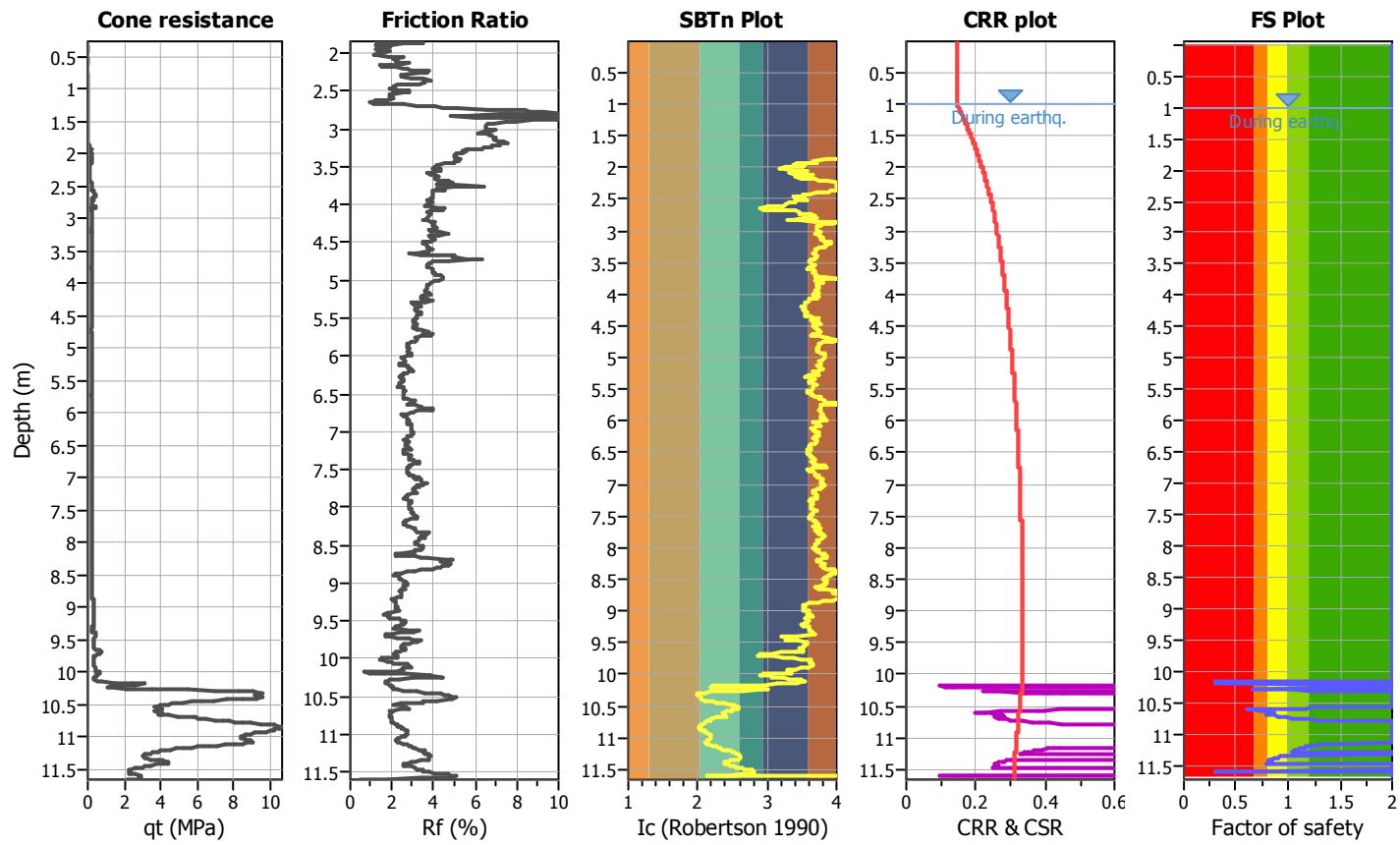
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Location : LE LAMENTIN

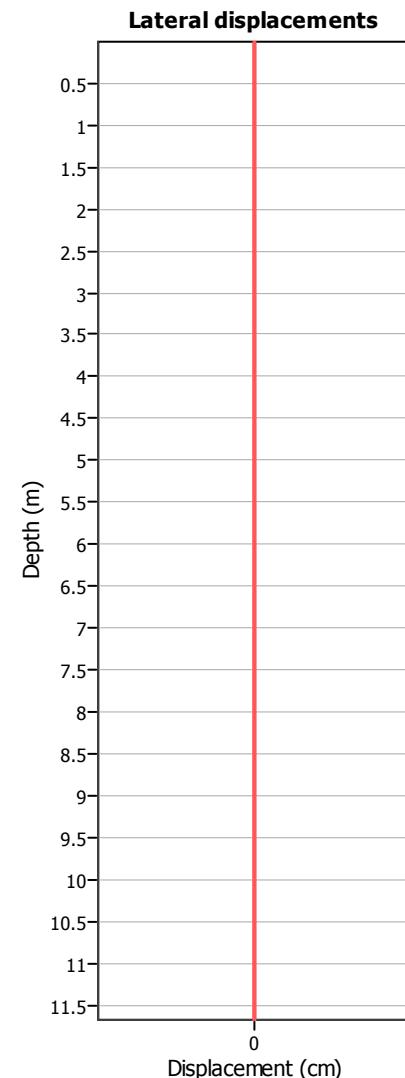
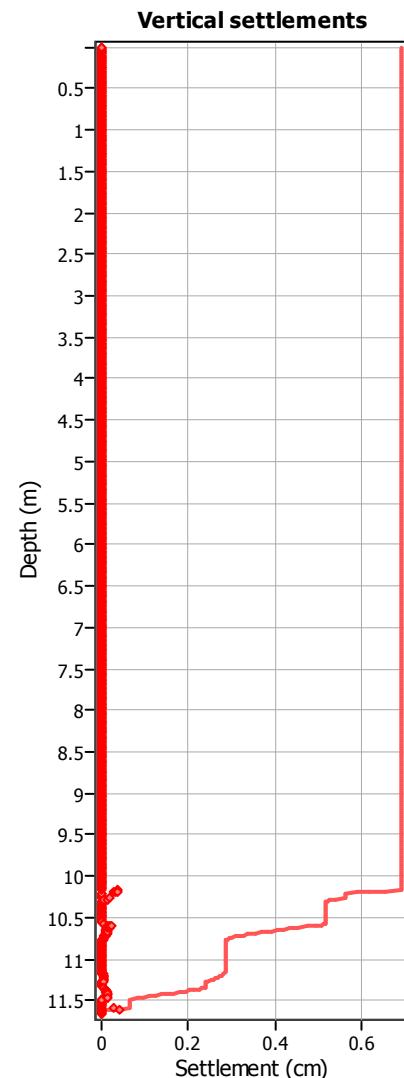
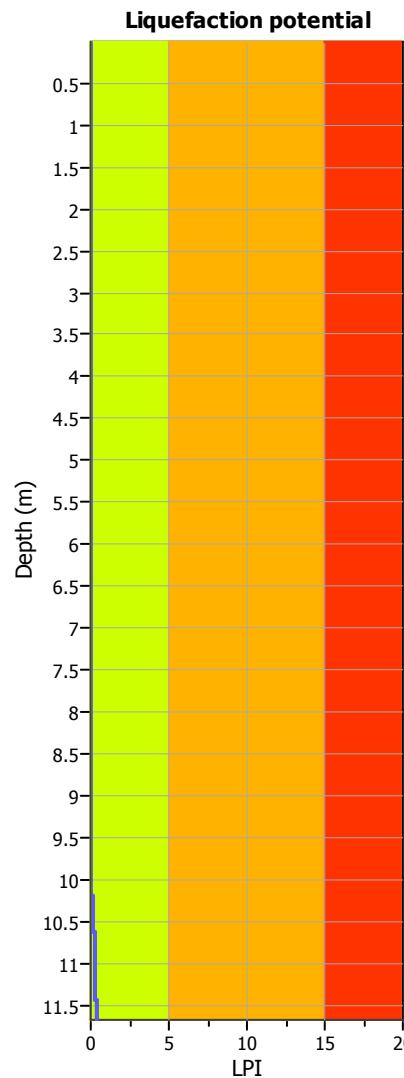
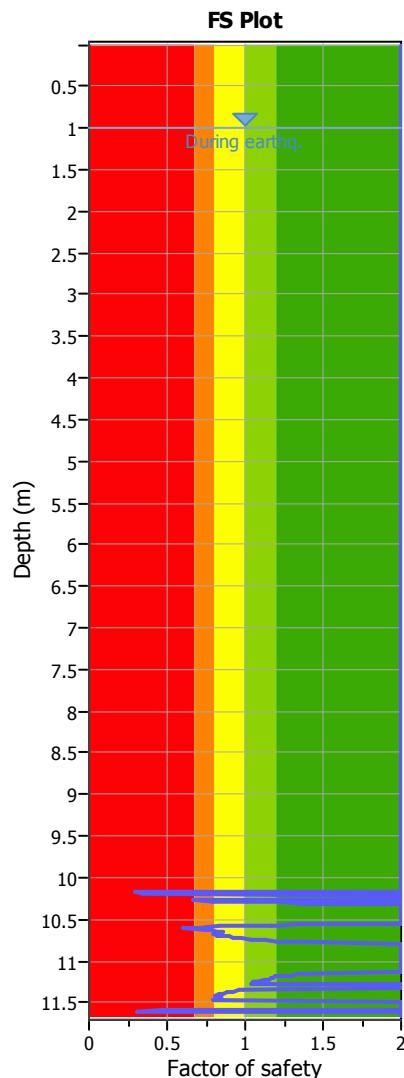
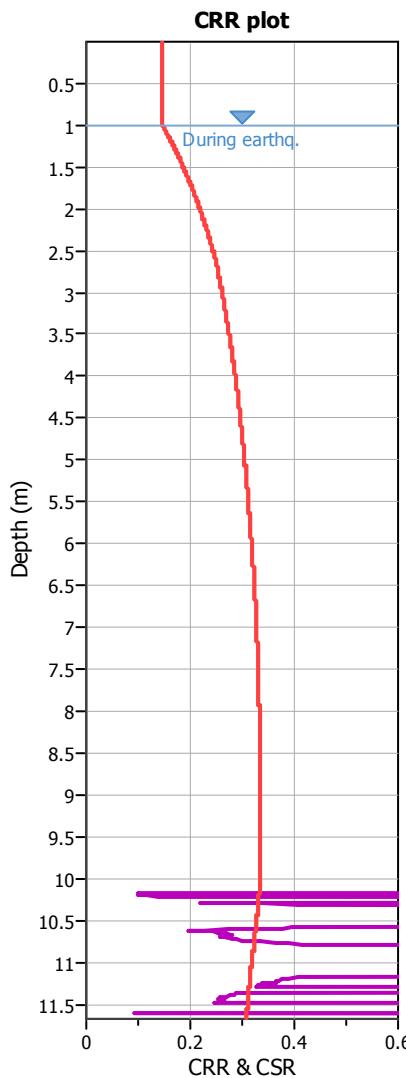
CPT file : CPTU 4

Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	1.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	20.00 m
Earthquake magnitude M_w :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No		
Peak ground acceleration:	0.18	Unit weight calculation:	Based on SBT	K_0 applied:	Yes		



Zone A₁: Cyclic liquefaction likely depending on size and duration of cyclic loading
 Zone A₂: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
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Liquefaction analysis overall plots**Input parameters and analysis data**

Analysis method: NCEER (1998)
 Fines correction method: NCEER (1998)
 Points to test: Based on Ic value
 Earthquake magnitude M_w : 7.50
 Peak ground acceleration: 0.18
 Depth to water table (in situ): 1.00 m

Depth to water table (erthq.): 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:
 Transition detect. applied: No
 K_0 applied: Yes
 Clay like behavior applied: Sands only
 Limit depth applied: Yes
 Limit depth: 20.00 m

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
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- Unlike to liquefy
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LPI color scheme

- Very high risk
- High risk
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LIQUEFACTION ANALYSIS REPORT

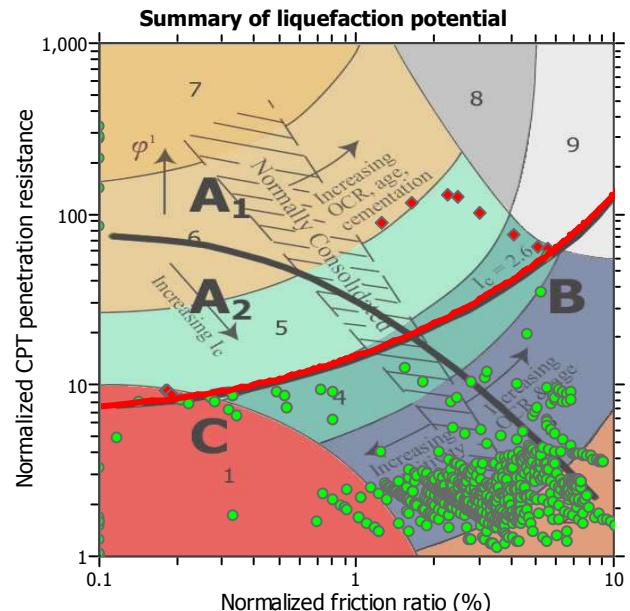
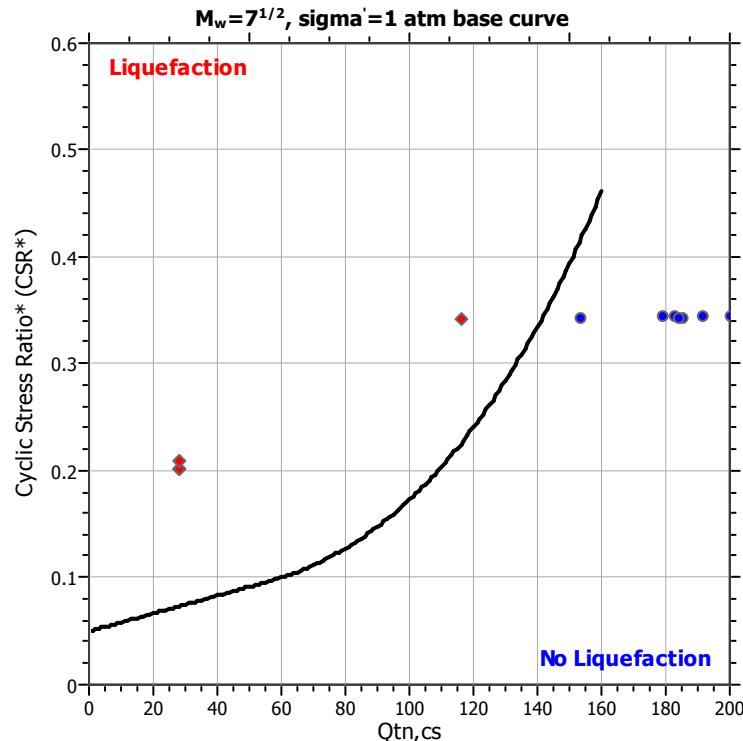
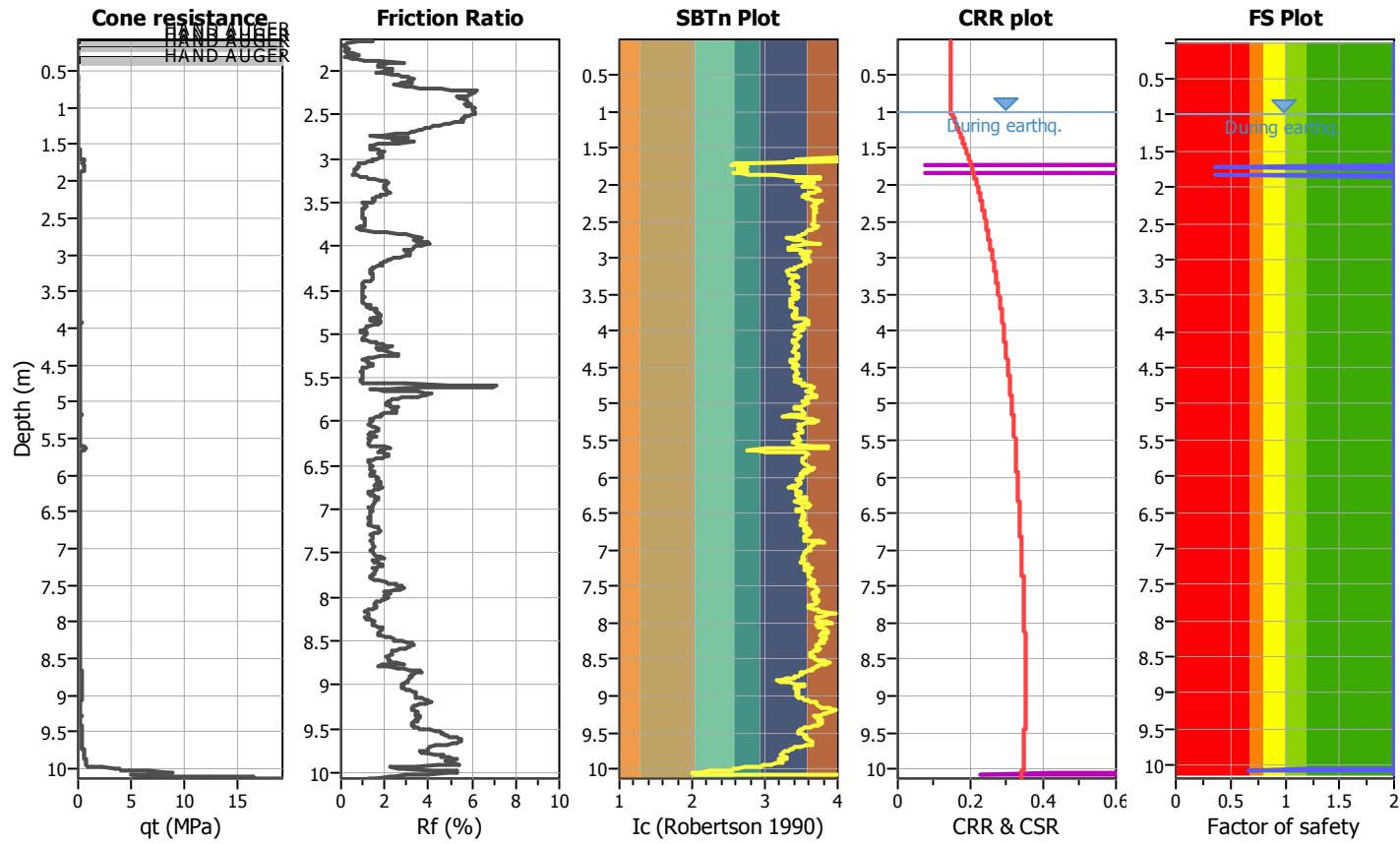
Project title : EXTENSION MARINA ETANG Z'ABRICOTS

Location : LE LAMENTIN

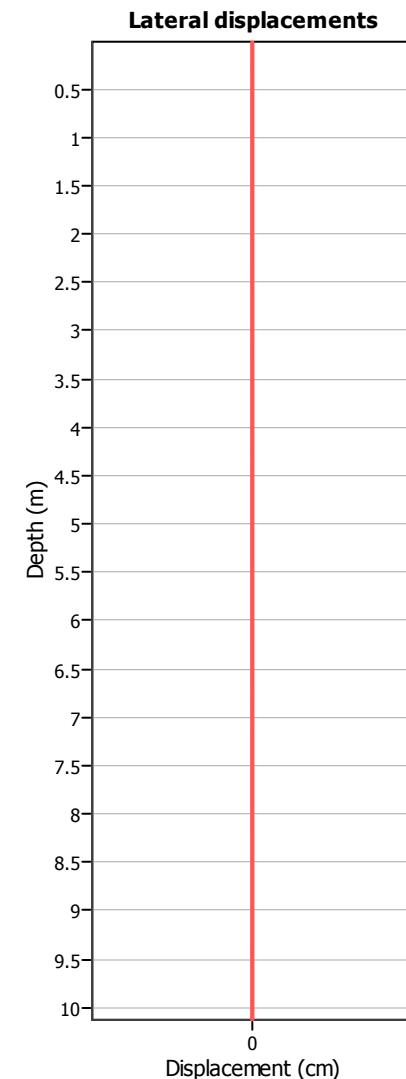
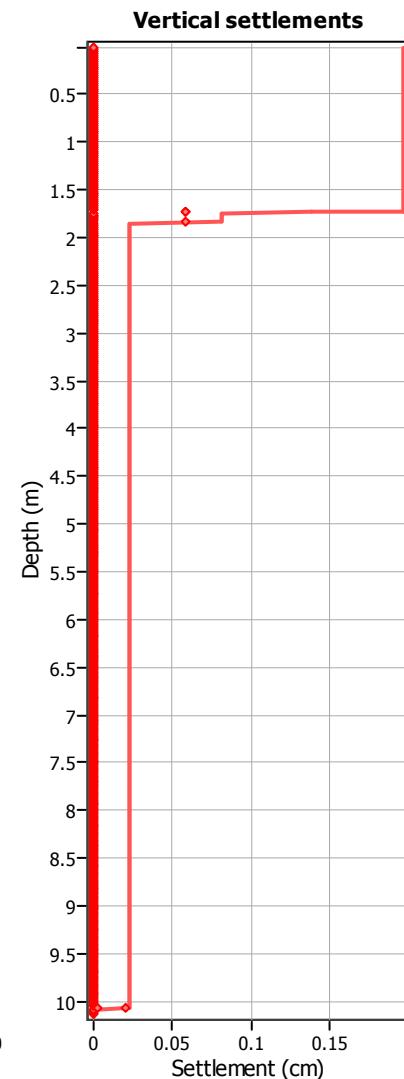
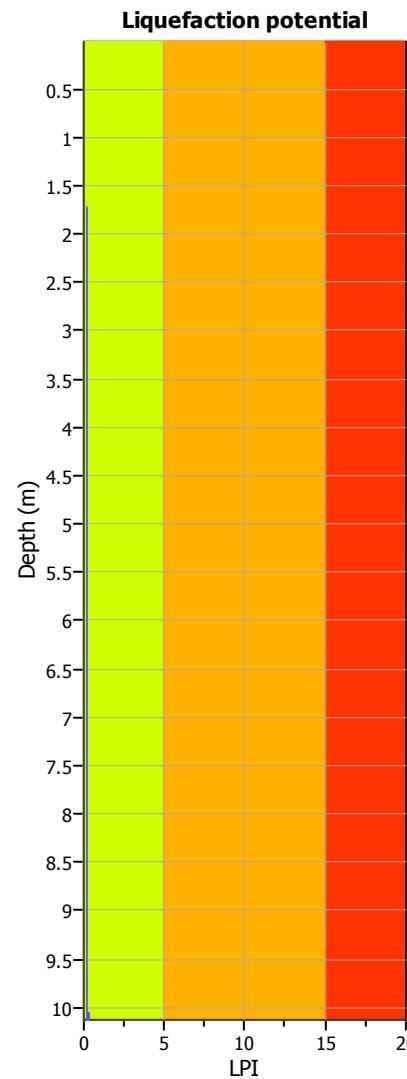
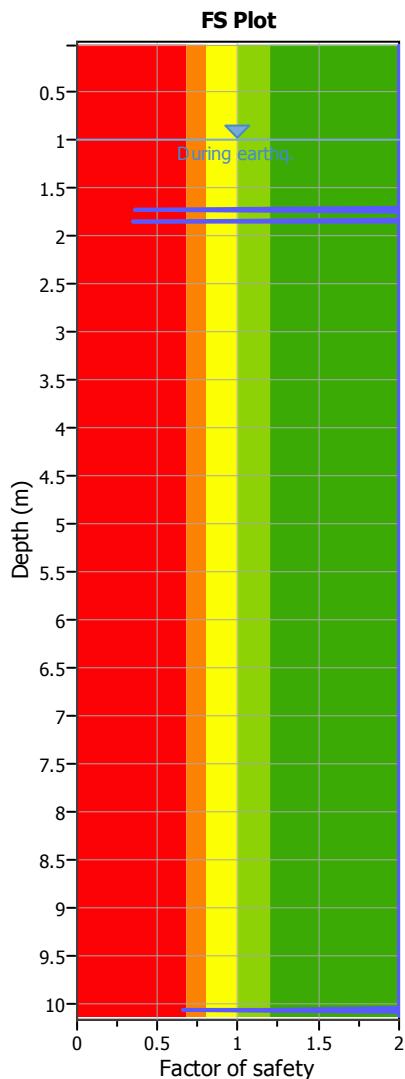
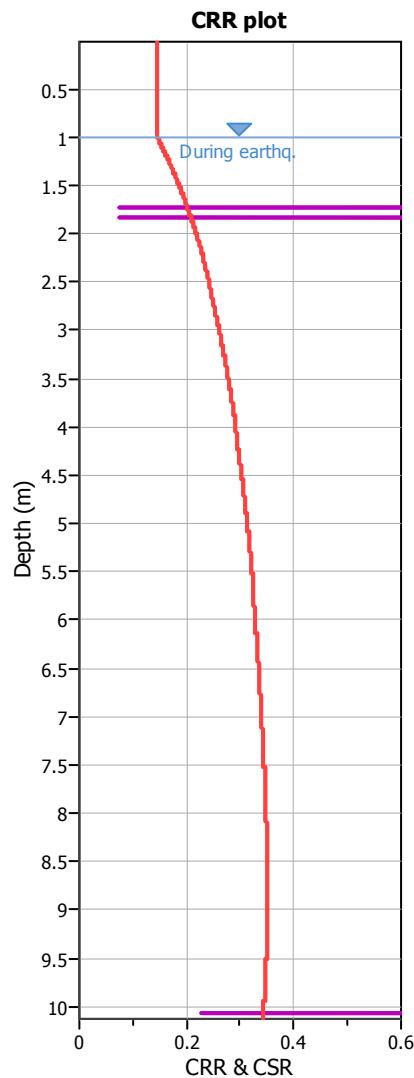
CPT file : CPTU 5

Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	1.00 m	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	20.00 m
Earthquake magnitude M_w :	7.50	Ic cut-off value:	2.60	Trans. detect. applied:	No		
Peak ground acceleration:	0.18	Unit weight calculation:	Based on SBT	K_0 applied:	Yes		



Zone A₁: Cyclic liquefaction likely depending on size and duration of cyclic loading
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Liquefaction analysis overall plots**Input parameters and analysis data**

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 Fines correction method: NCEER (1998)
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 Depth to water table (in situ): 1.00 m

Depth to water table (erthq.): 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:
 Transition detect. applied: No
 K_0 applied: Yes
 Clay like behavior applied: Sands only
 Limit depth applied: Yes
 Limit depth: 20.00 m

F.S. color scheme

- █ Almost certain it will liquefy
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LPI color scheme

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