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Emiro Giunta - Prot. 23/10/2024.1196009.E Copia conforme dell'originale sottoscritto digitalmente da RICCIERI MATTEO, CALEFFI CARLO

Luglio 2024

Monticelli d'Ongina  
Provincia di Piacenza

## ALLEGATO 4 VERIFICHE A LIQUEFAZIONE

**Impianto di produzione di energia  
elettrica da fonte fotovoltaica**

Committente

Geologi  
Dr. Carlo Caleffi  
Dr. Francesco Cerutti

Collaboratori  
Dr. Matteo Bertolotti



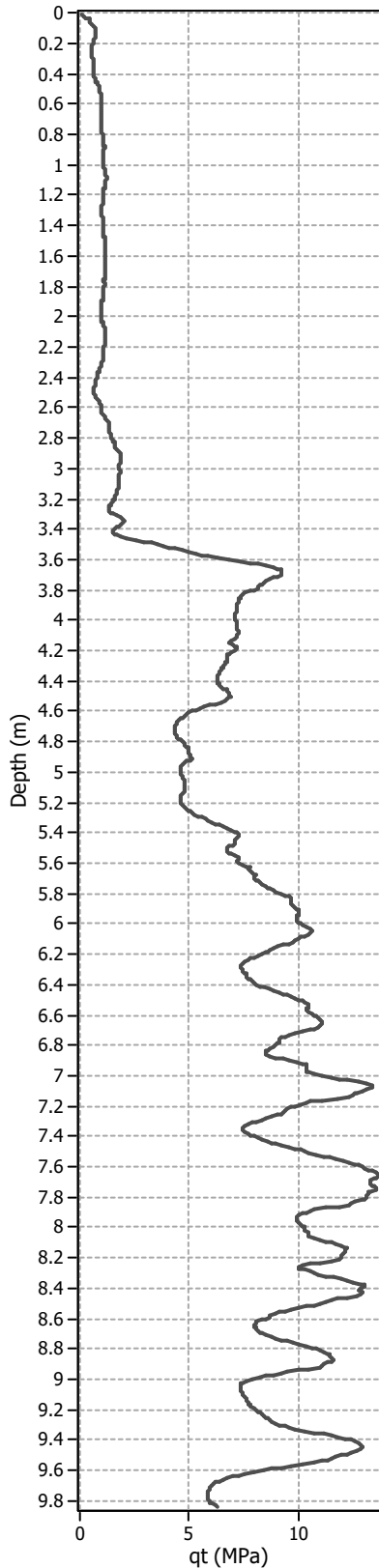
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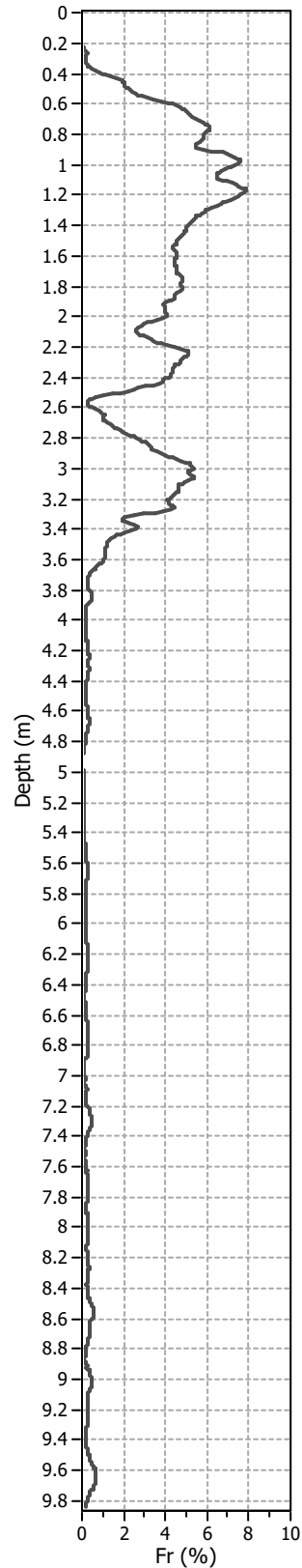
**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica  
**Location:** Monticelli d'Ongina

**CPT: 1.10**  
Total depth: 9.84 m

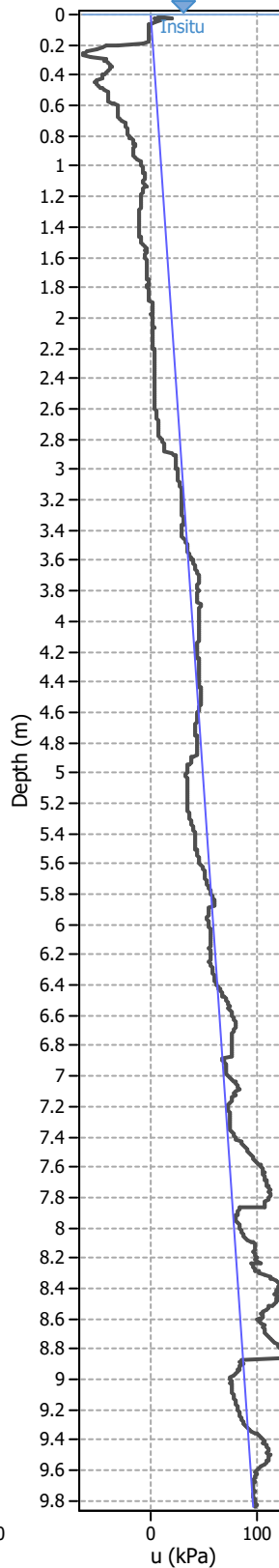
**Cone resistance**



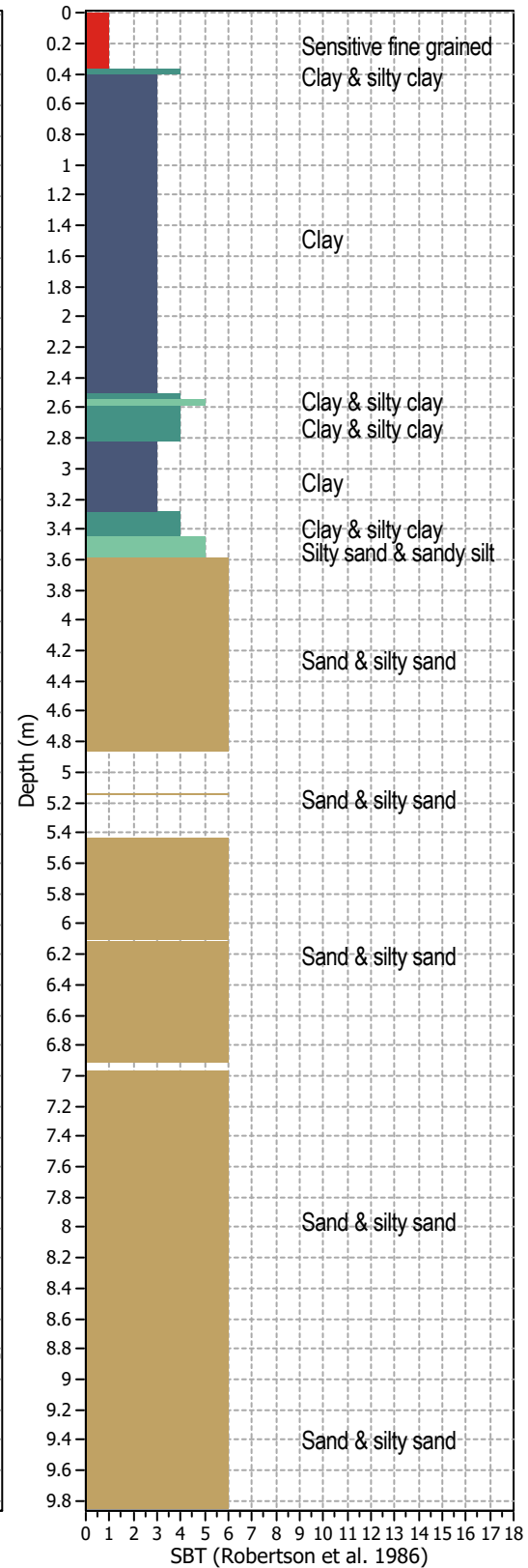
**Norm. friction ratio**



**Pore pressure**



**Soil Behaviour Type**



Analysis method: NCEER (1998)  
Fines correction method: NCEER (1998)  
Points to test: Based on Ic value  
Earthquake magnitude  $M_w$ : 5.60  
Peak ground acceleration: 0.13

G.W.T. (in-situ): 0.00 m  
G.W.T. (earthq.): 0.00 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  
Trans. detect. applied: No  
 $K_\sigma$  applied: Yes

Clay like behavior applied: Sands only  
Limit depth applied: No  
Limit depth: N/A  
MSF method: Method based



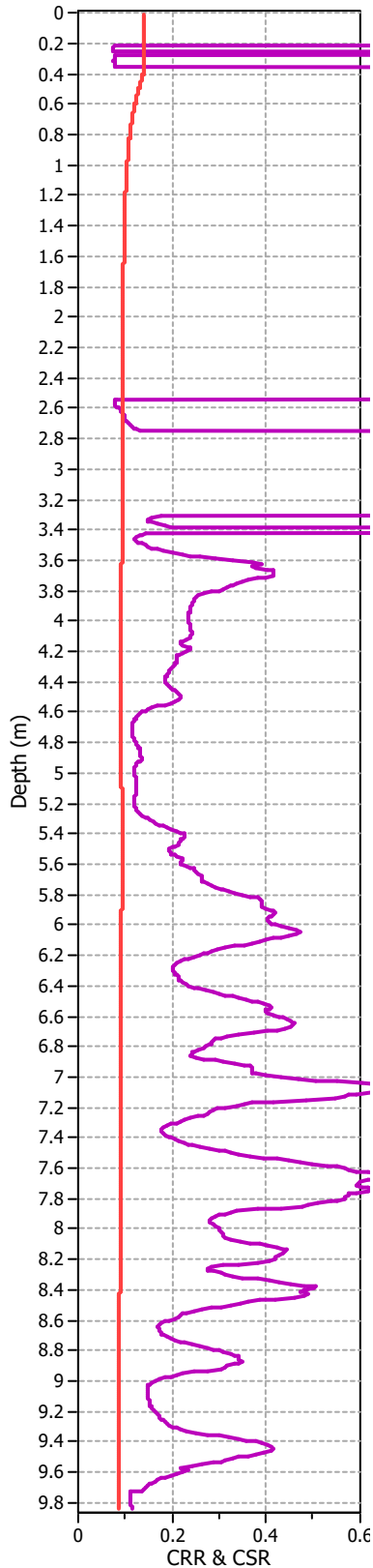
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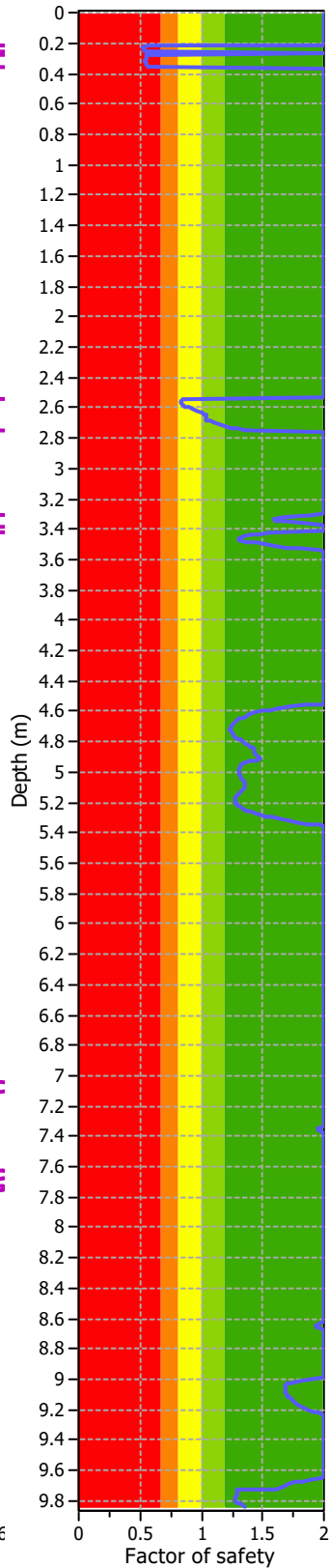
**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica  
**Location:** Monticelli d'Ongina

**CPT: 1.10**  
Total depth: 9.84 m

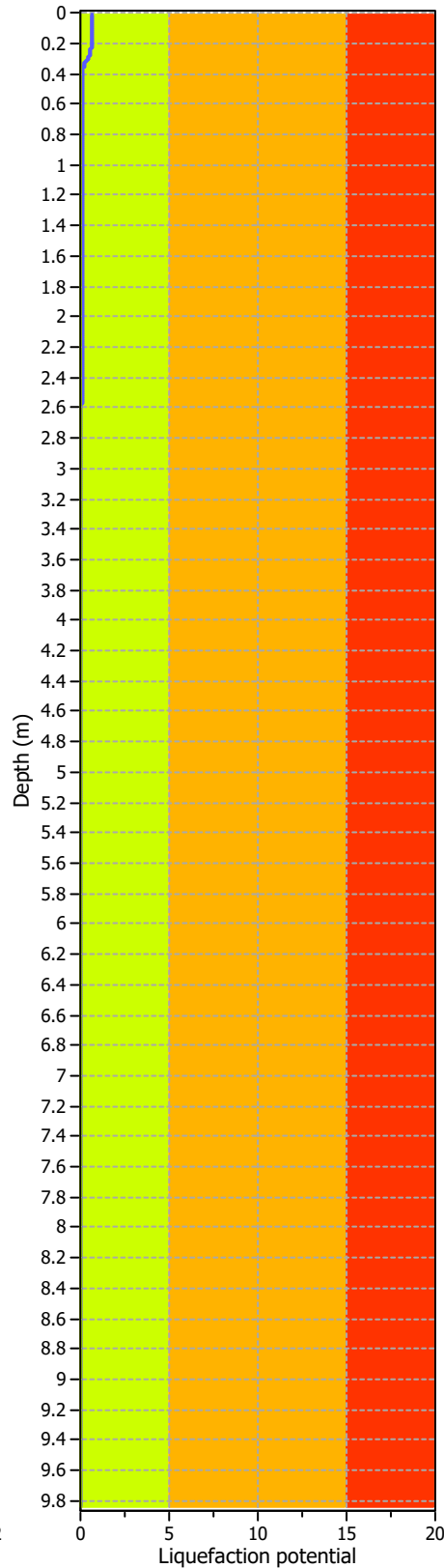
**CRR plot**



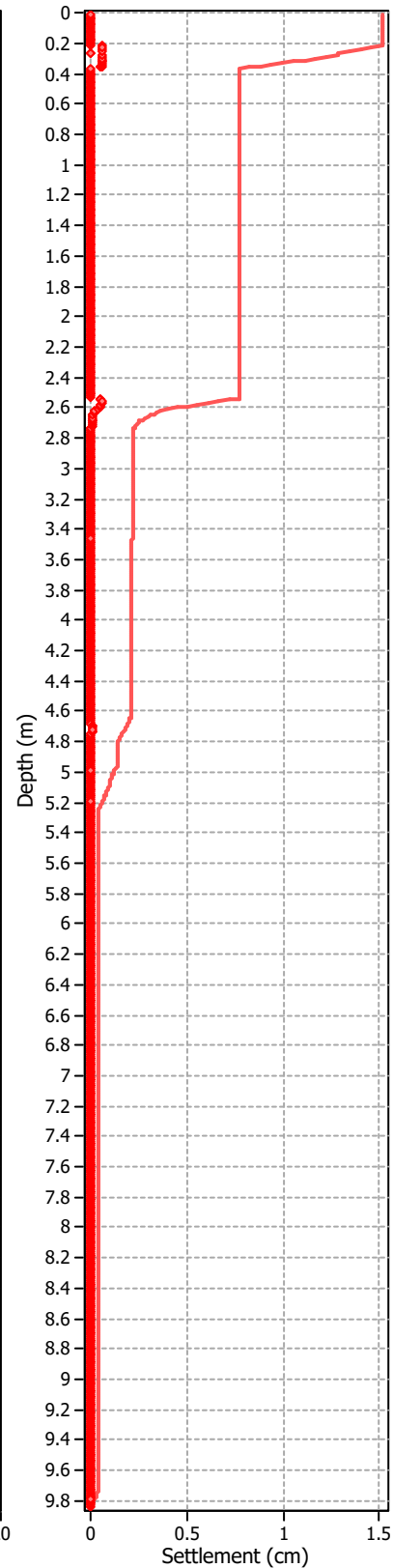
**FS Plot**



**LPI**



**Vertical settlements**



Analysis method: NCEER (1998)  
Fines correction method: NCEER (1998)  
Points to test: Based on Ic value  
Earthquake magnitude  $M_w$ : 5.60  
Peak ground acceleration: 0.13

G.W.T. (in-situ): 0.00 m  
G.W.T. (earthq.): 0.00 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  
Trans. detect. applied: No  
 $K_0$  applied: Yes

Clay like behavior applied: Sands only  
Limit depth applied: No  
Limit depth: N/A  
MSF method: Method based



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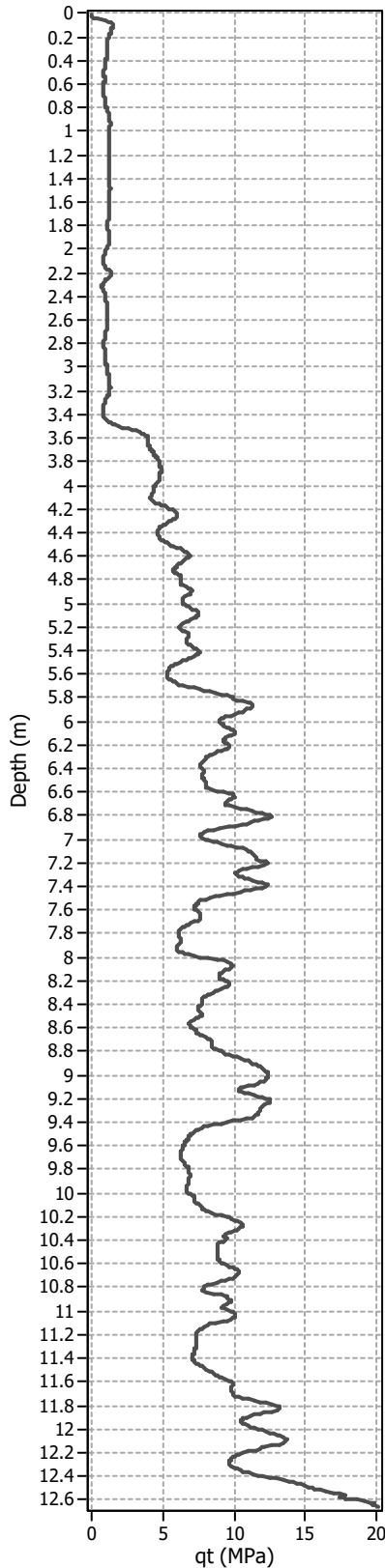
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**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica  
**Location:** Monticelli d'Ongina

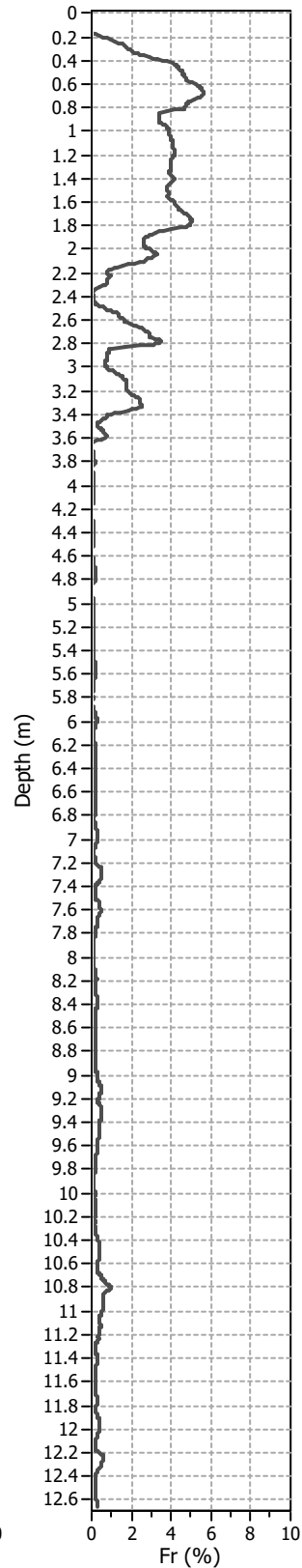
**CPT: 1.20**

Total depth: 12.66 m

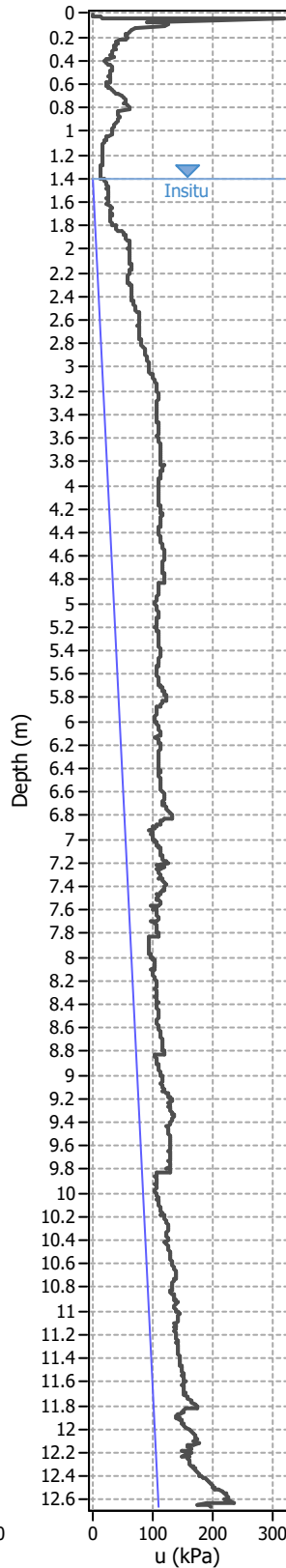
**Cone resistance**



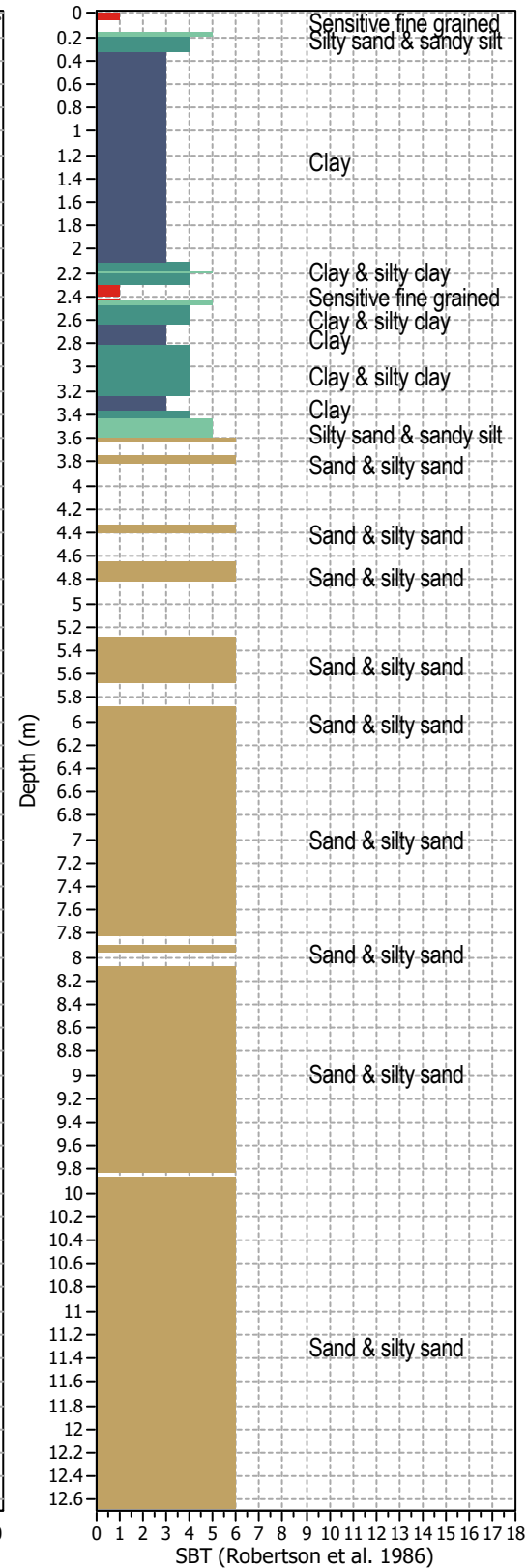
**Norm. friction ratio**



**Pore pressure**



**Soil Behaviour Type**



Analysis method: NCEER (1998)  
Fines correction method: NCEER (1998)  
Points to test: Based on Ic value  
Earthquake magnitude  $M_w$ : 5.60  
Peak ground acceleration: 0.14

G.W.T. (in-situ): 1.40 m  
G.W.T. (earthq.): 1.40 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  
Trans. detect. applied: No  
 $K_0$  applied: Yes

Clay like behavior applied: Sands only  
Limit depth applied: No  
Limit depth: N/A  
MSF method: Method based



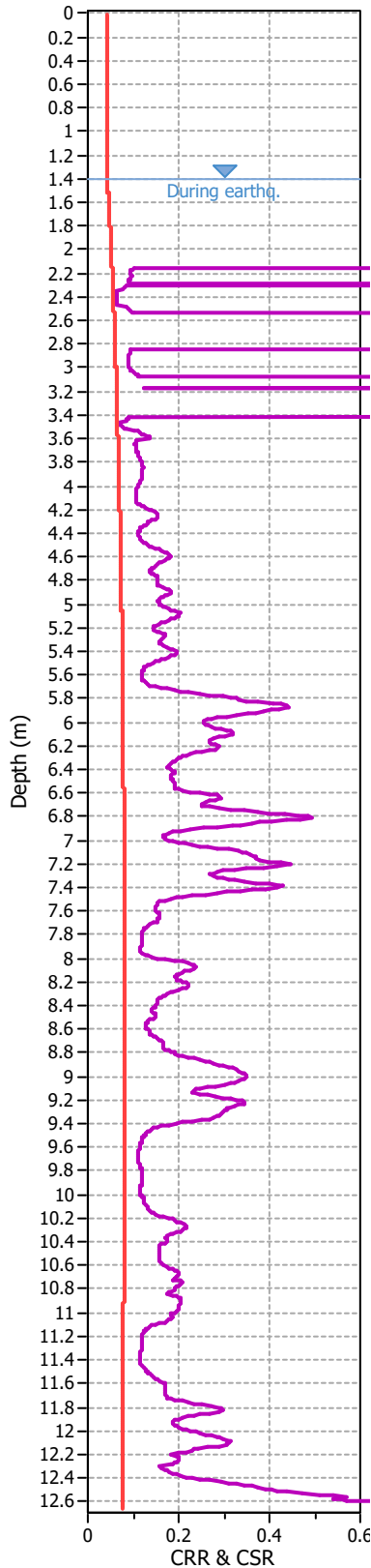
**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica

**Location:** Monticelli d'Ongina

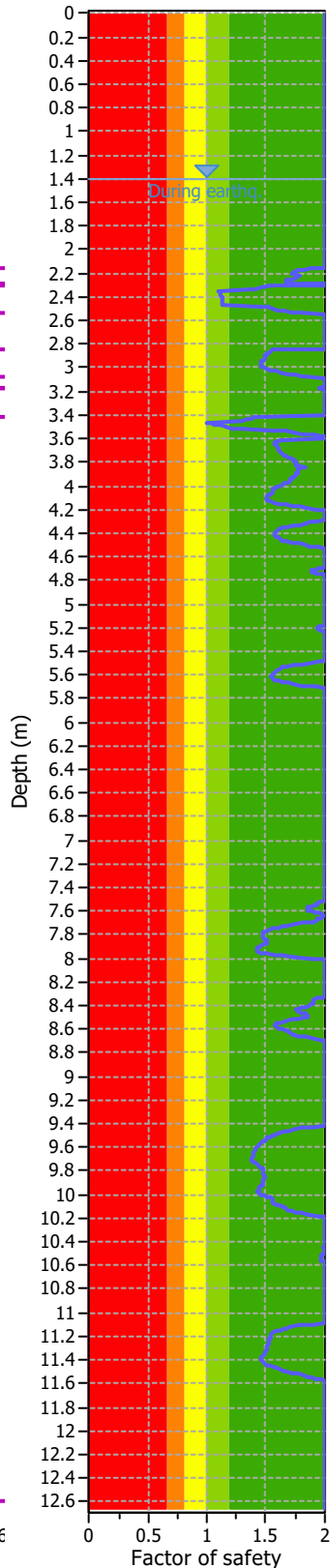
**CPT: 1.20**

Total depth: 12.66 m

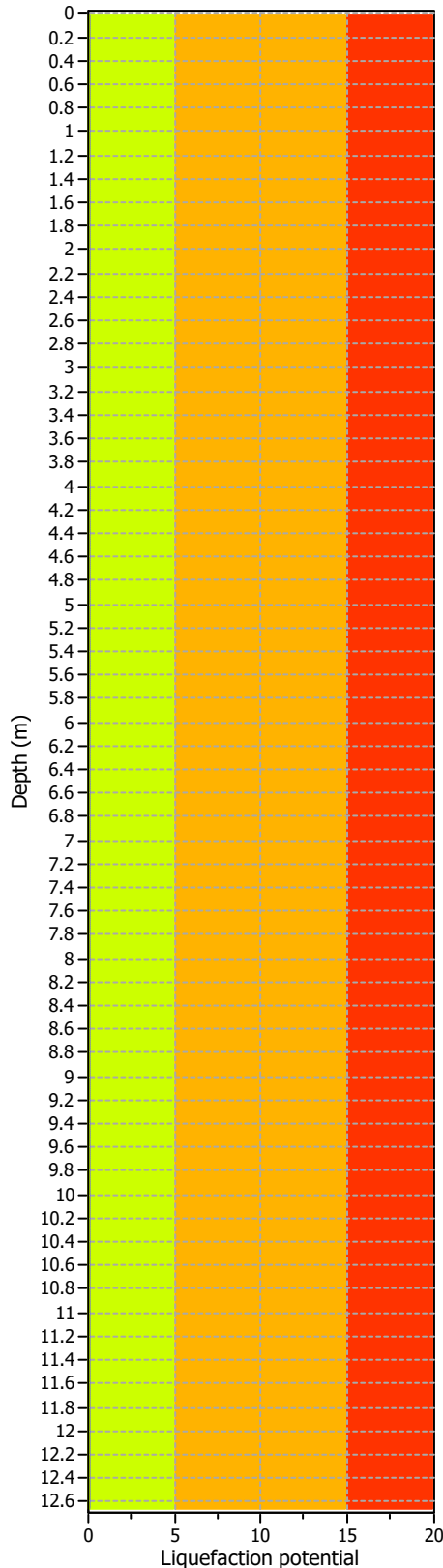
**CRR plot**



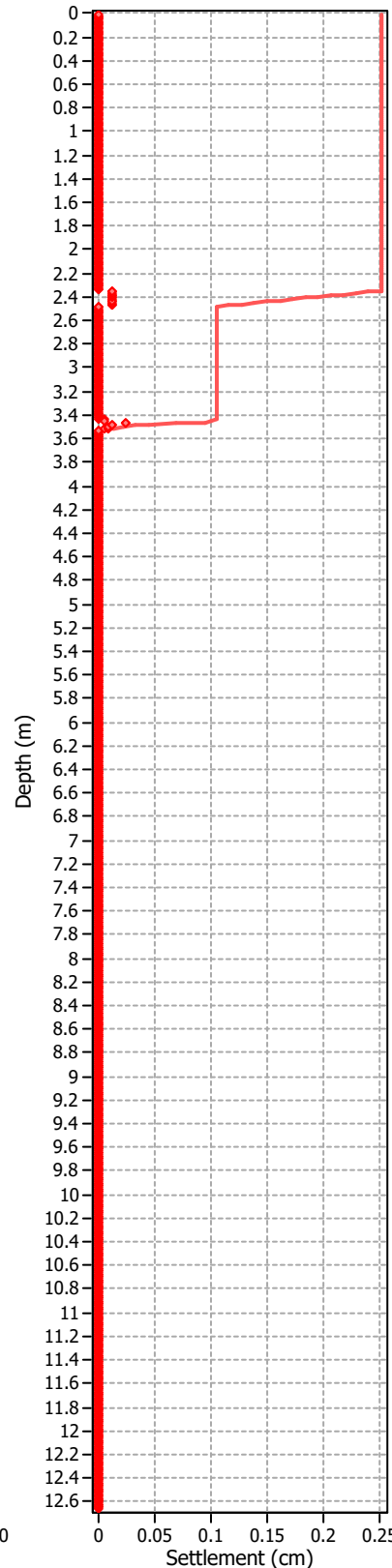
**FS Plot**



**LPI**



**Vertical settlements**



Analysis method: NCEER (1998)  
Fines correction method: NCEER (1998)  
Points to test: Based on Ic value  
Earthquake magnitude  $M_w$ : 5.60  
Peak ground acceleration: 0.14

G.W.T. (in-situ): 1.40 m  
G.W.T. (earthq.): 1.40 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  
Trans. detect. applied: No  
 $K_0$  applied: Yes

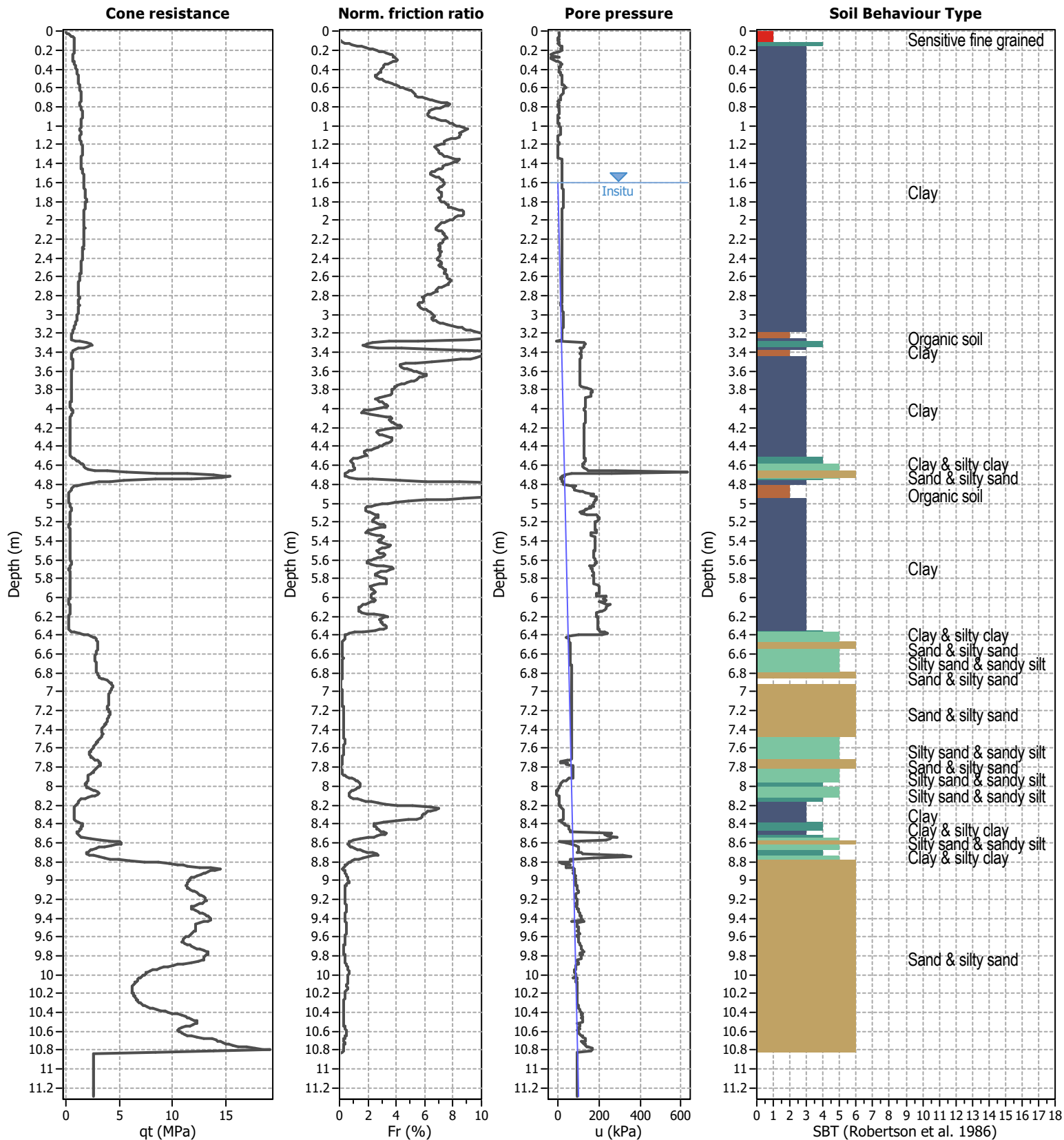
Clay like behavior applied: Sands only  
Limit depth applied: No  
Limit depth: N/A  
MSF method: Method based





**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica  
**Location:** Monticelli d'Ongina

**CPT: 1.30**  
Total depth: 11.29 m



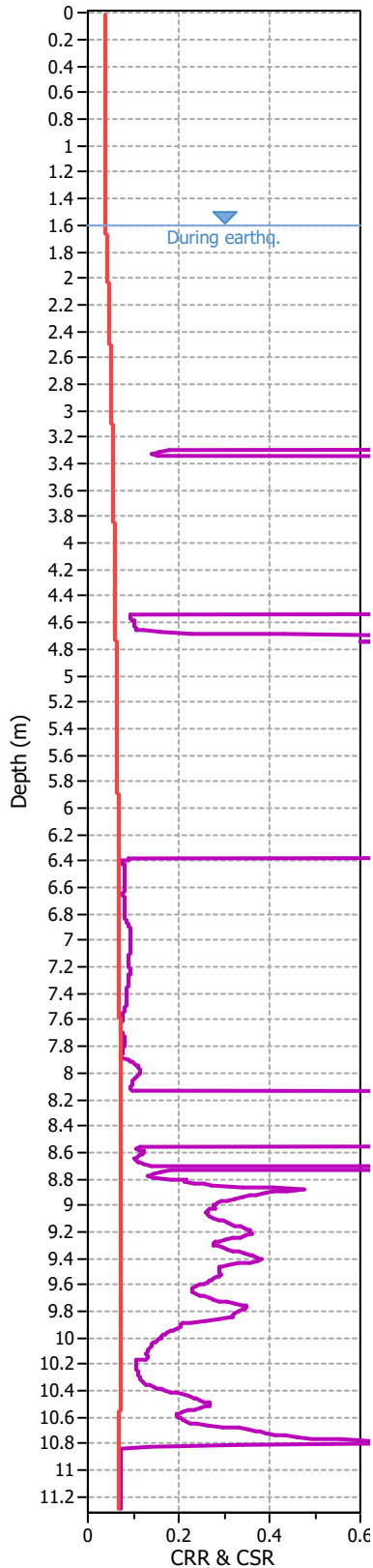
Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.60 m	Use fill:	No	Clay like behavior	
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	1.60 m	Fill height:	N/A	applied:	Sands only
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth applied:	No
Earthquake magnitude $M_w$ :	5.60	Ic cut-off value:	2.60	Trans. detect. applied:	No	Limit depth:	N/A
Peak ground acceleration:	0.13	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes	MSF method:	Method based



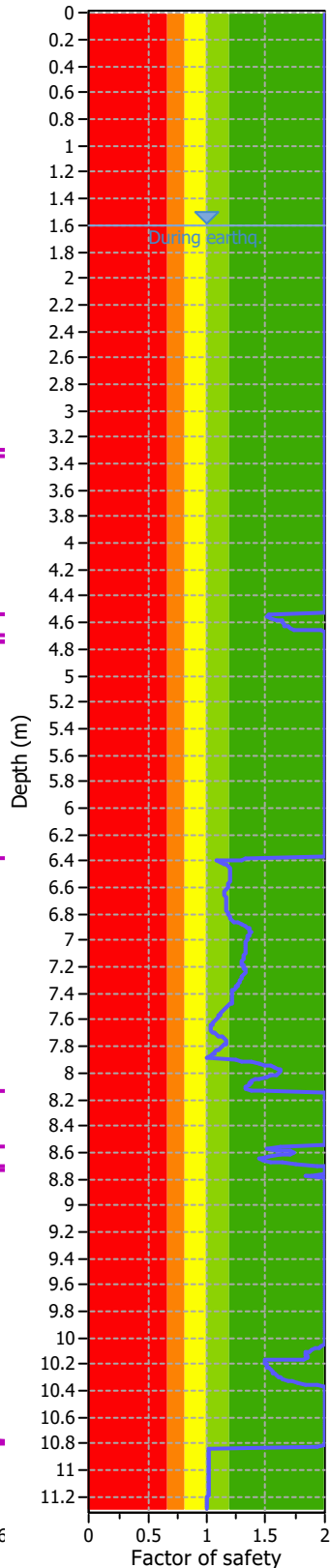
**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica  
**Location:** Monticelli d'Ongina

**CPT: 1.30**  
Total depth: 11.29 m

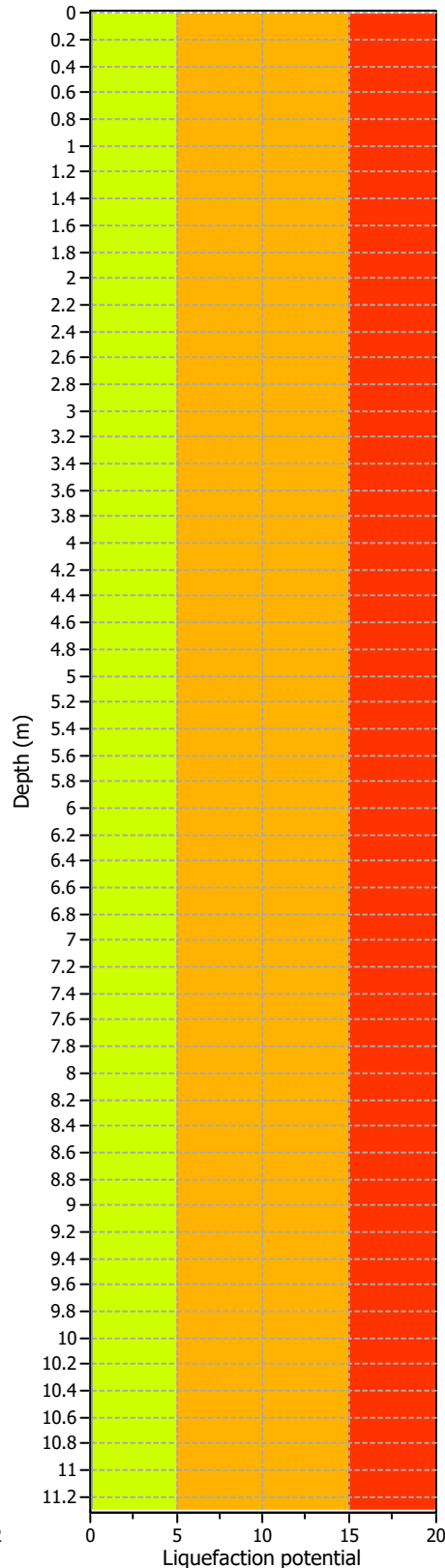
**CRR plot**



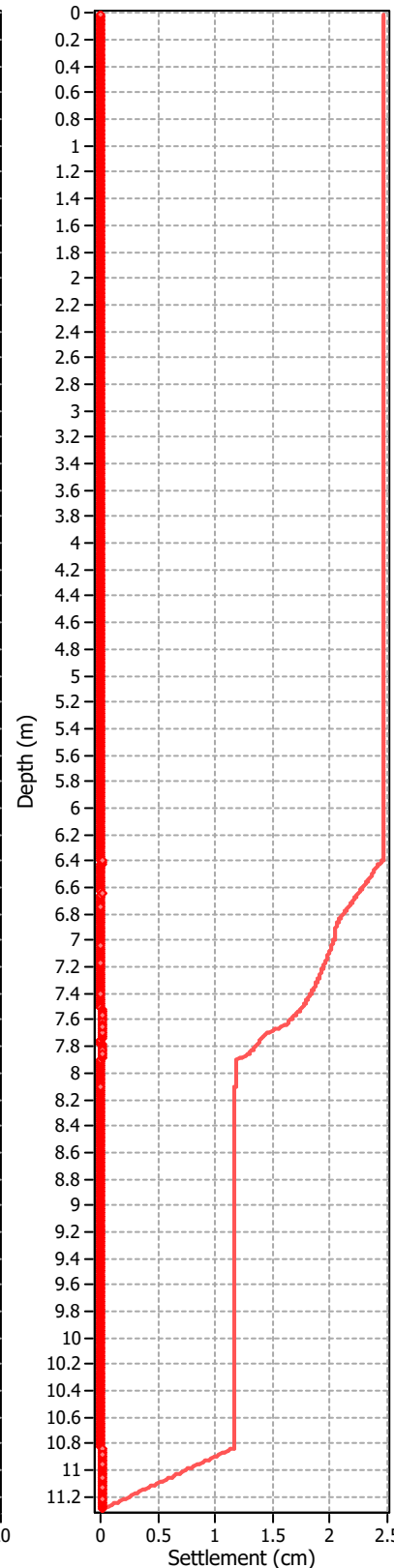
**FS Plot**



**LPI**



**Vertical settlements**



Analysis method: NCEER (1998)  
Fines correction method: NCEER (1998)  
Points to test: Based on  $I_c$  value  
Earthquake magnitude  $M_w$ : 5.60  
Peak ground acceleration: 0.13

G.W.T. (in-situ): 1.60 m  
G.W.T. (earthq.): 1.60 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  
Trans. detect. applied: No  
 $K_0$  applied: Yes

Clay like behavior applied: Sands only  
Limit depth applied: No  
Limit depth: N/A  
MSF method: Method based



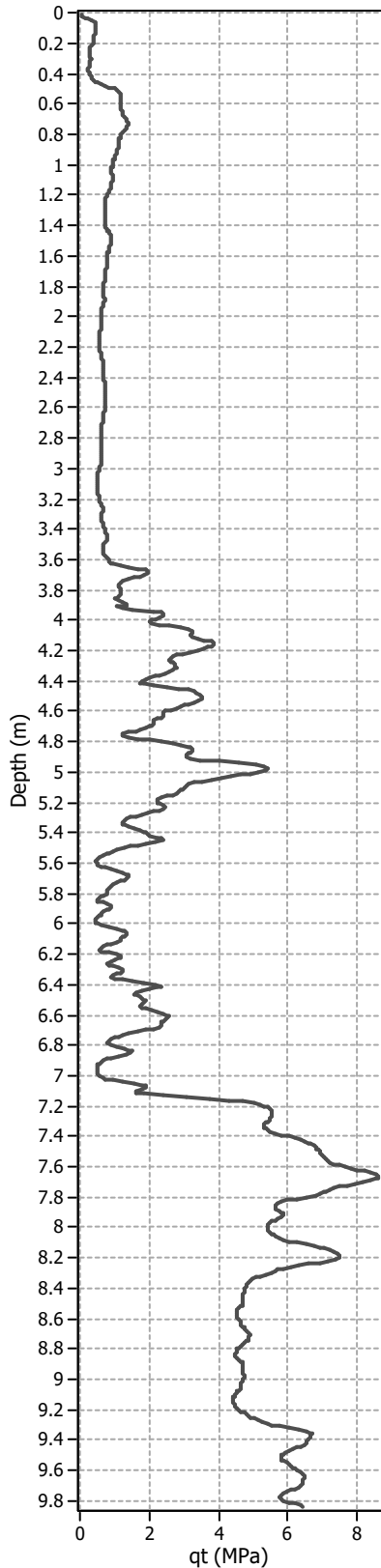
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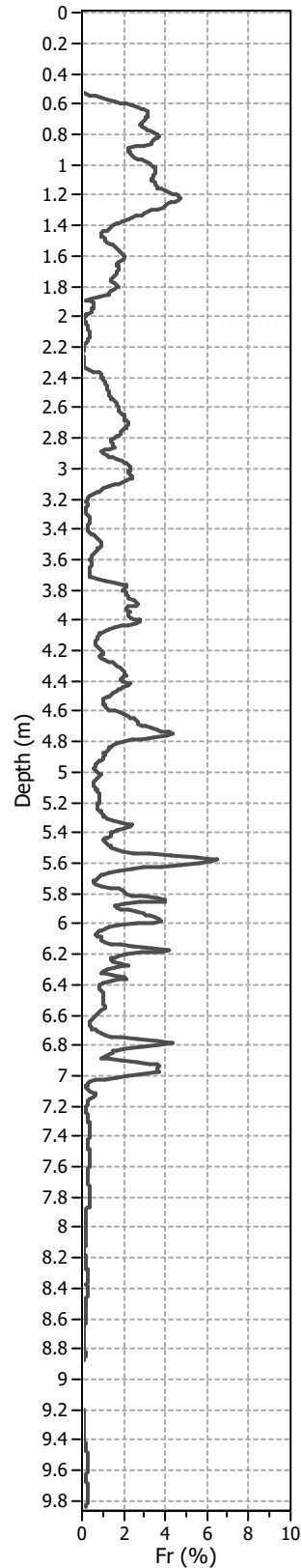
**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica  
**Location:** Monticelli d'Ongina

**CPT: 1.40**  
Total depth: 9.84 m

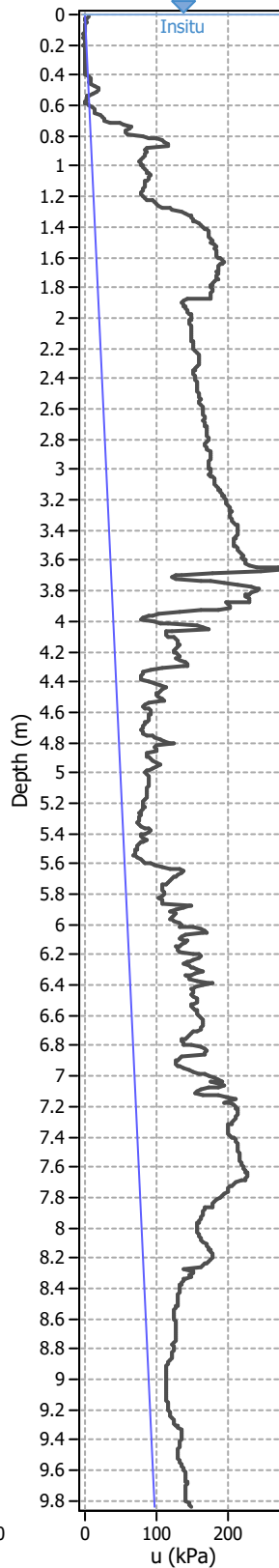
**Cone resistance**



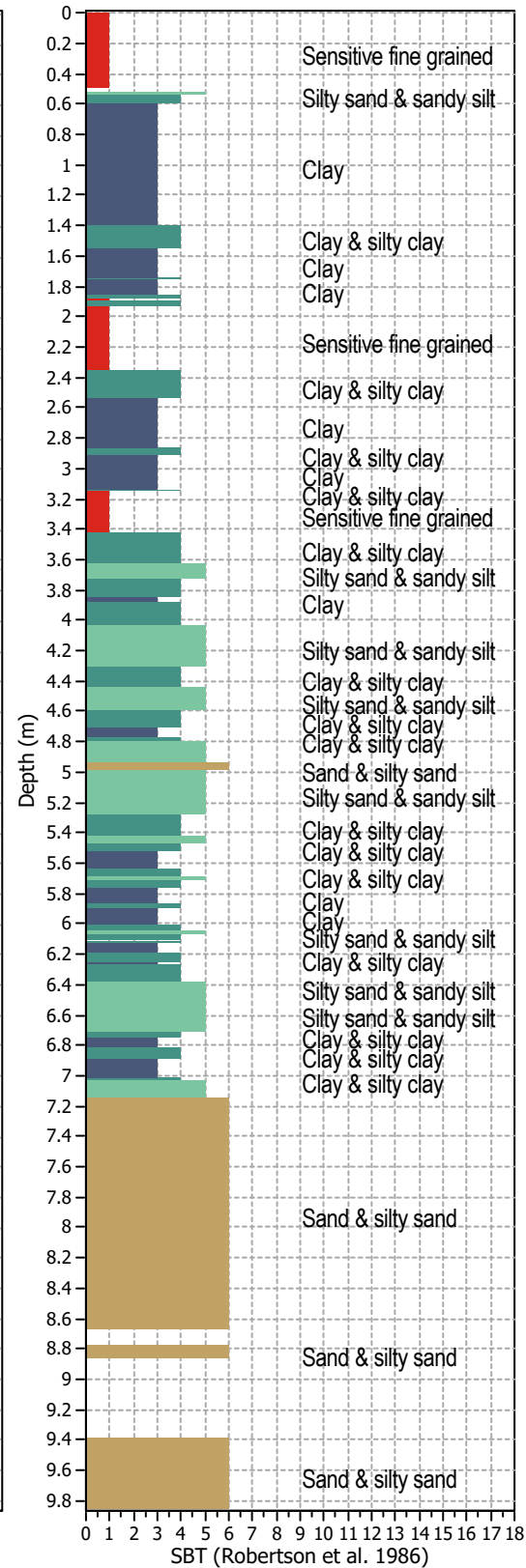
**Norm. friction ratio**



**Pore pressure**



**Soil Behaviour Type**



Analysis method:	NCEER (1998)	G.W.T. (in-situ):	0.00 m	Use fill:	No	Clay like behavior	
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	0.00 m	Fill height:	N/A	applied:	Sands only
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth applied:	No
Earthquake magnitude $M_w$ :	5.60	Ic cut-off value:	2.60	Trans. detect. applied:	No	Limit depth:	N/A
Peak ground acceleration:	0.13	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes	MSF method:	Method based





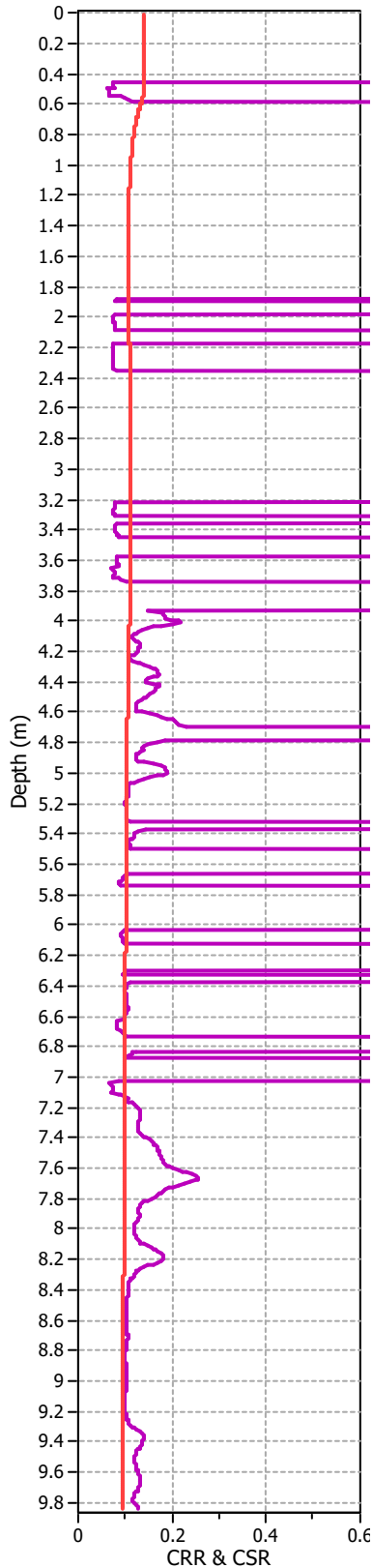
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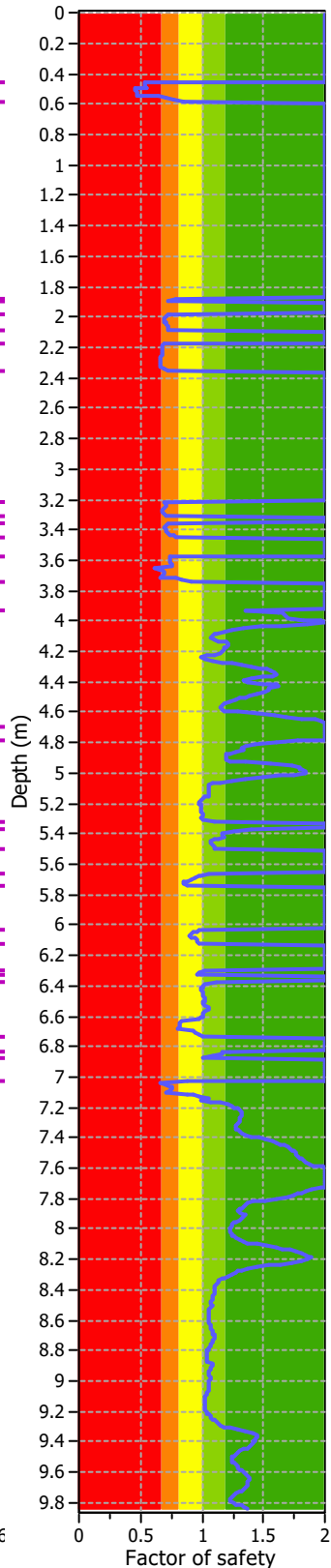
**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica  
**Location:** Monticelli d'Ongina

**CPT: 1.40**  
Total depth: 9.84 m

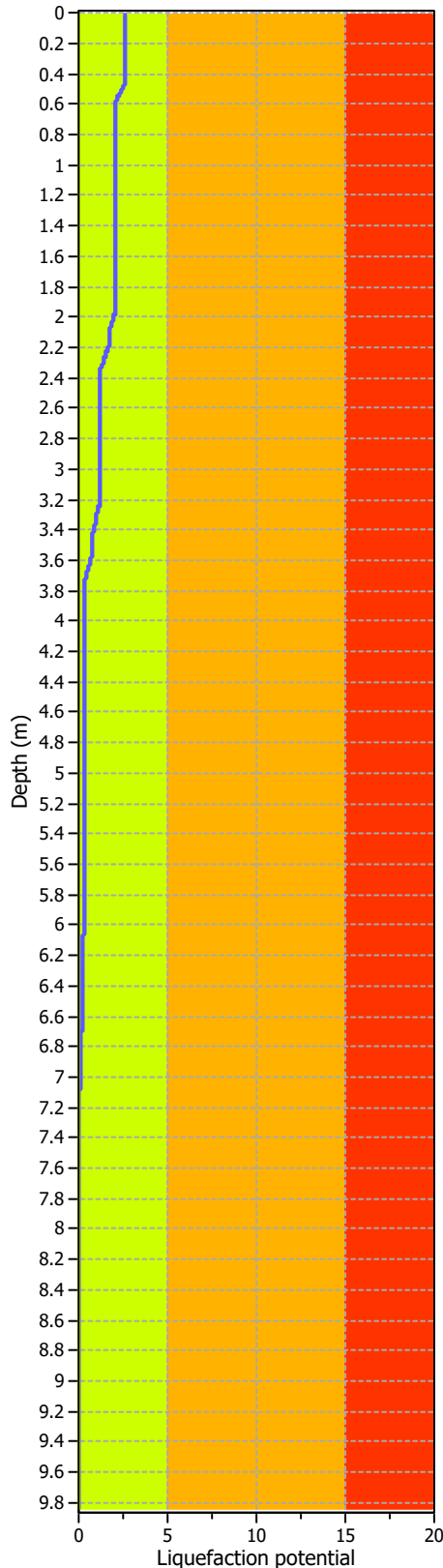
**CRR plot**



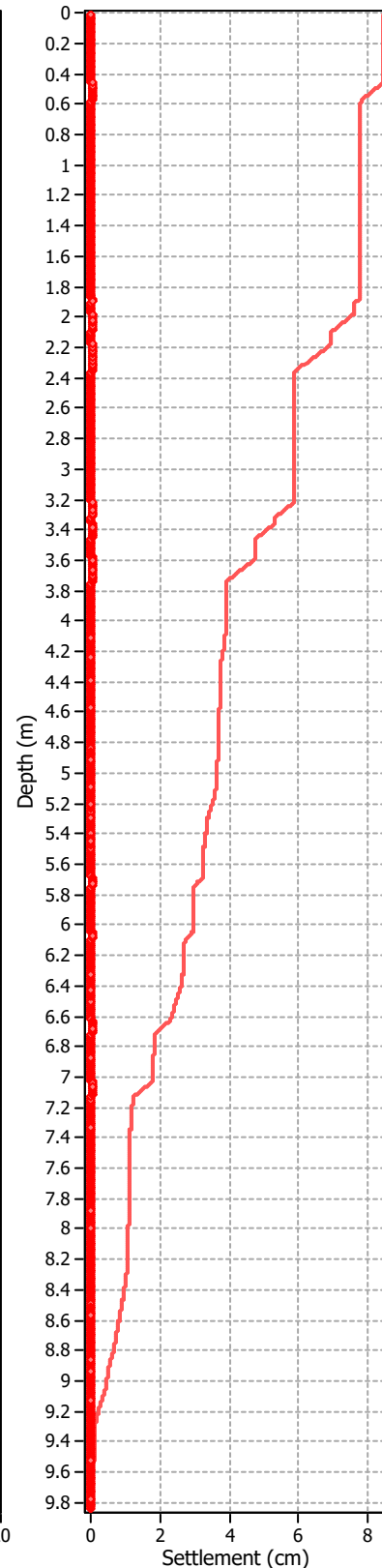
**FS Plot**



**LPI**



**Vertical settlements**



Analysis method: NCEER (1998)  
Fines correction method: NCEER (1998)  
Points to test: Based on  $I_c$  value  
Earthquake magnitude  $M_w$ : 5.60  
Peak ground acceleration: 0.13

G.W.T. (in-situ): 0.00 m  
G.W.T. (earthq.): 0.00 m  
Average results interval: 3  
 $I_c$  cut-off value: 2.60  
Unit weight calculation: Based on SBT

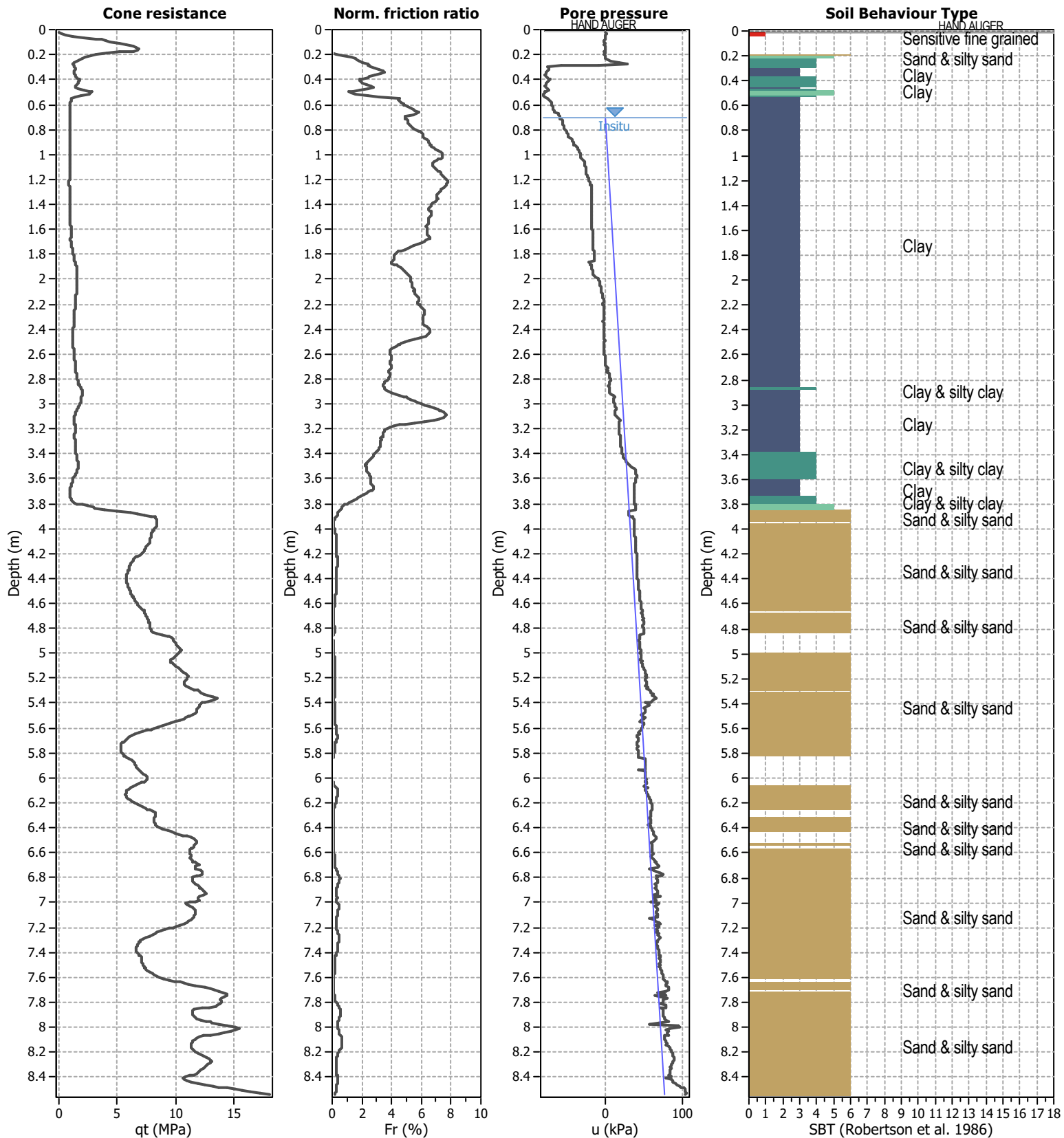
Use fill: No  
Fill height: N/A  
Fill weight: N/A  
Trans. detect. applied: No  
 $K_0$  applied: Yes

Clay like behavior applied: Sands only  
Limit depth applied: No  
Limit depth: N/A  
MSF method: Method based



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Total depth: 8.54 m



Clay like behavior applied:	Sands only
Limit depth applied:	No
Limit depth:	N/A
MSF method:	Method based

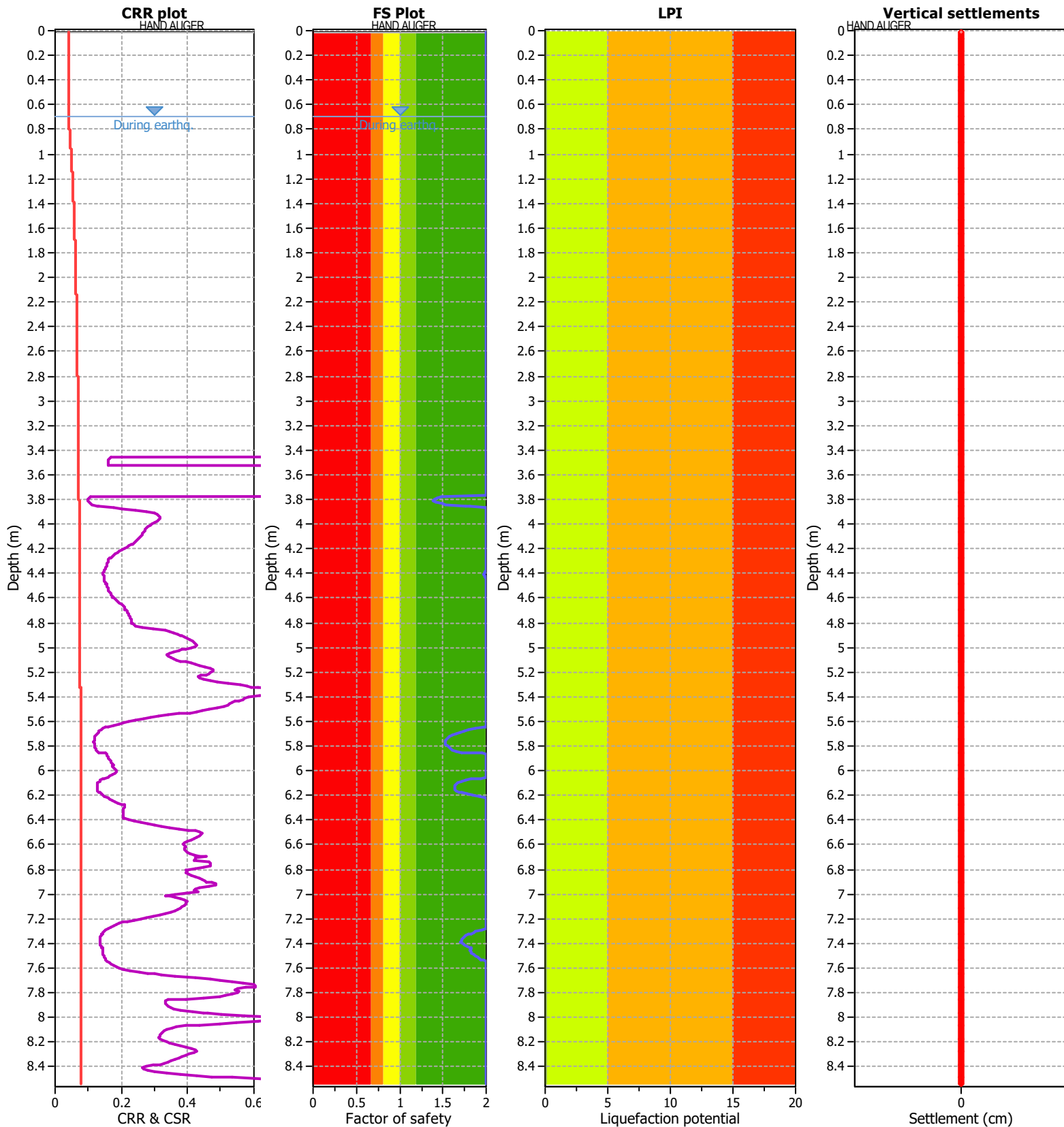


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**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica  
**Location:** Monticelli d'Ongina

**CPT: 1.50**  
Total depth: 8.54 m



Analysis method: NCEER (1998)  
Fines correction method: NCEER (1998)  
Points to test: Based on Ic value  
Earthquake magnitude  $M_w$ : 5.60  
Peak ground acceleration: 0.13

G.W.T. (in-situ): 0.70 m  
G.W.T. (earthq.): 0.70 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  
Trans. detect. applied: No  
 $K_0$  applied: Yes

Clay like behavior applied: Sands only  
Limit depth applied: No  
Limit depth: N/A  
MSF method: Method based



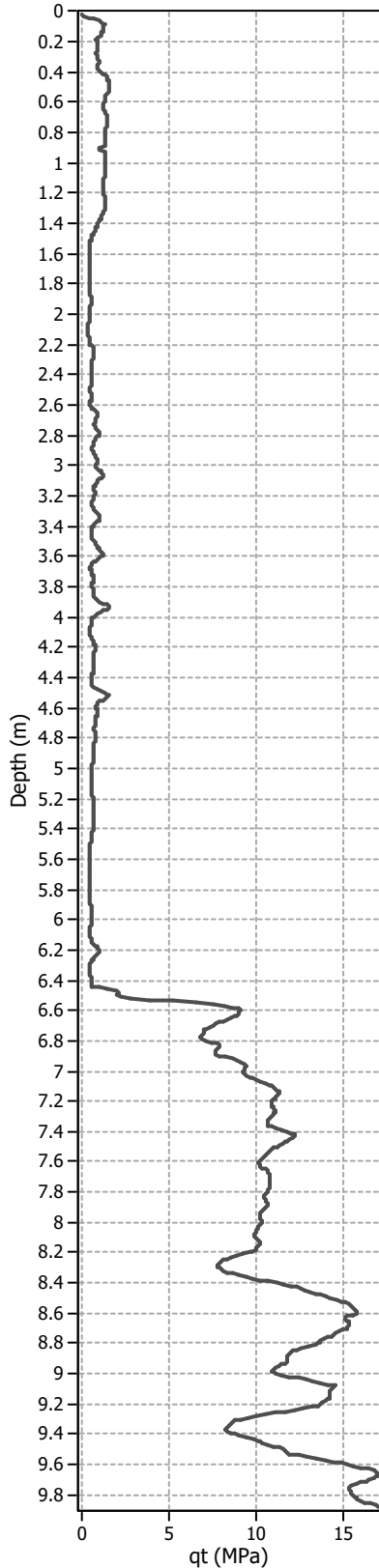
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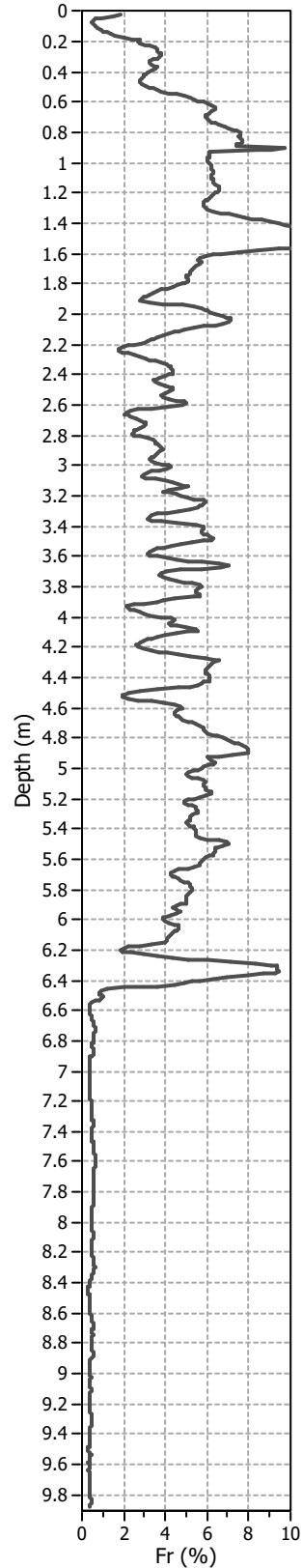
**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica  
**Location:** Monticelli d'Ongina

**CPT: 1.60**  
Total depth: 9.88 m

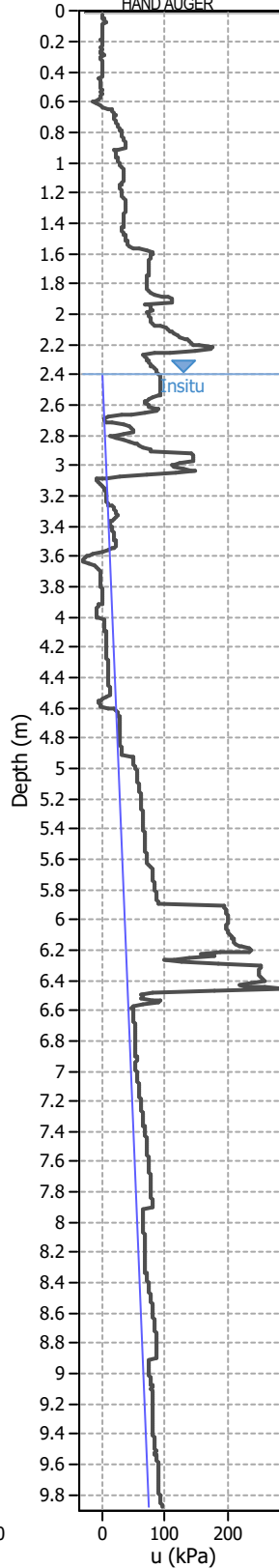
**Cone resistance**



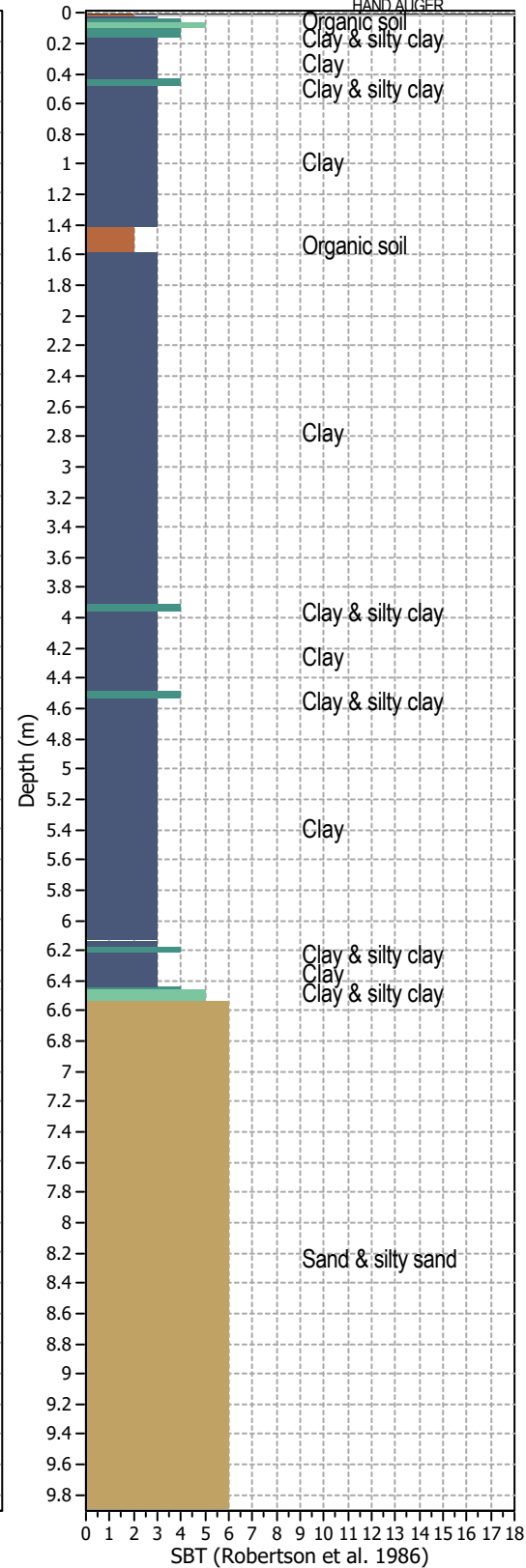
**Norm. friction ratio**



**Pore pressure**



**Soil Behaviour Type**



Analysis method:	NCEER (1998)	G.W.T. (in-situ):	2.40 m	Use fill:	No	Clay like behavior	
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	2.40 m	Fill height:	N/A	applied:	Sands only
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth applied:	No
Earthquake magnitude $M_w$ :	5.60	Ic cut-off value:	2.60	Trans. detect. applied:	No	Limit depth:	N/A
Peak ground acceleration:	0.13	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes	MSF method:	Method based



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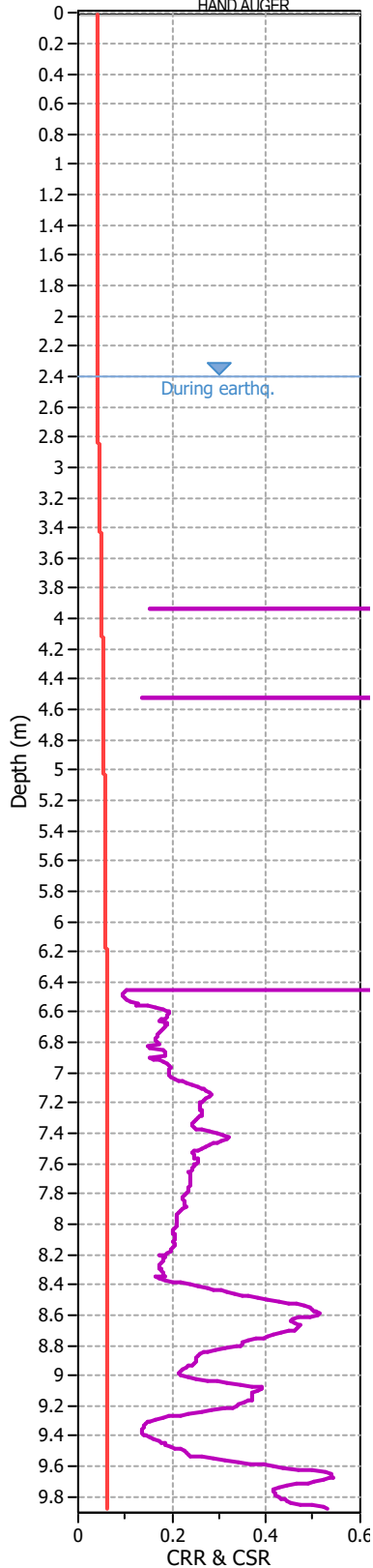
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**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica  
**Location:** Monticelli d'Ongina

**CPT: 1.60**  
Total depth: 9.88 m

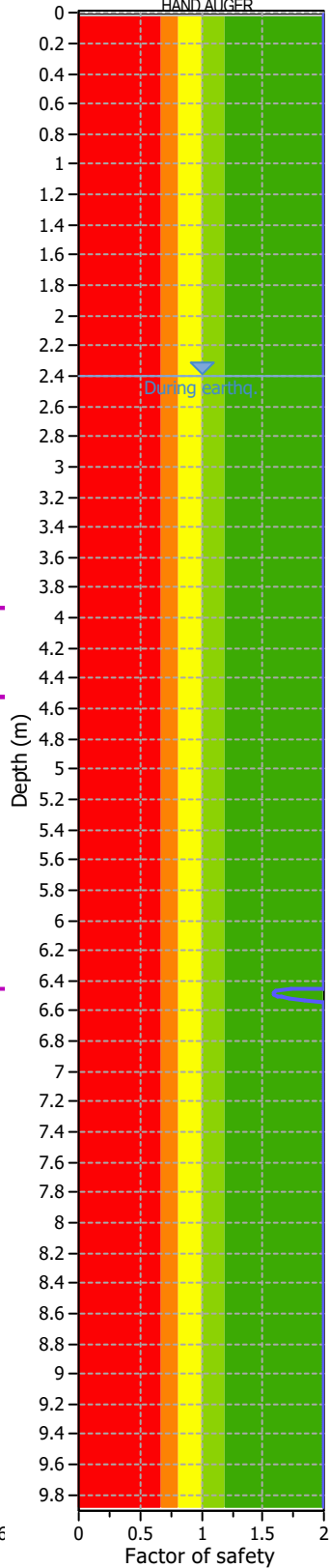
**CRR plot**

HAND ALIGER

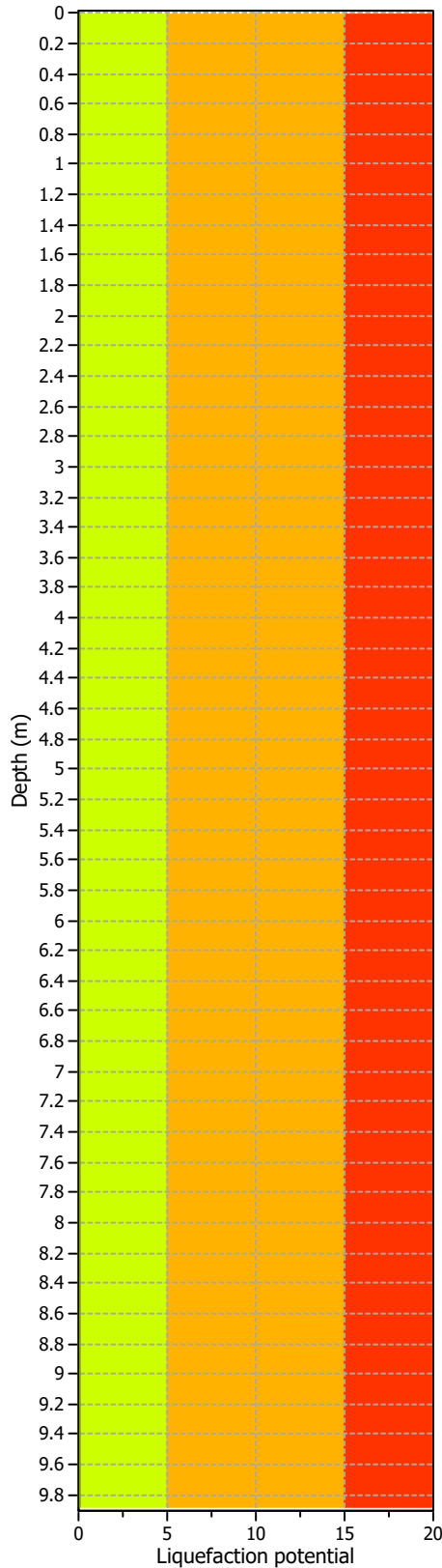


**FS Plot**

HAND ALIGER

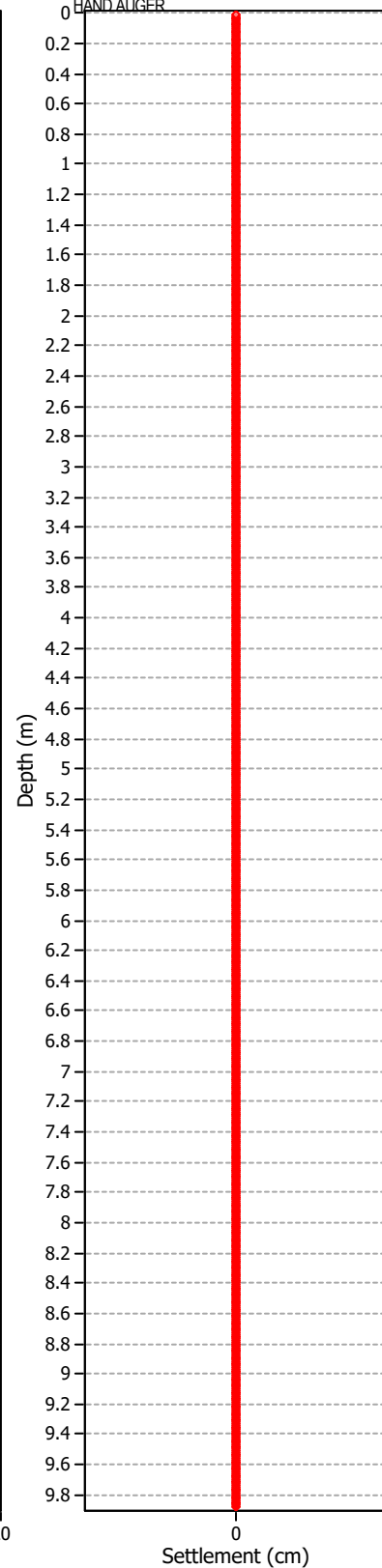


**LPI**



**Vertical settlements**

HAND ALIGER



Analysis method: NCEER (1998)  
Fines correction method: NCEER (1998)  
Points to test: Based on Ic value  
Earthquake magnitude  $M_w$ : 5.60  
Peak ground acceleration: 0.13

G.W.T. (in-situ): 2.40 m  
G.W.T. (earthq.): 2.40 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  
Trans. detect. applied: No  
 $K_0$  applied: Yes

Clay like behavior applied: Sands only  
Limit depth applied: No  
Limit depth: N/A  
MSF method: Method based





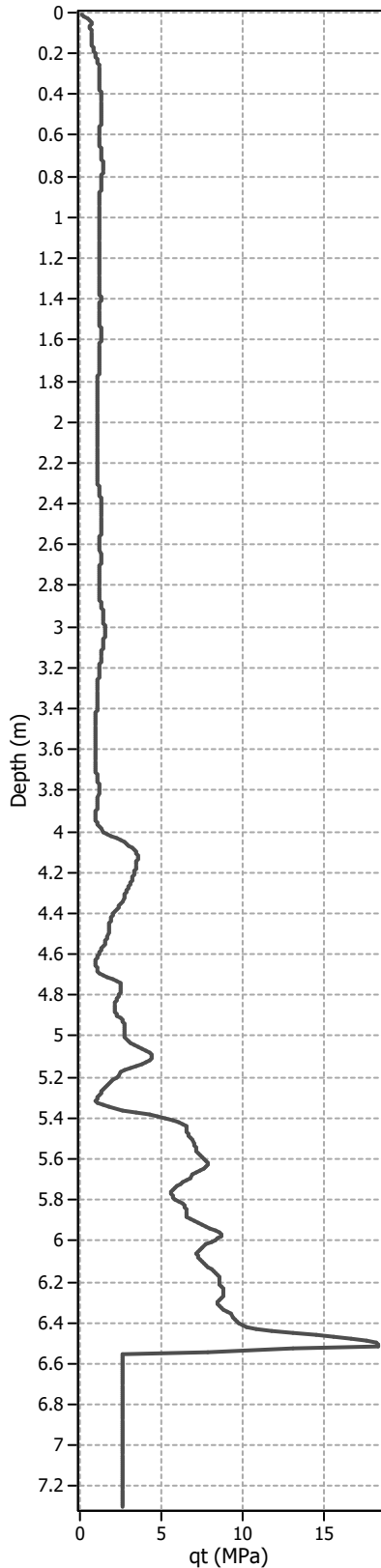
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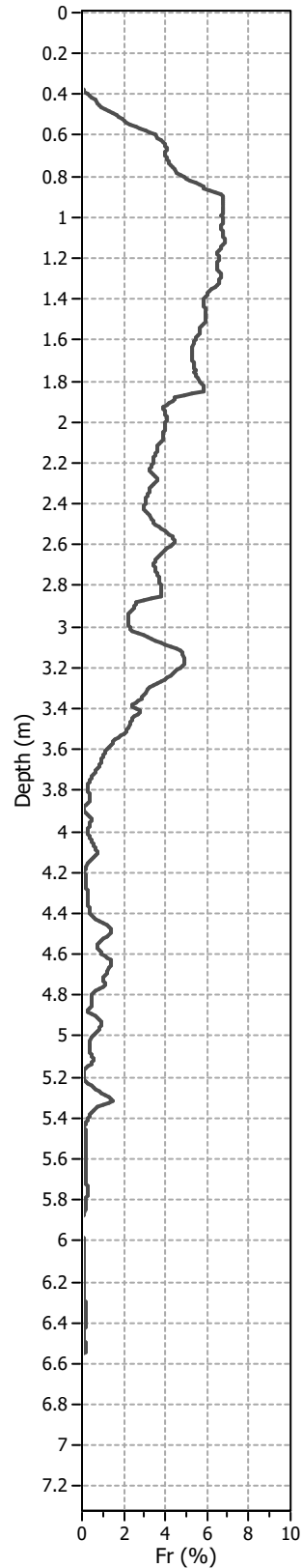
**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica  
**Location:** Monticelli d'Ongina

**CPT: 1.70**  
Total depth: 7.30 m

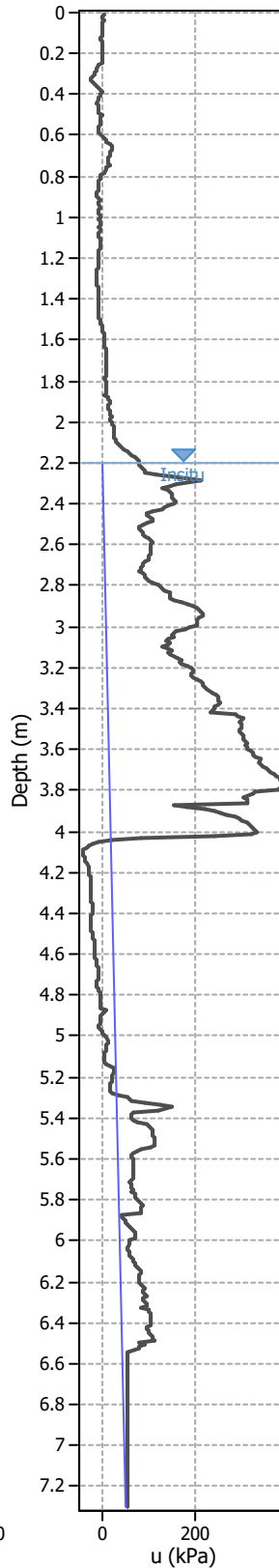
**Cone resistance**



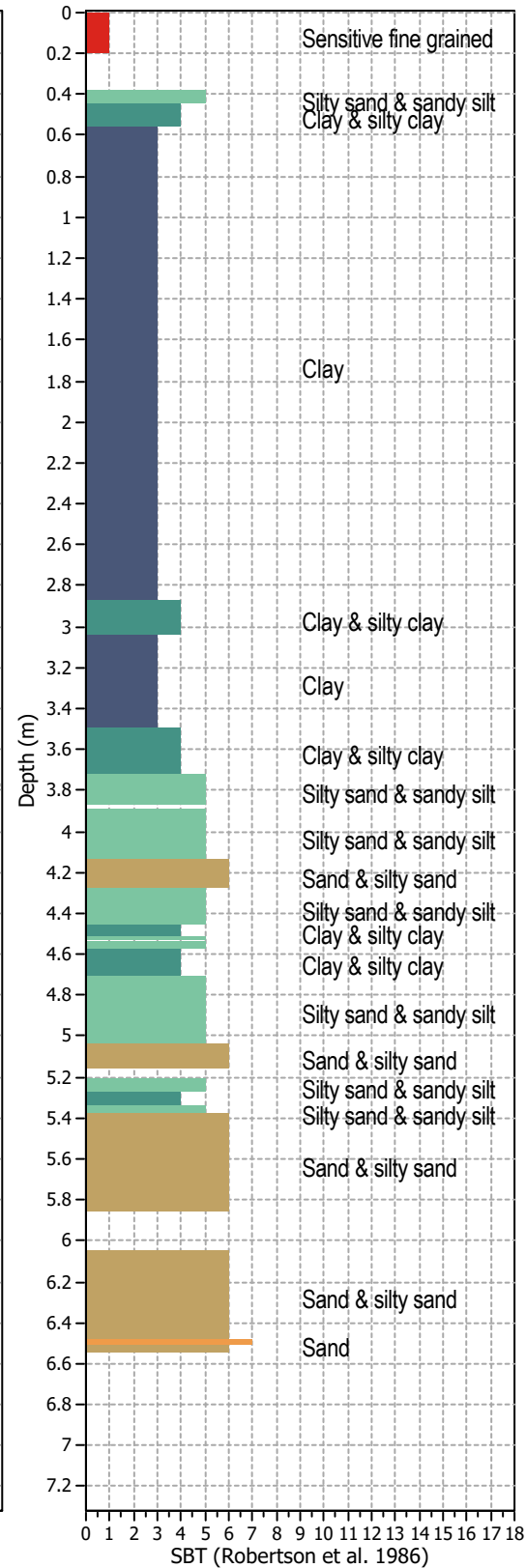
**Norm. friction ratio**



**Pore pressure**



**Soil Behaviour Type**



Analysis method: NCEER (1998)  
Fines correction method: NCEER (1998)  
Points to test: Based on Ic value  
Earthquake magnitude  $M_w$ : 5.60  
Peak ground acceleration: 0.13

G.W.T. (in-situ): 2.20 m  
G.W.T. (earthq.): 2.20 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  
Trans. detect. applied: No  
 $K_0$  applied: Yes

Clay like behavior applied: Sands only  
Limit depth applied: No  
Limit depth: N/A  
MSF method: Method based



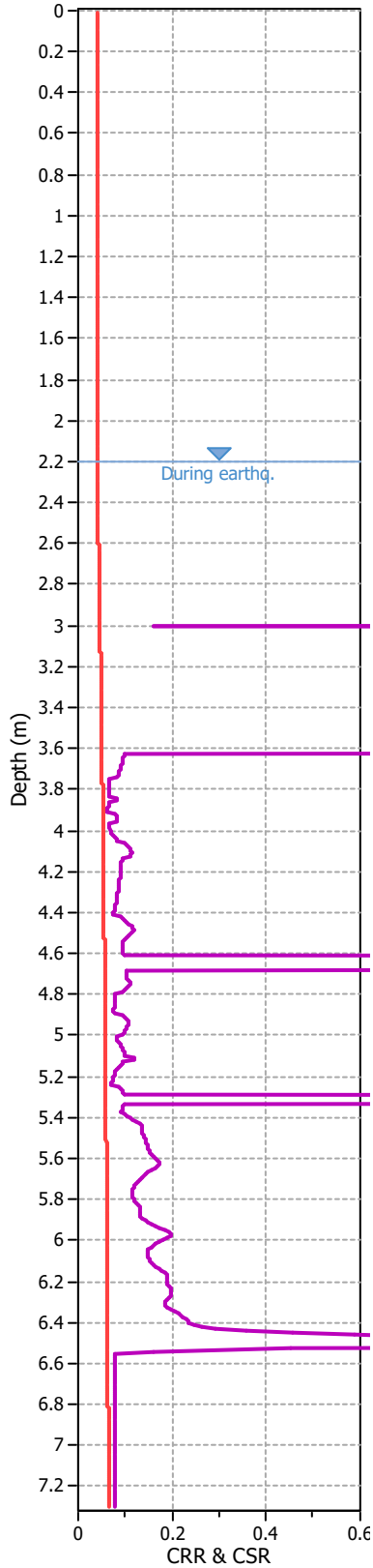
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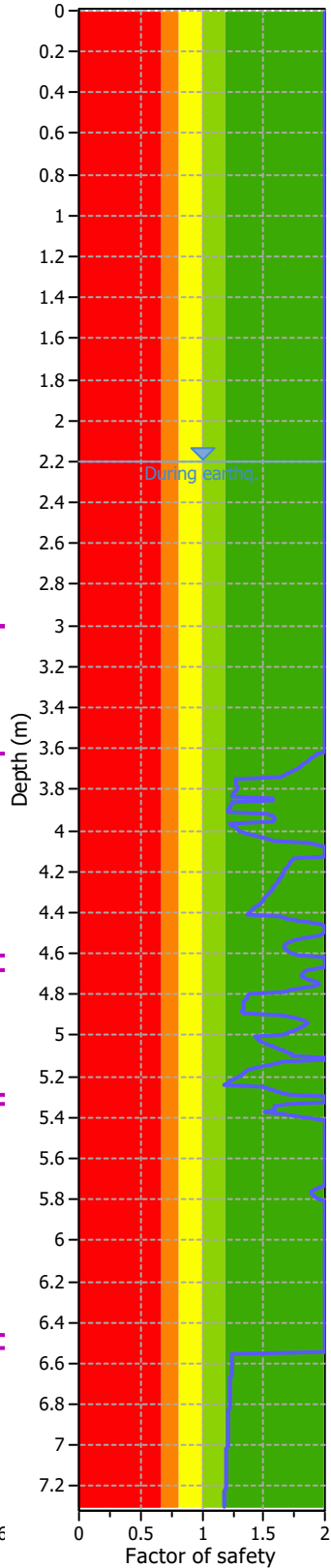
**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica  
**Location:** Monticelli d'Ongina

**CPT: 1.70**  
Total depth: 7.30 m

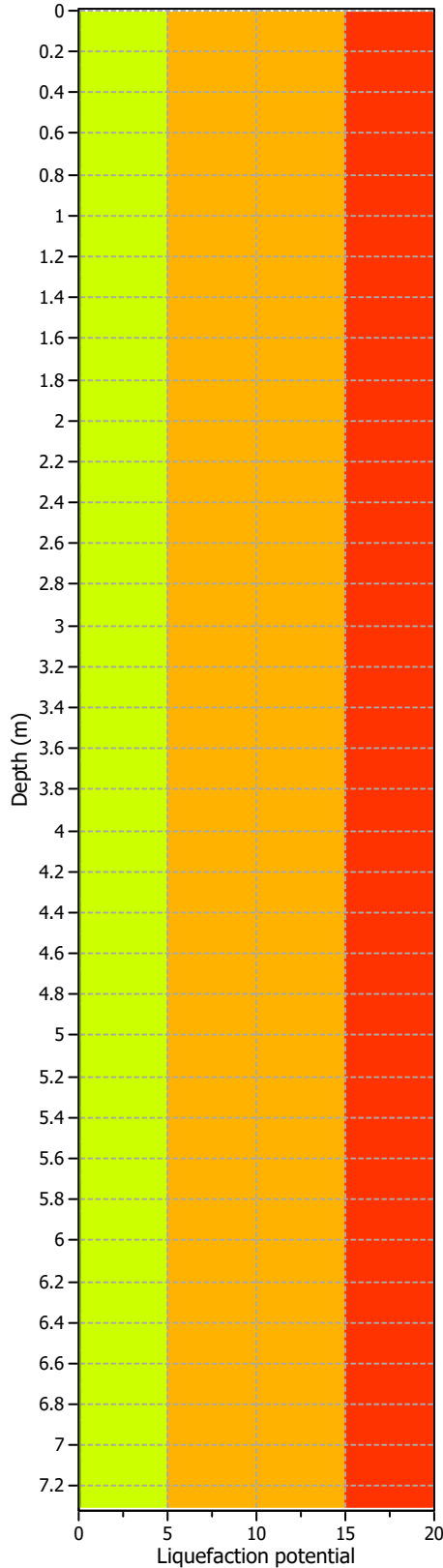
**CRR plot**



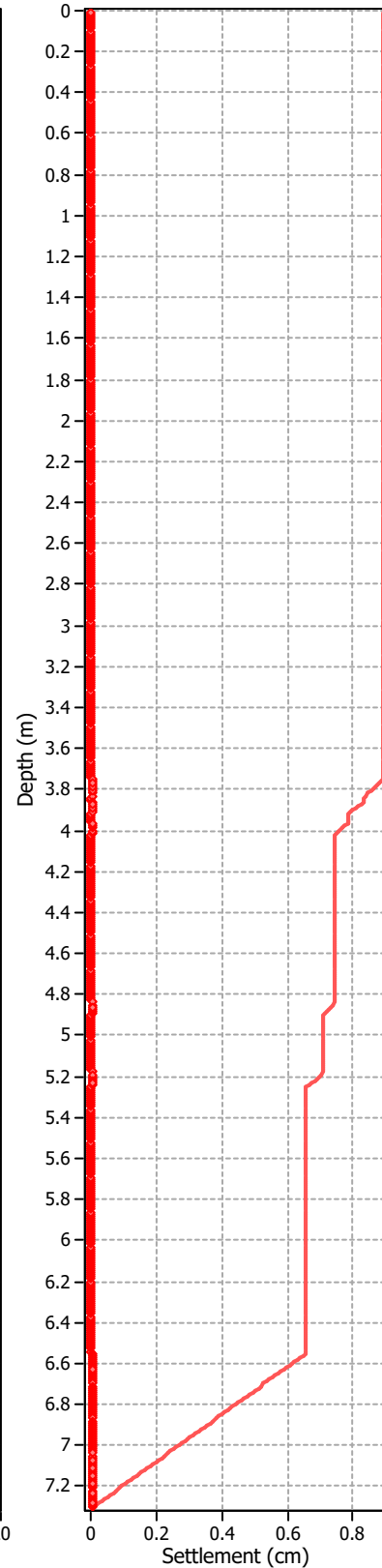
**FS Plot**



**LPI**



**Vertical settlements**



Analysis method: NCEER (1998)  
Fines correction method: NCEER (1998)  
Points to test: Based on  $I_c$  value  
Earthquake magnitude  $M_w$ : 5.60  
Peak ground acceleration: 0.13

G.W.T. (in-situ): 2.20 m  
G.W.T. (earthq.): 2.20 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  
Trans. detect. applied: No  
 $K_0$  applied: Yes

Clay like behavior applied: Sands only  
Limit depth applied: No  
Limit depth: N/A  
MSF method: Method based



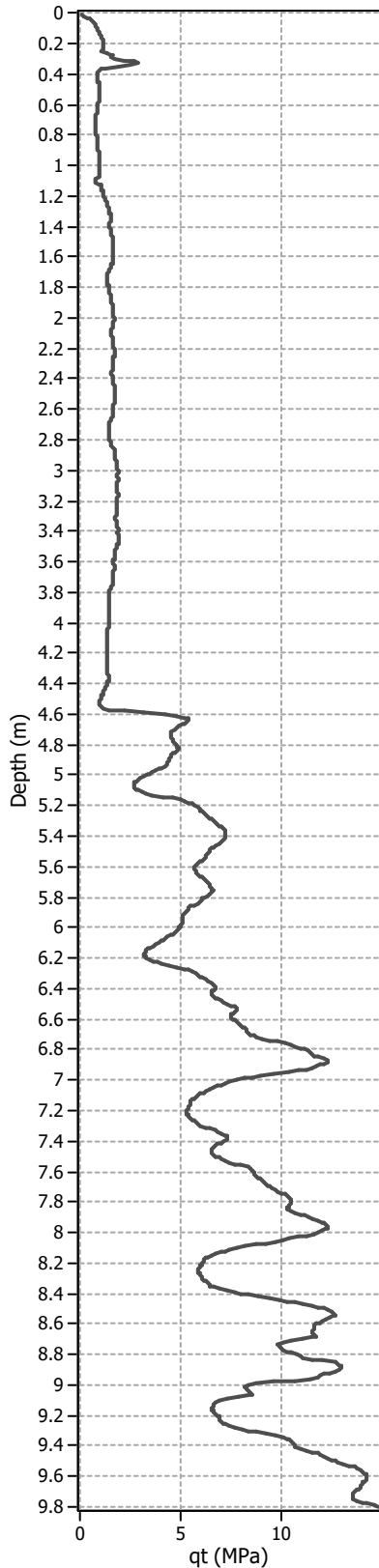
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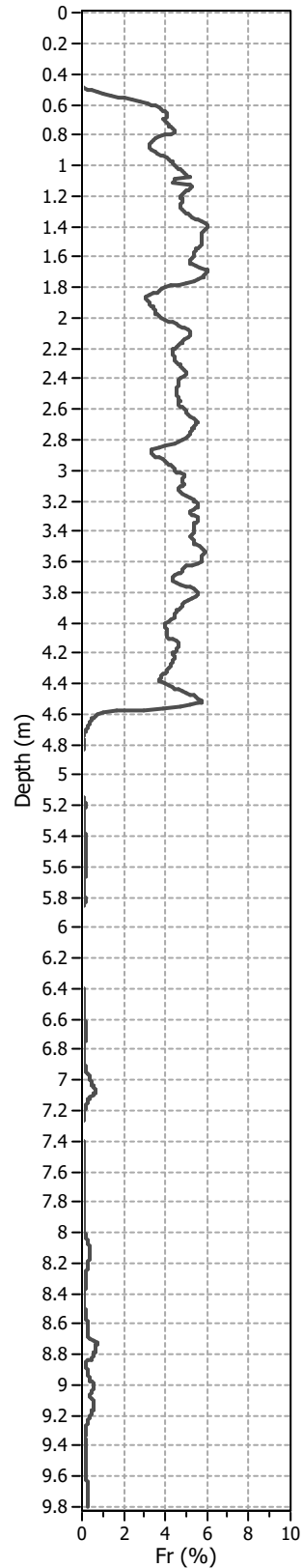
Project: Impianto di produzione di energia elettrica da fonte fotovoltaica  
Location: Monticelli d'Ongina

CPT: 1.80  
Total depth: 9.80 m

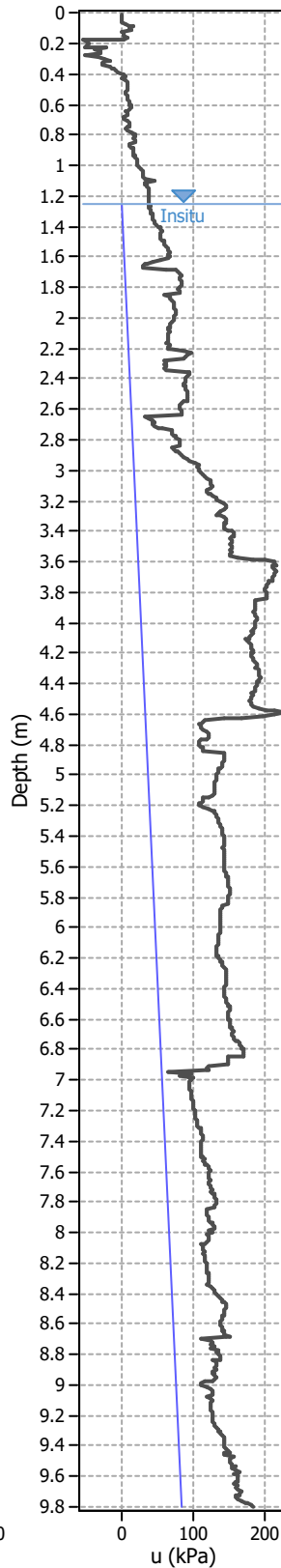
Cone resistance



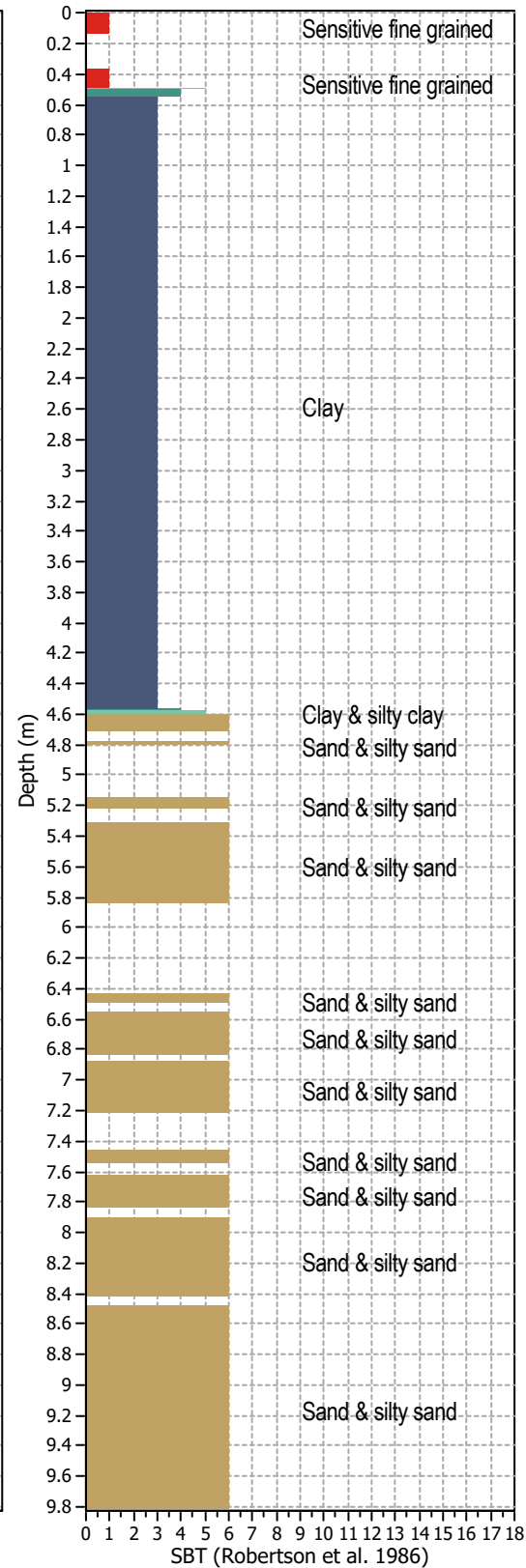
Norm. friction ratio



Pore pressure



Soil Behaviour Type



Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.25 m	Use fill:	No	Clay like behavior	
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	1.25 m	Fill height:	N/A	applied:	Sands only
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth applied:	No
Earthquake magnitude $M_w$ :	5.60	Ic cut-off value:	2.60	Trans. detect. applied:	No	Limit depth:	N/A
Peak ground acceleration:	0.13	Unit weight calculation:	Based on SBT	$K_\sigma$ applied:	Yes	MSF method:	Method based



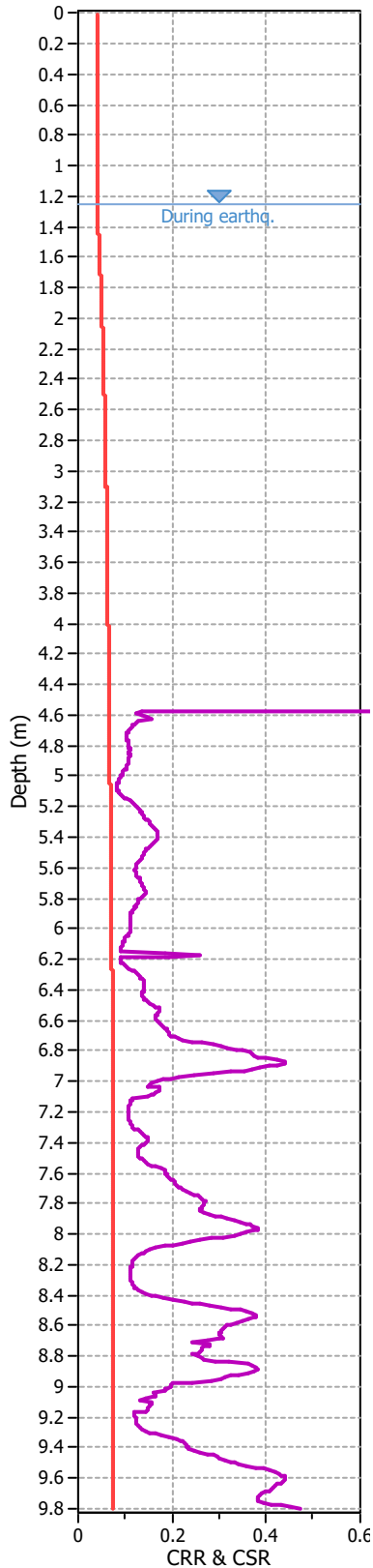
**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica

**Location:** Monticelli d'Ongina

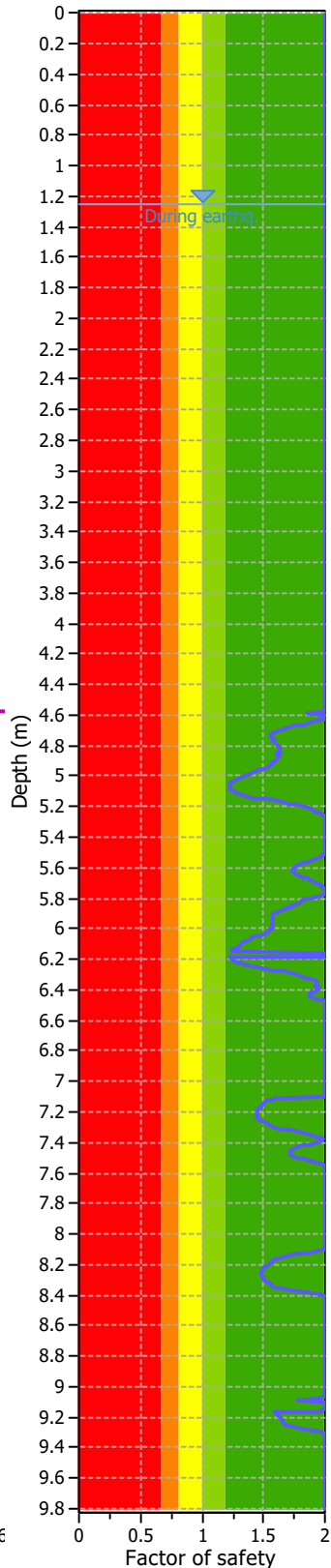
**CPT: 1.80**

Total depth: 9.80 m

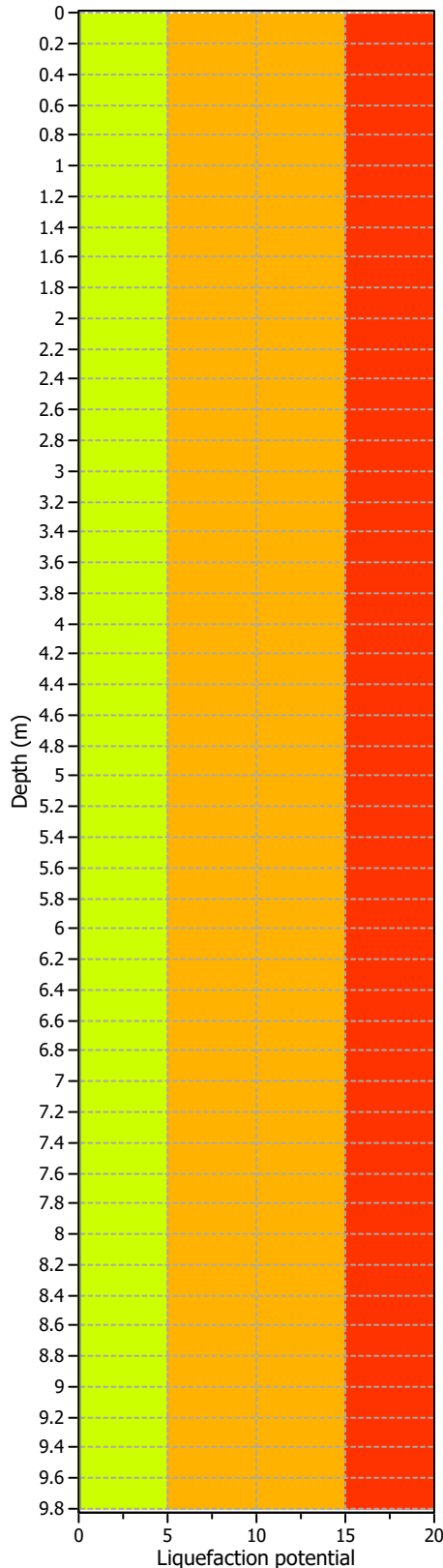
**CRR plot**



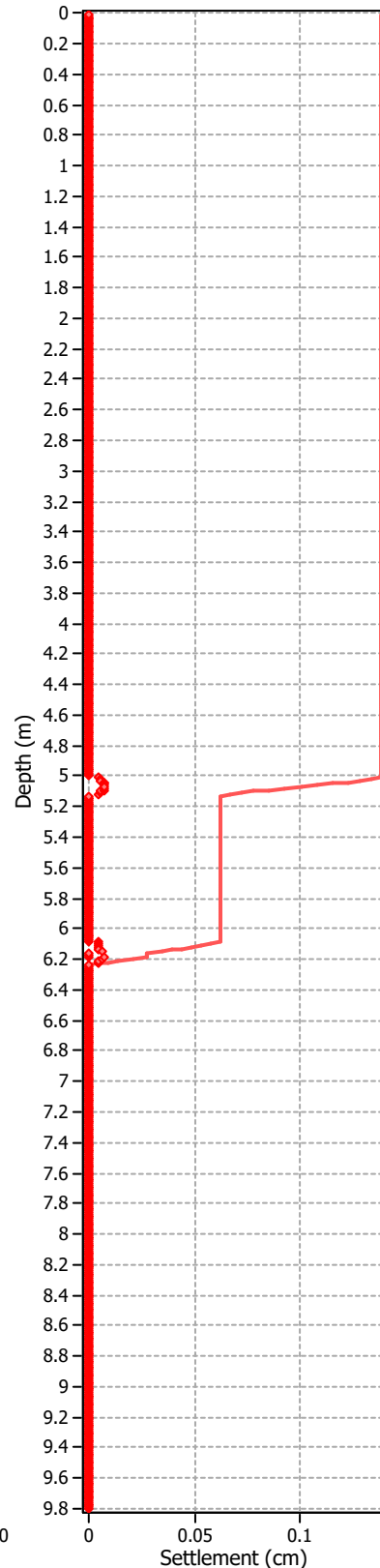
**FS Plot**



**LPI**



**Vertical settlements**



Analysis method: NCEER (1998)  
Fines correction method: NCEER (1998)  
Points to test: Based on Ic value  
Earthquake magnitude  $M_w$ : 5.60  
Peak ground acceleration: 0.13

G.W.T. (in-situ): 1.25 m  
G.W.T. (earthq.): 1.25 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  
Trans. detect. applied: No  
 $K_\sigma$  applied: Yes

Clay like behavior applied: Sands only  
Limit depth applied: No  
Limit depth: N/A  
MSF method: Method based



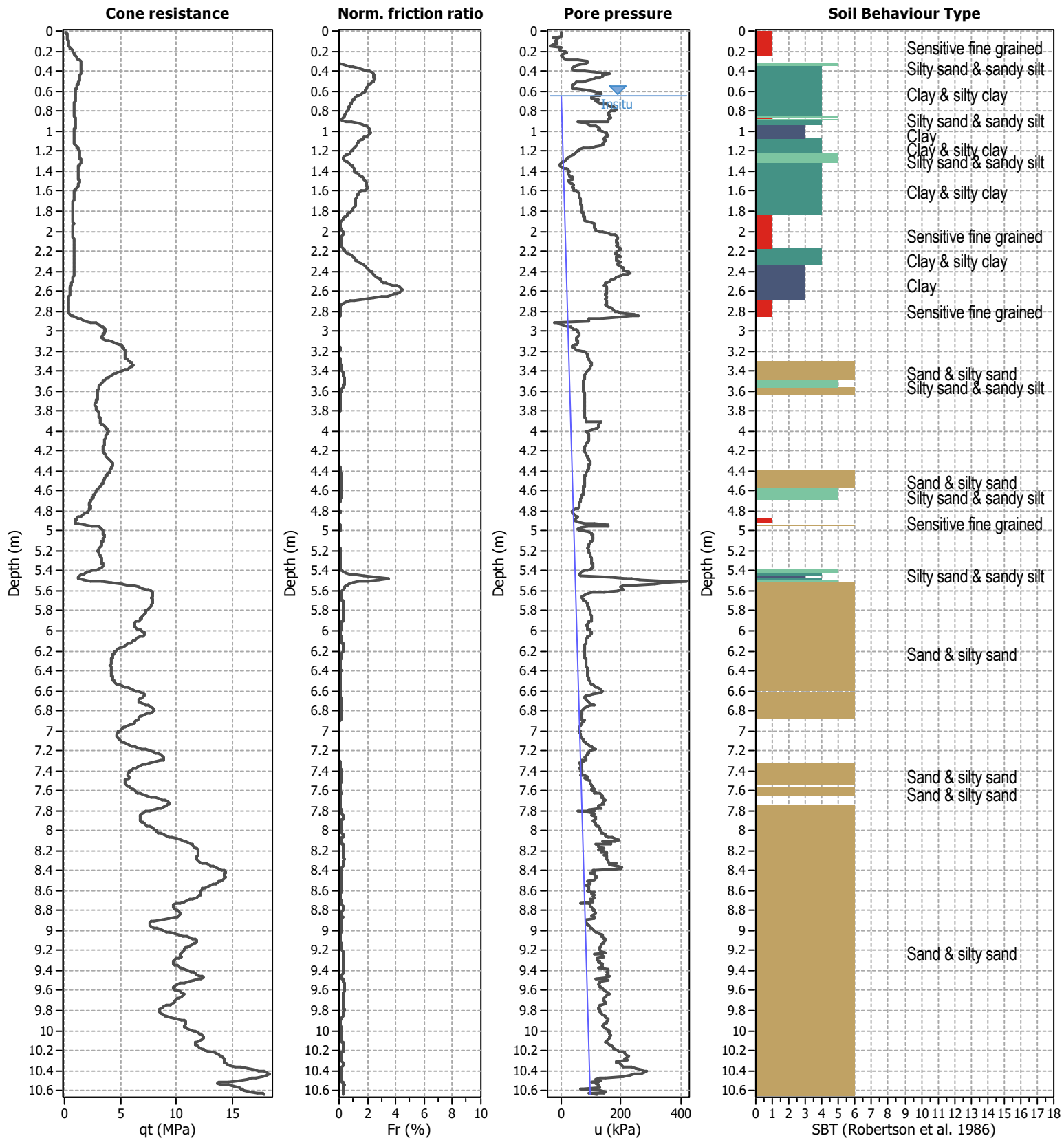
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**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica  
**Location:** Monticelli d'Ongina

**CPT: 3.10**

Total depth: 10.64 m



Analysis method: NCEER (1998)  
Fines correction method: NCEER (1998)  
Points to test: Based on Ic value  
Earthquake magnitude  $M_w$ : 5.60  
Peak ground acceleration: 0.13

G.W.T. (in-situ): 0.65 m  
G.W.T. (earthq.): 0.65 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  
Trans. detect. applied: No  
 $K_0$  applied: Yes

Clay like behavior applied: Sands only  
Limit depth applied: No  
Limit depth: N/A  
MSF method: Method based

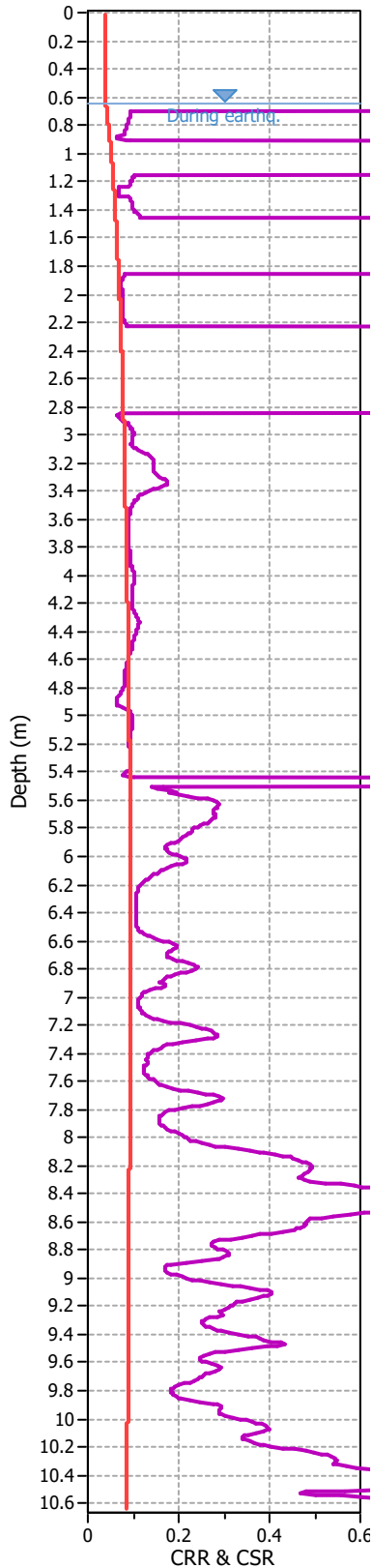




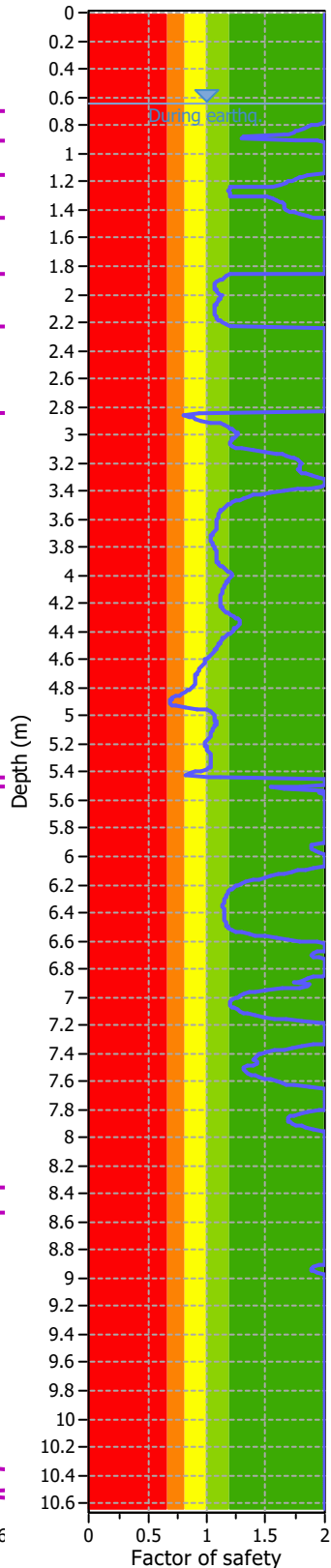
**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica  
**Location:** Monticelli d'Ongina

**CPT: 3.10**  
Total depth: 10.64 m

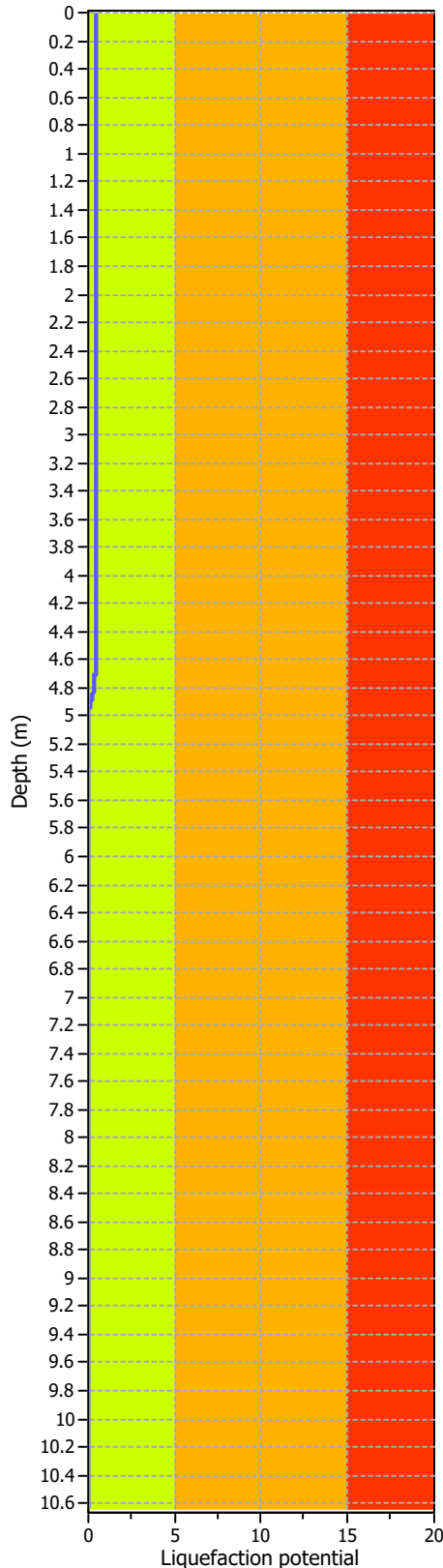
**CRR plot**



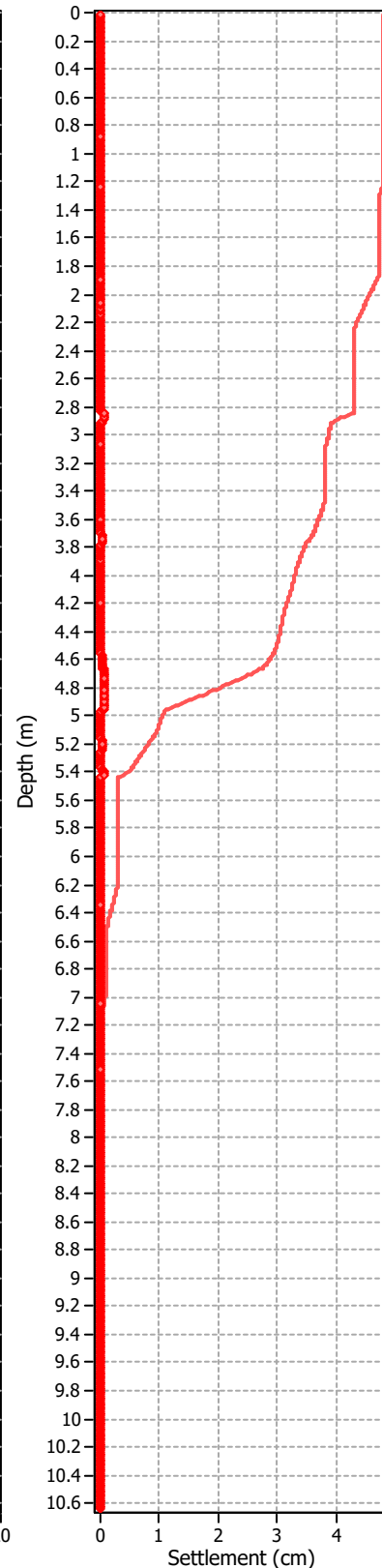
**FS Plot**



**LPI**



**Vertical settlements**



Analysis method:	NCEER (1998)	G.W.T. (in-situ):	0.65 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	0.65 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude $M_w$ :	5.60	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.13	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes		



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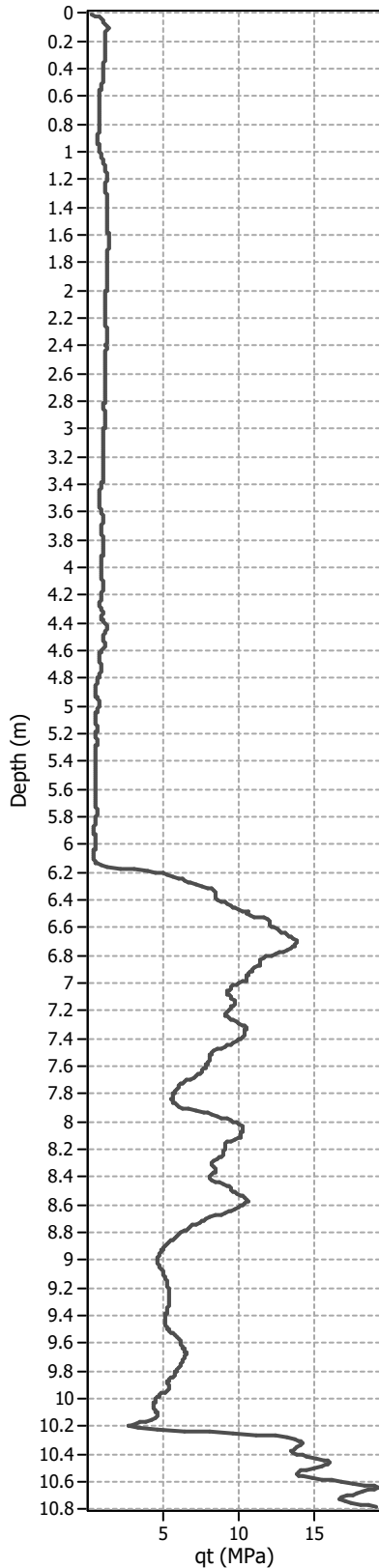
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**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica  
**Location:** Monticelli d'Ongina

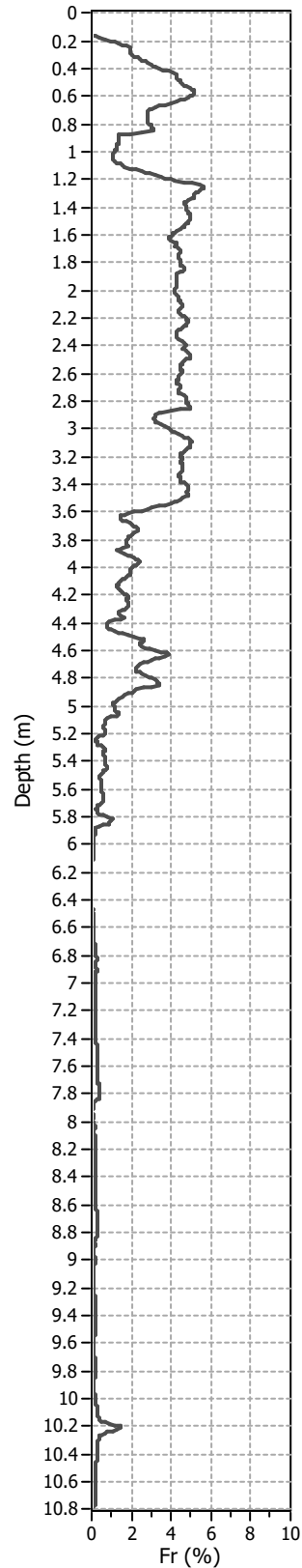
**CPT: 3.20**

Total depth: 10.78 m

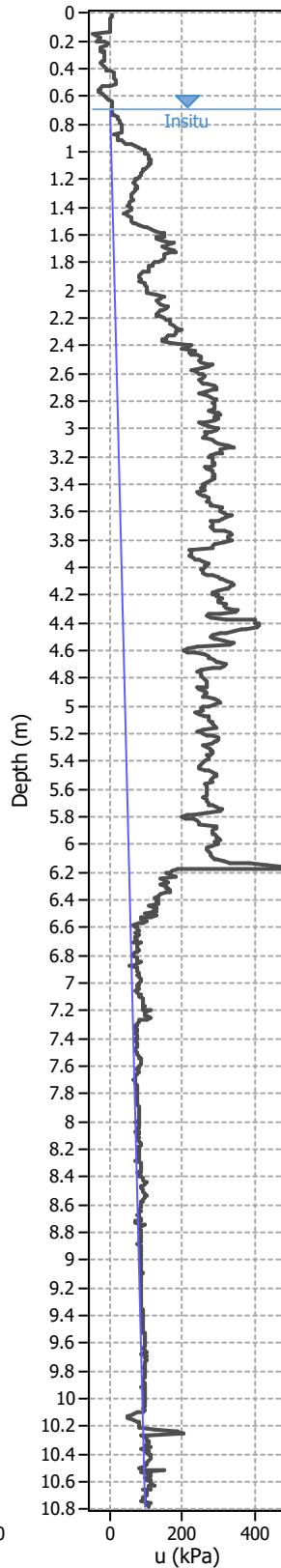
**Cone resistance**



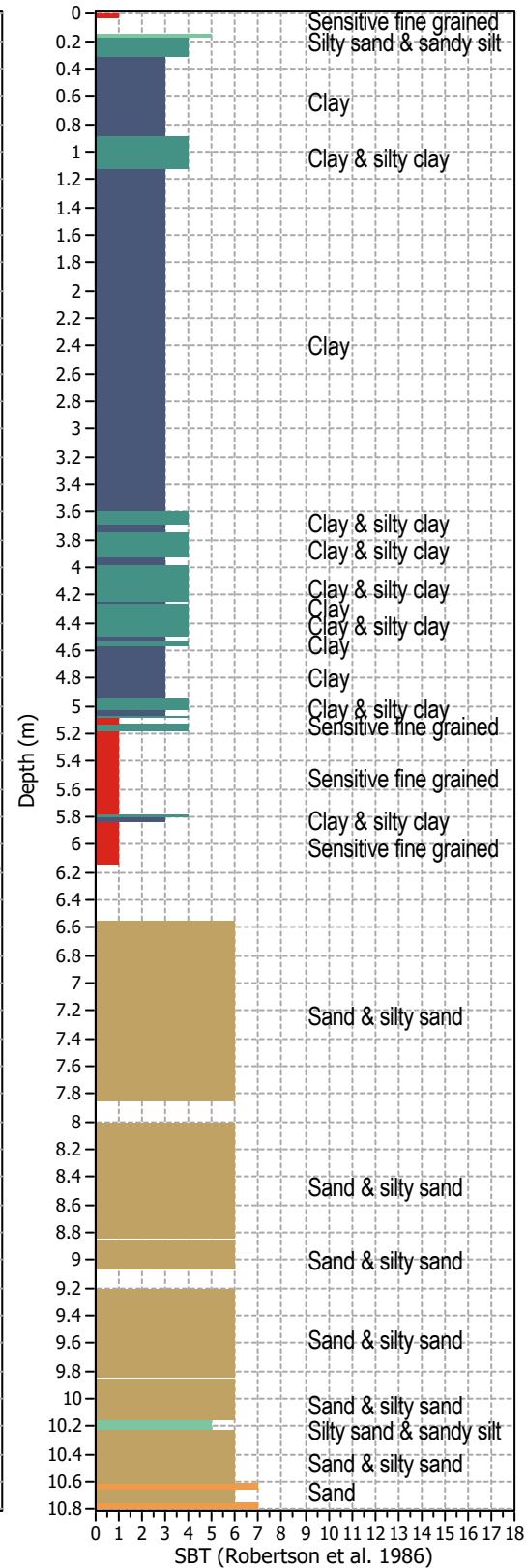
**Norm. friction ratio**



**Pore pressure**



**Soil Behaviour Type**



Analysis method: NCEER (1998)  
Fines correction method: NCEER (1998)  
Points to test: Based on Ic value  
Earthquake magnitude  $M_w$ : 5.60  
Peak ground acceleration: 0.13

G.W.T. (in-situ): 0.70 m  
G.W.T. (earthq.): 0.70 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  
Trans. detect. applied: No  
 $K_0$  applied: Yes

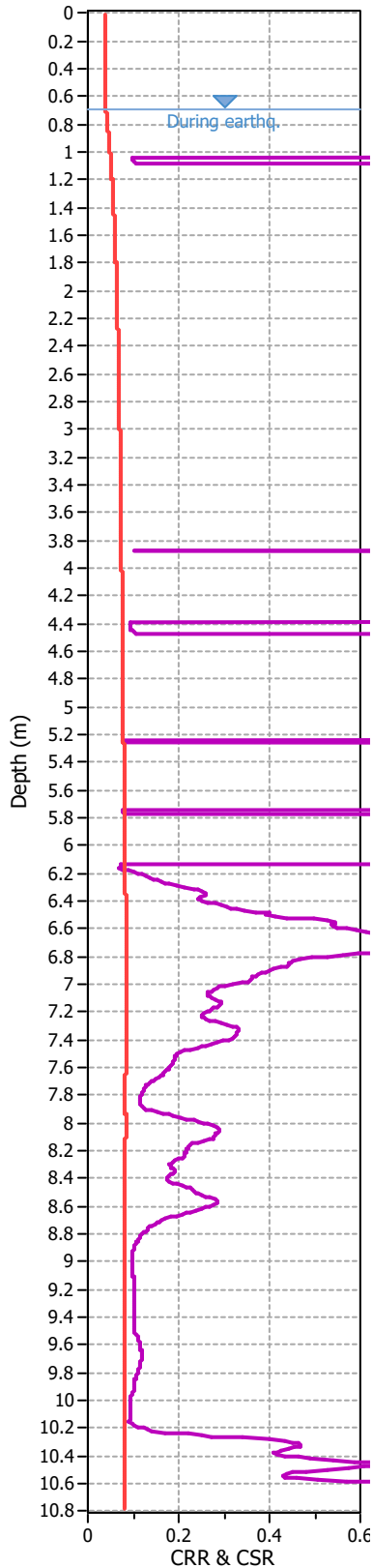
Clay like behavior applied: Sands only  
Limit depth applied: No  
Limit depth: N/A  
MSF method: Method based



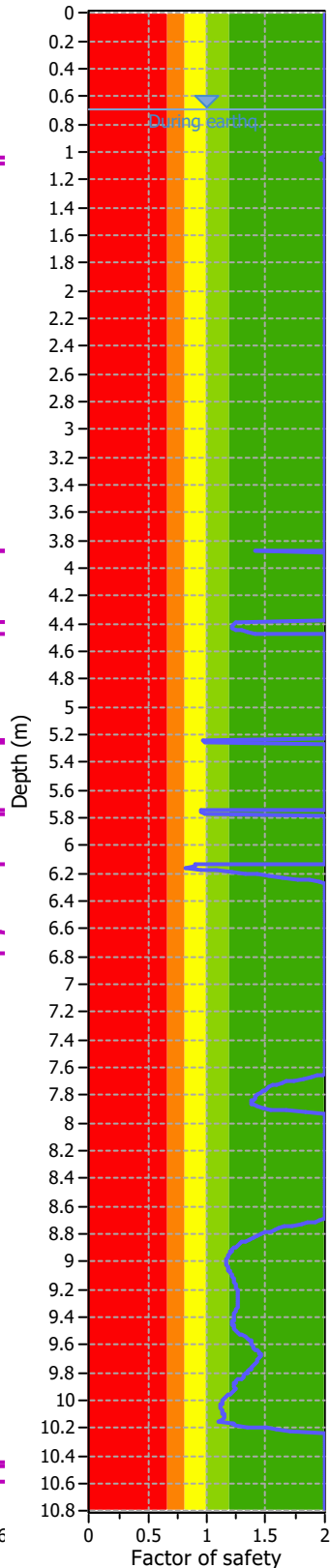
**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica  
**Location:** Monticelli d'Ongina

**CPT: 3.20**  
Total depth: 10.78 m

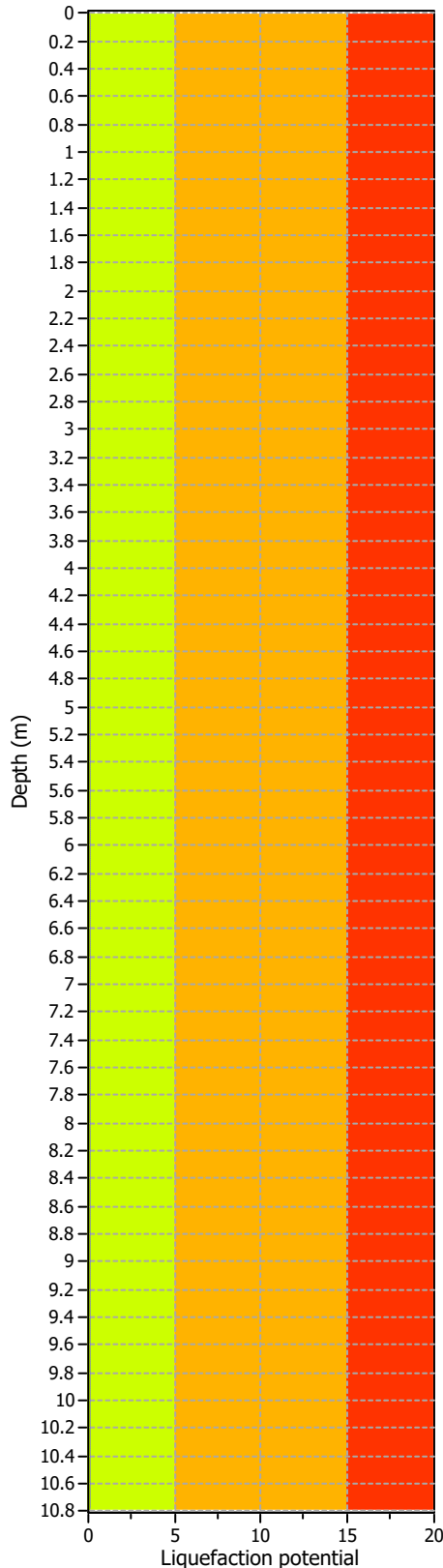
**CRR plot**



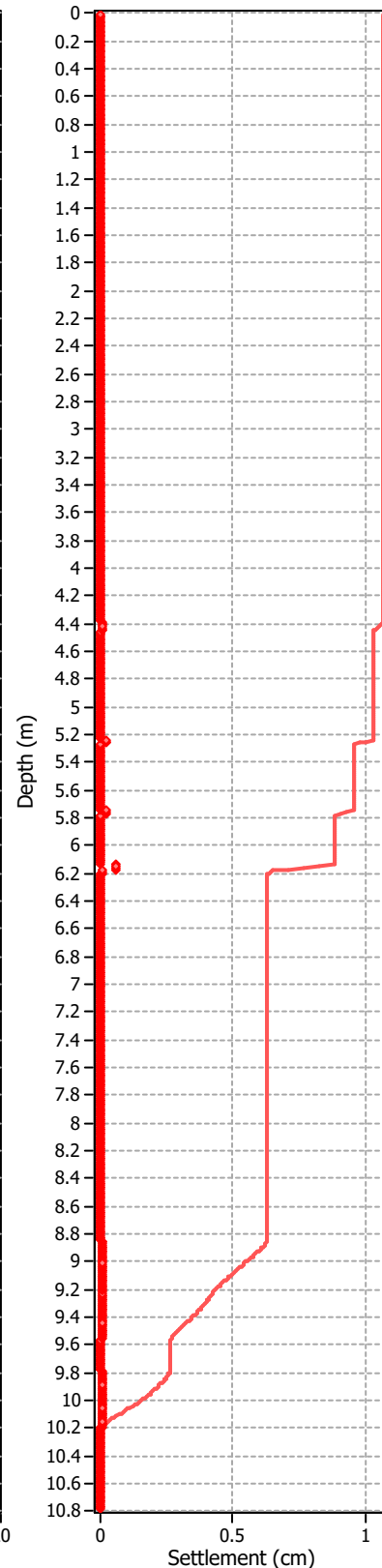
**FS Plot**



**LPI**



**Vertical settlements**



Analysis method: NCEER (1998)  
Fines correction method: NCEER (1998)  
Points to test: Based on Ic value  
Earthquake magnitude  $M_w$ : 5.60  
Peak ground acceleration: 0.13

G.W.T. (in-situ): 0.70 m  
G.W.T. (earthq.): 0.70 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  
Trans. detect. applied: No  
 $K_0$  applied: Yes

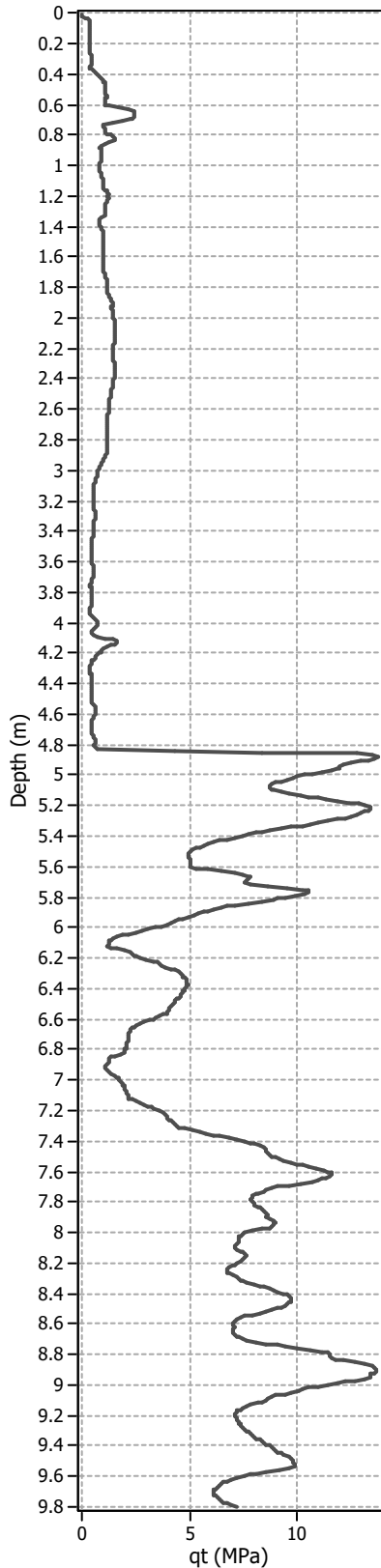
Clay like behavior applied: Sands only  
Limit depth applied: No  
Limit depth: N/A  
MSF method: Method based



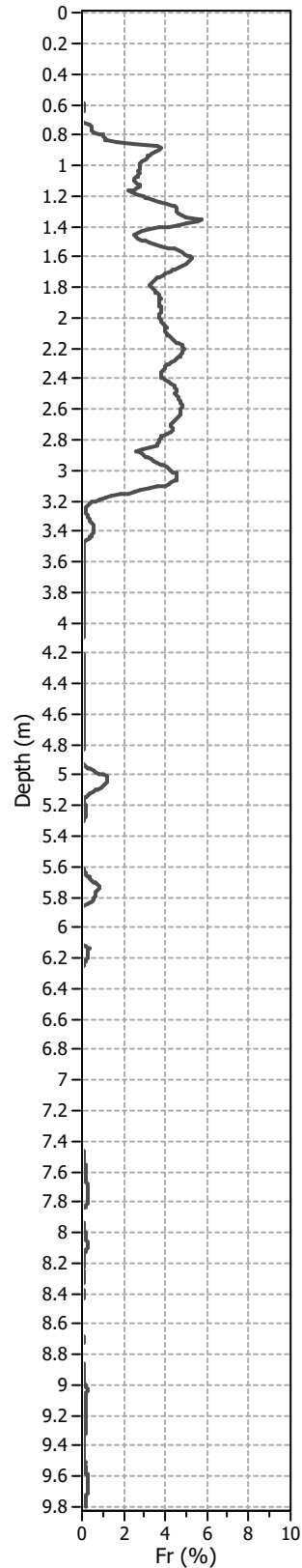
**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica  
**Location:** Monticelli d'Ongina

**CPT: 3.30**  
Total depth: 9.80 m

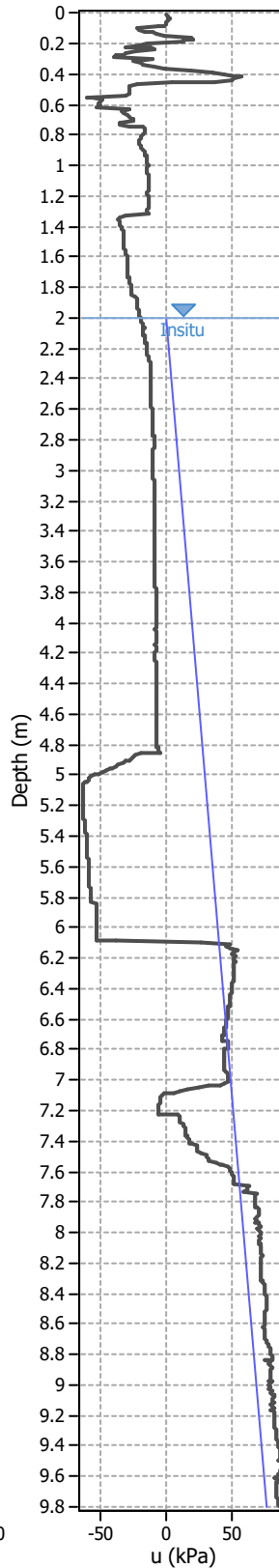
**Cone resistance**



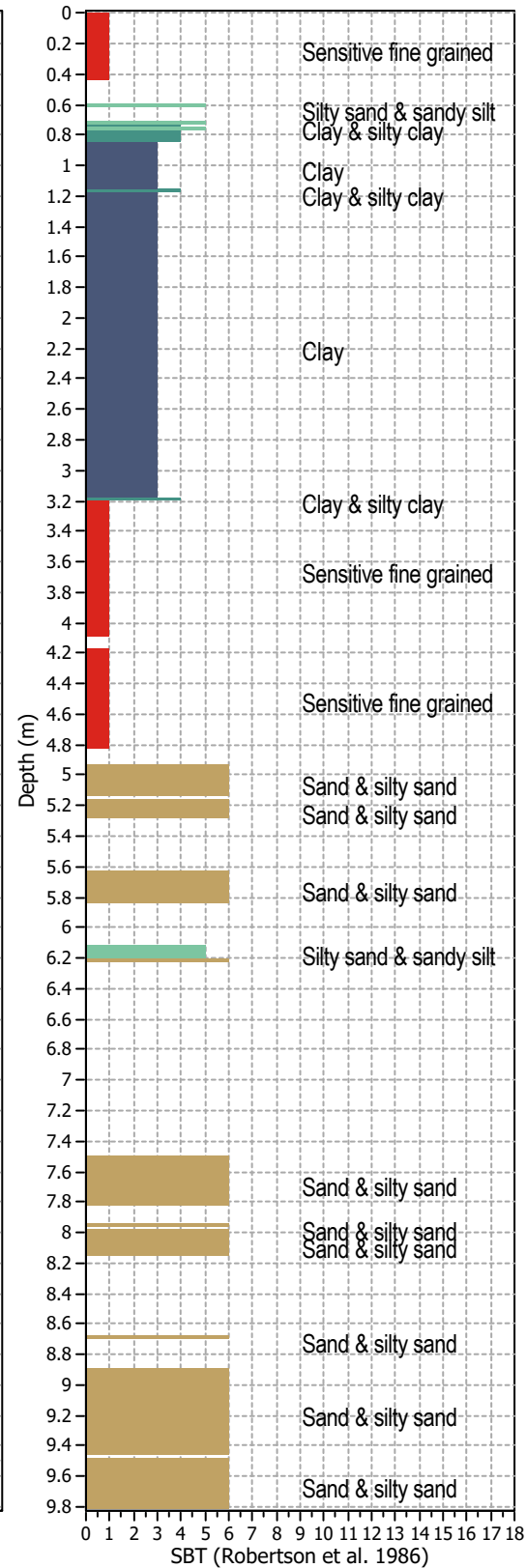
**Norm. friction ratio**



**Pore pressure**



**Soil Behaviour Type**



Analysis method: NCEER (1998)  
Fines correction method: NCEER (1998)  
Points to test: Based on Ic value  
Earthquake magnitude  $M_w$ : 5.60  
Peak ground acceleration: 0.13

G.W.T. (in-situ): 2.00 m  
G.W.T. (earthq.): 2.00 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  
Trans. detect. applied: No  
 $K_0$  applied: Yes

Clay like behavior applied: Sands only  
Limit depth applied: No  
Limit depth: N/A  
MSF method: Method based



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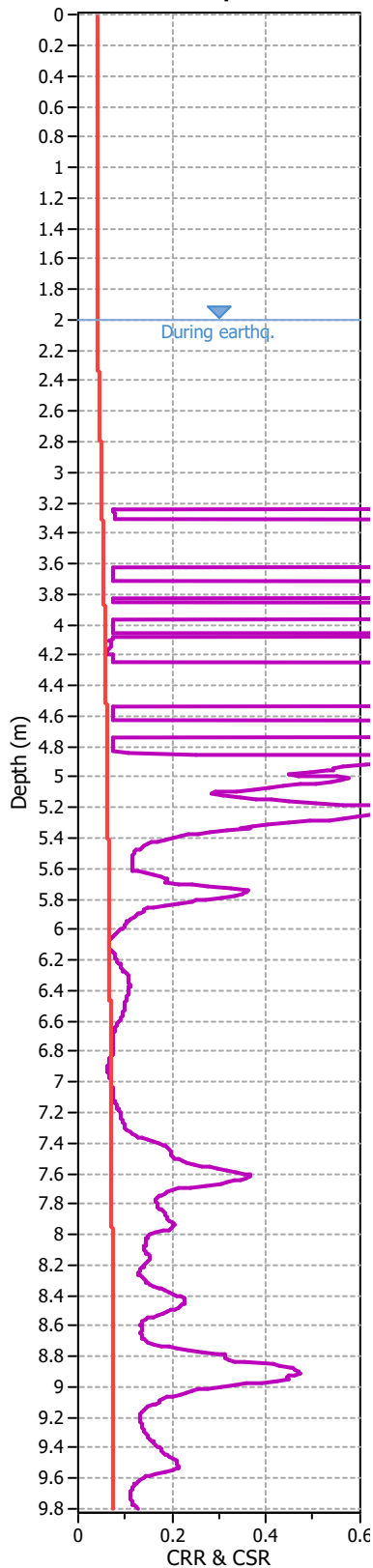
**Project:** Impianto di produzione di energia elettrica da fonte fotovoltaica

**Location:** Monticelli d'Ongina

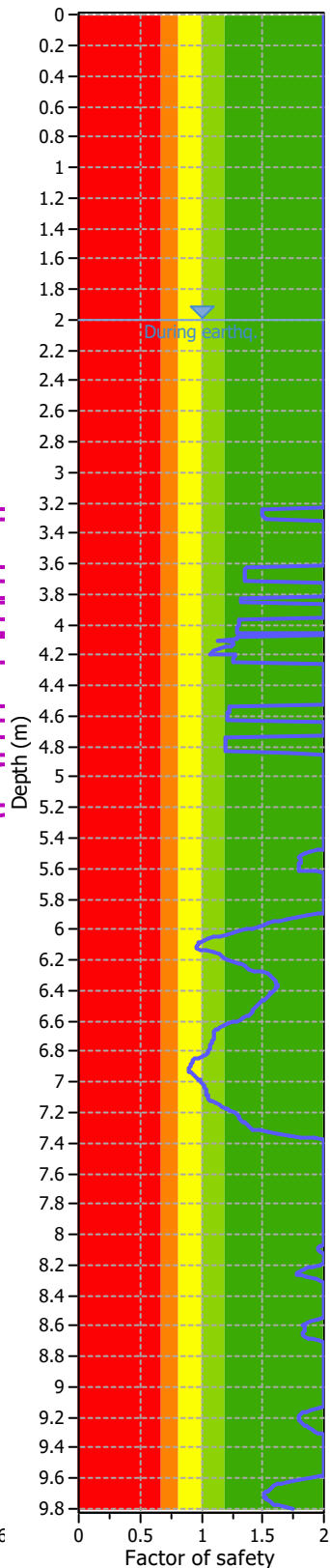
**CPT: 3.30**

Total depth: 9.80 m

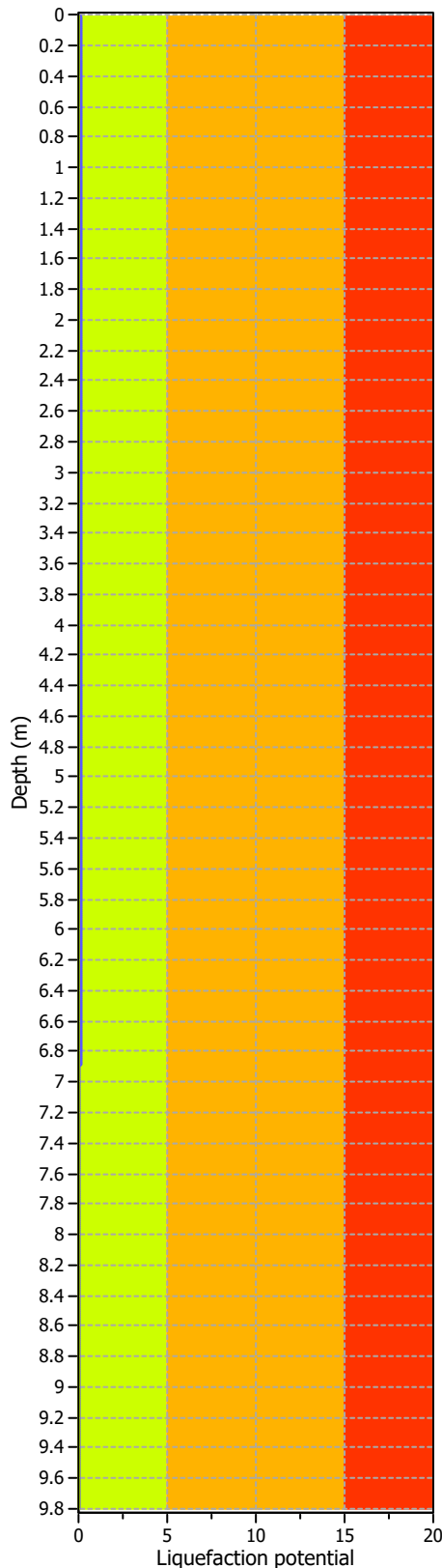
**CRR plot**



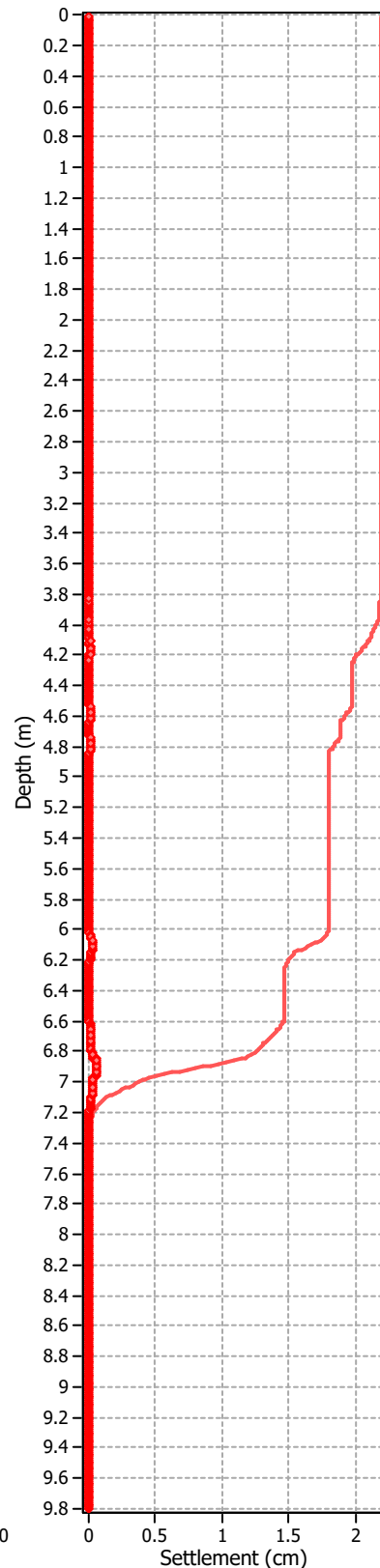
**FS Plot**



**LPI**



**Vertical settlements**



Analysis method: NCEER (1998)  
Fines correction method: NCEER (1998)  
Points to test: Based on Ic value  
Earthquake magnitude  $M_w$ : 5.60  
Peak ground acceleration: 0.13

G.W.T. (in-situ): 2.00 m  
G.W.T. (earthq.): 2.00 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  
Trans. detect. applied: No  
 $K_0$  applied: Yes

Clay like behavior applied: Sands only  
Limit depth applied: No  
Limit depth: N/A  
MSF method: Method based