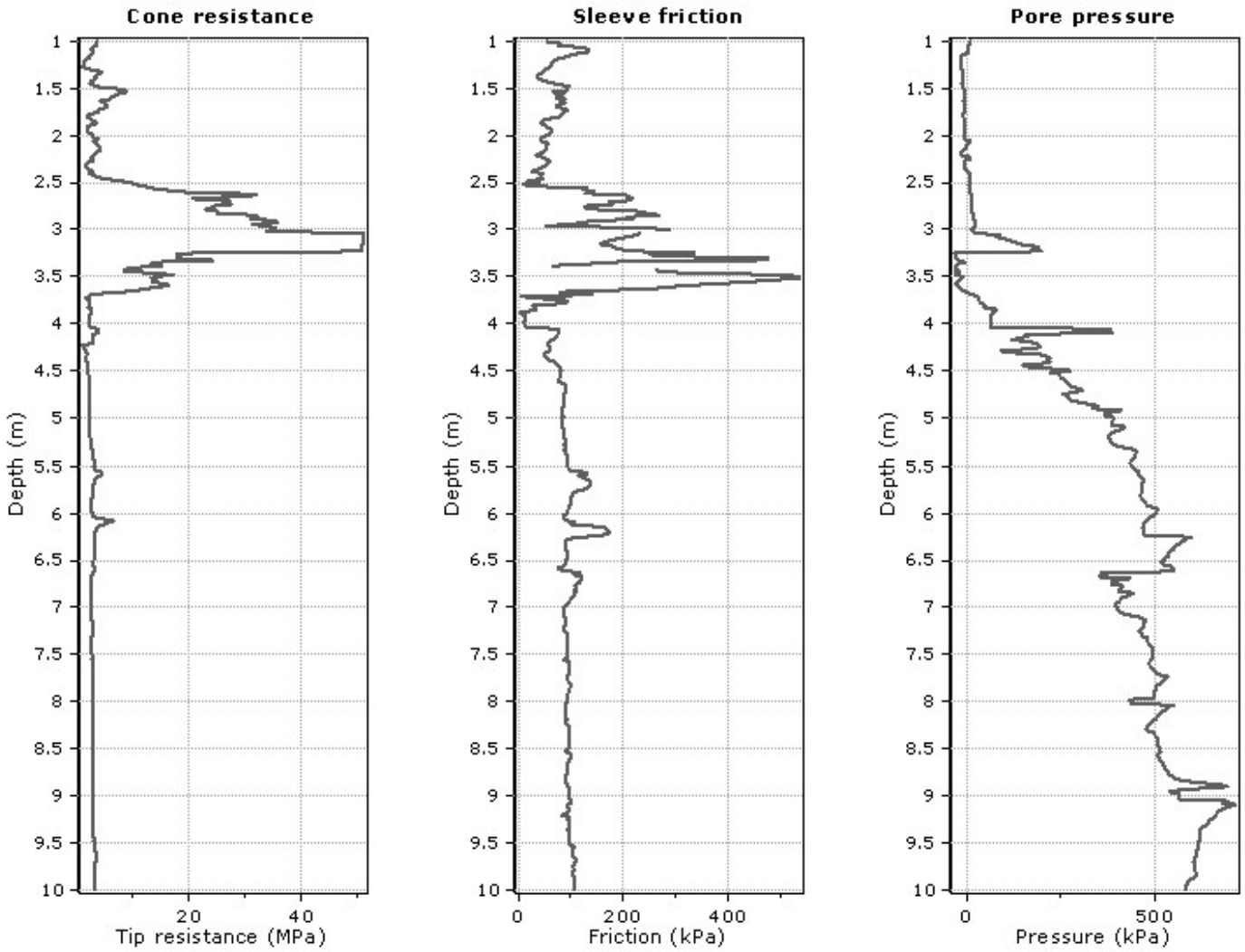
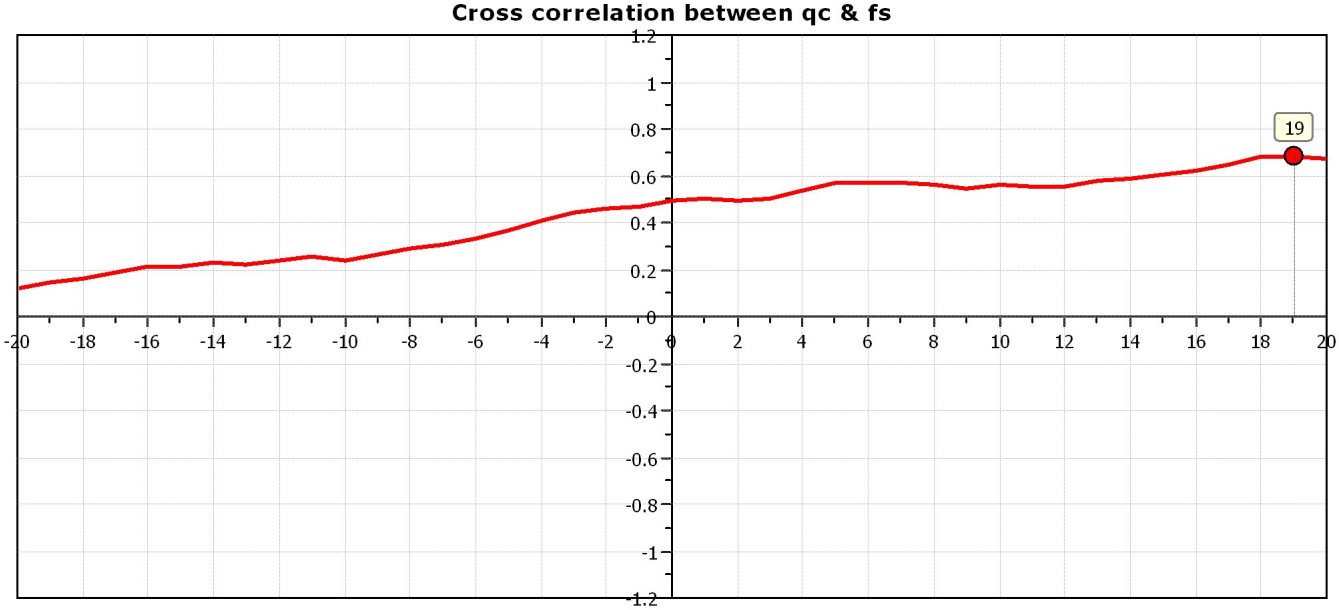
GEOTEA SRL
VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
www.geoteasrl.it

CPT: CPTU1
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



The plot below presents the cross correlation coeficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two sucessive CPT measurements).



GEOTEA SRL
VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
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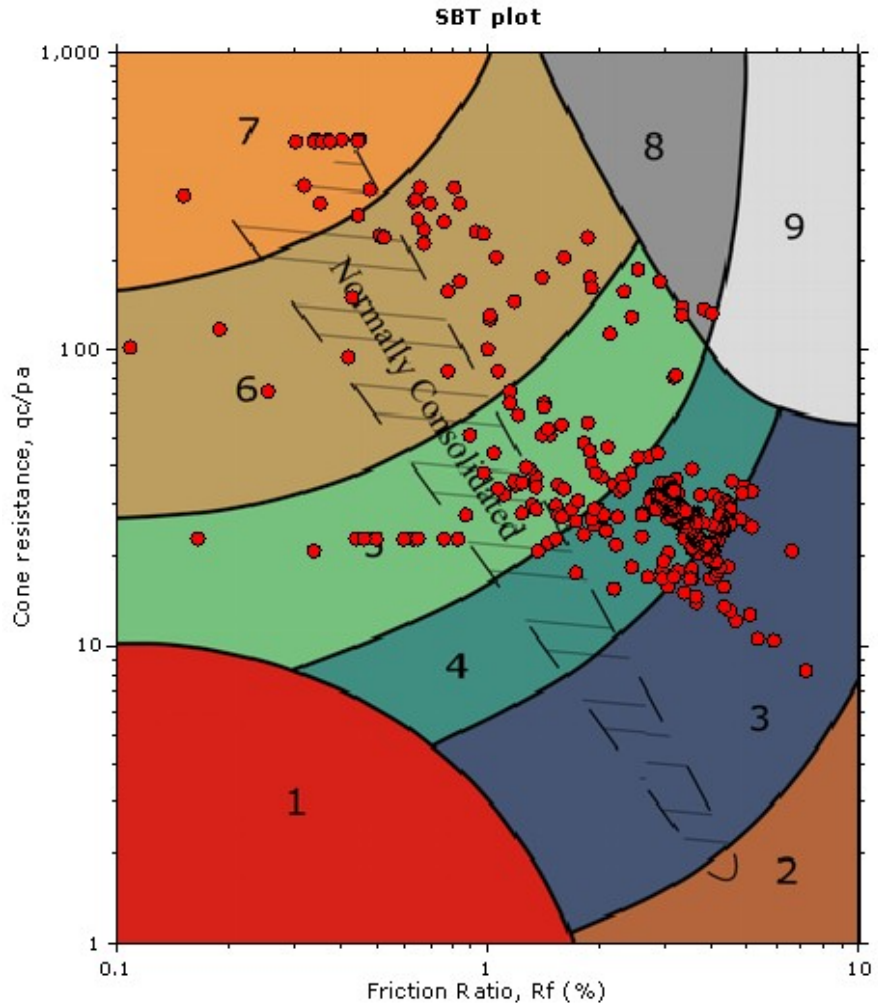
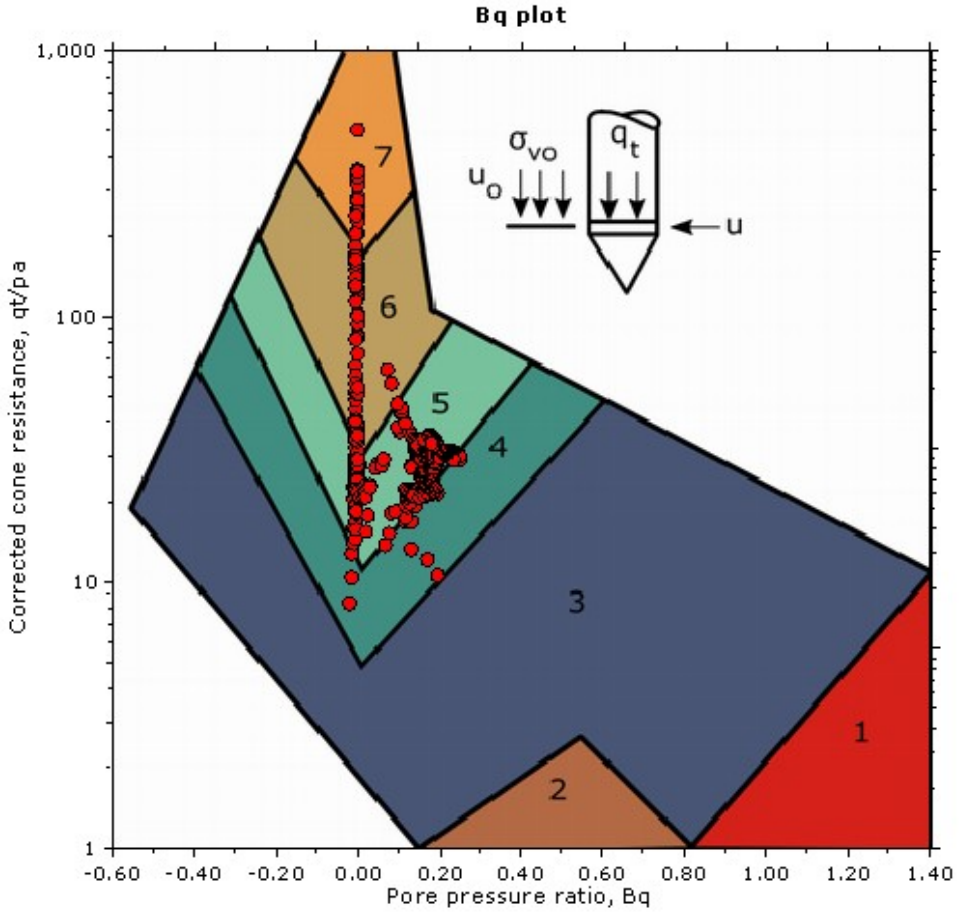
CPT: CPTU1
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**

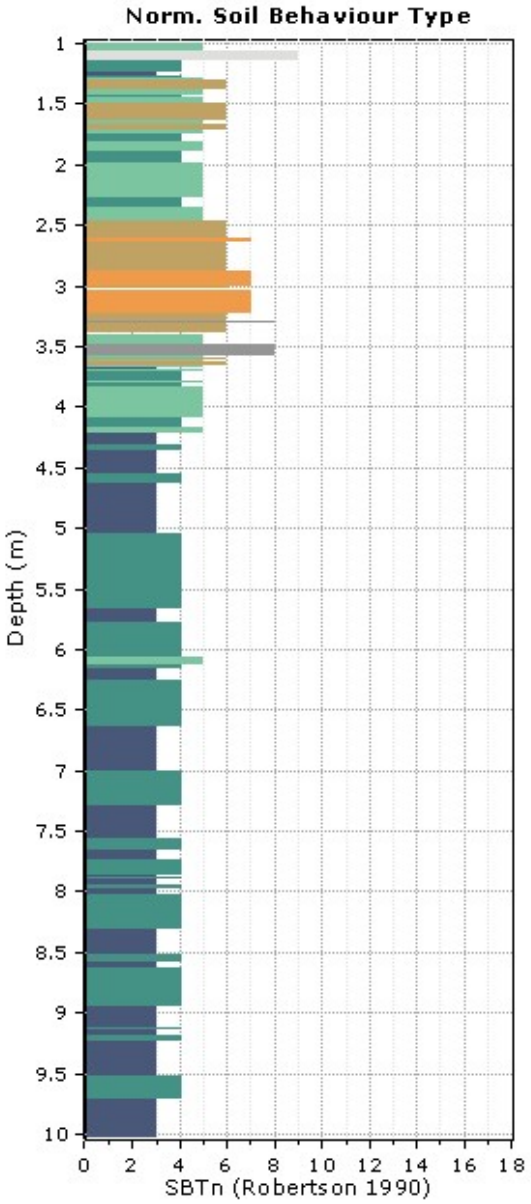
SBT - Bq plots

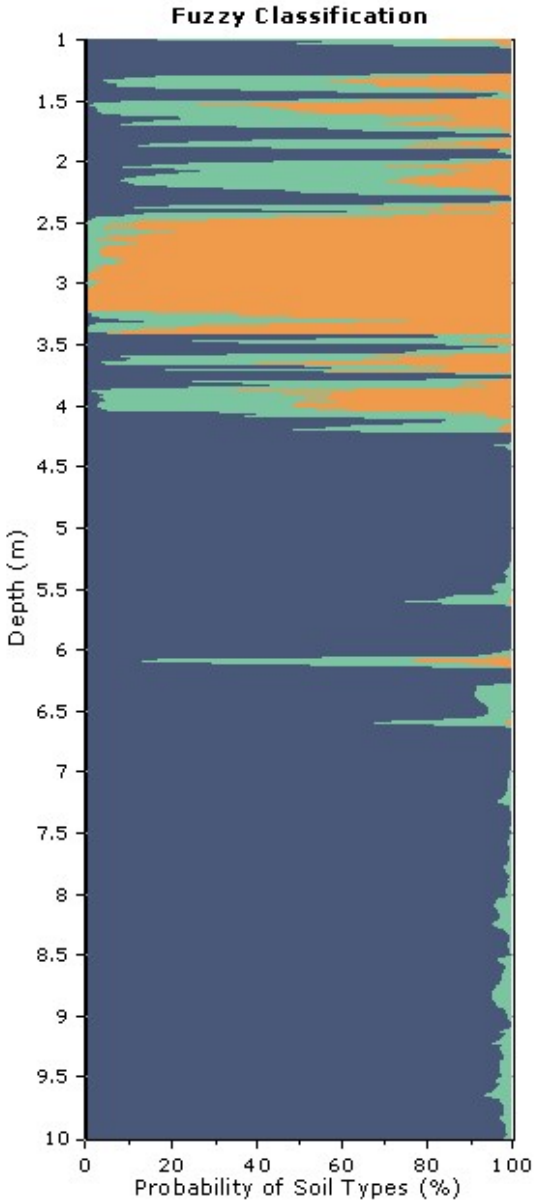




SBT legend

1. Sensitive fine grained	4. Clayey silt to silty clay	7. Gravelly sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to clayey sand
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained


Norm. Soil Behaviour Type
Depth (m)
SBTn (Robertson 1990)


Fuzzy Classification
Depth (m)
Probability of Soil Types (%)

GEOTEA SRL
VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
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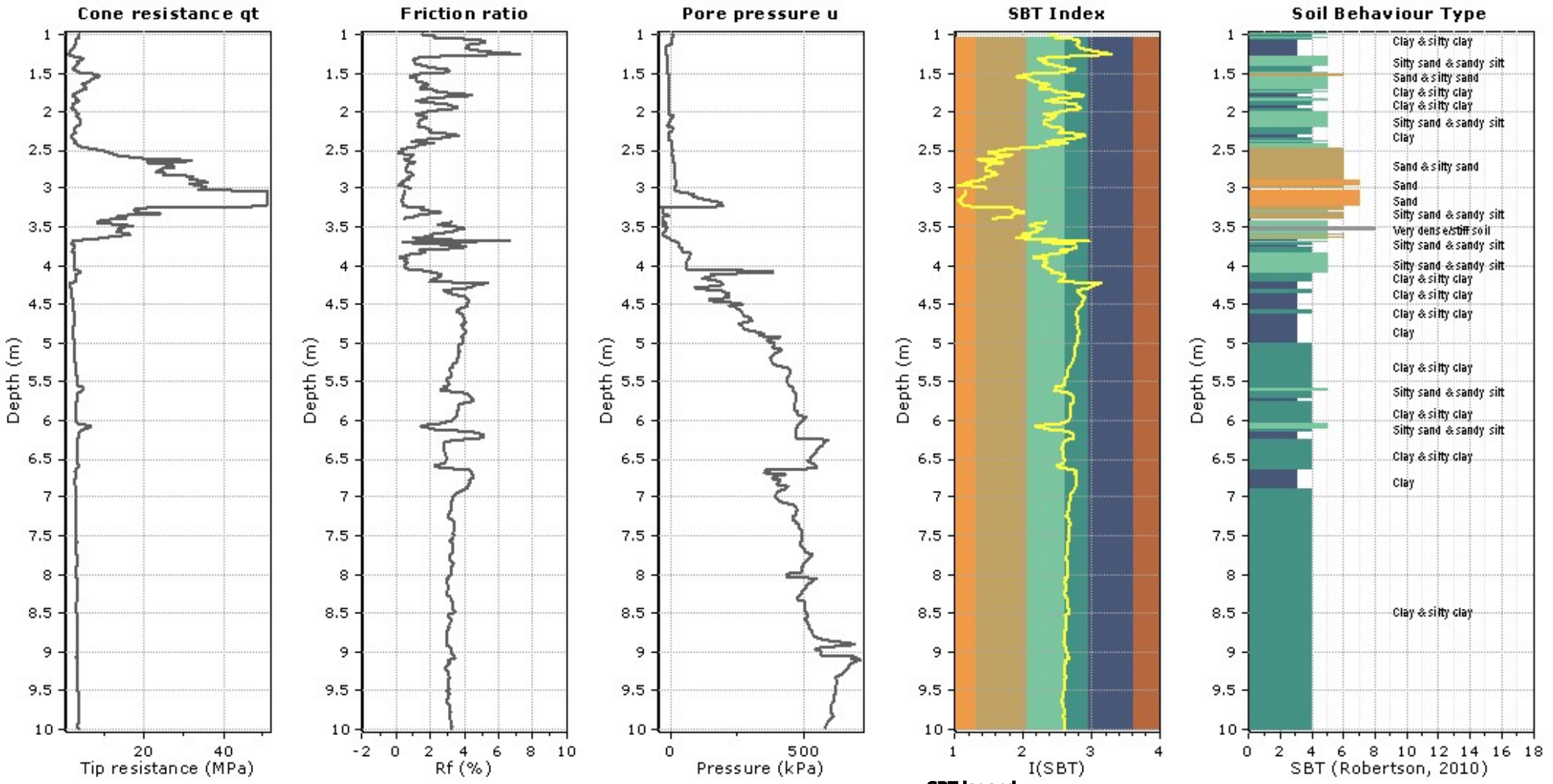
CPT: CPTU1
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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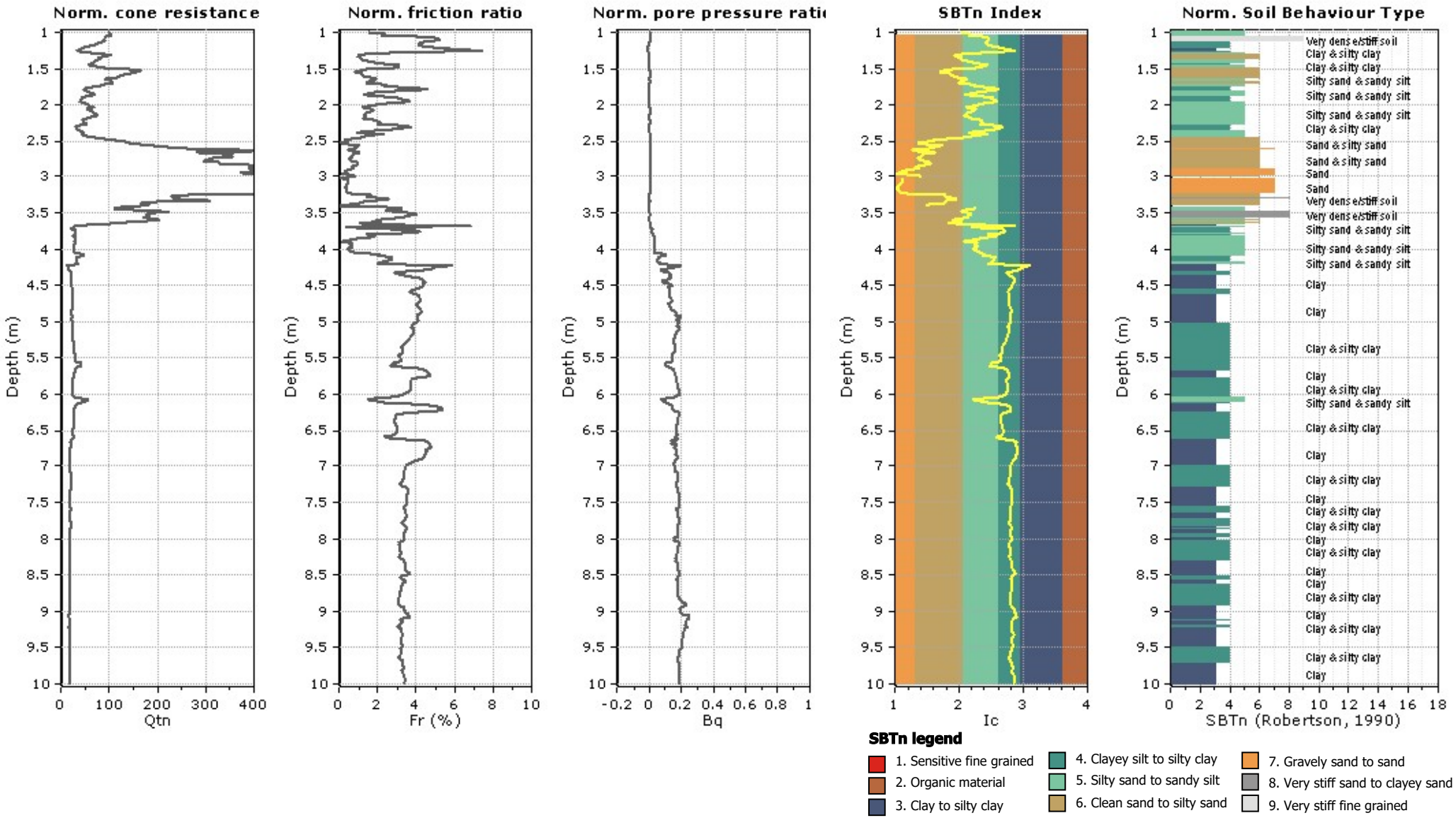
Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**

CPT: CPTU1
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown



GEOTEA SRL
VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
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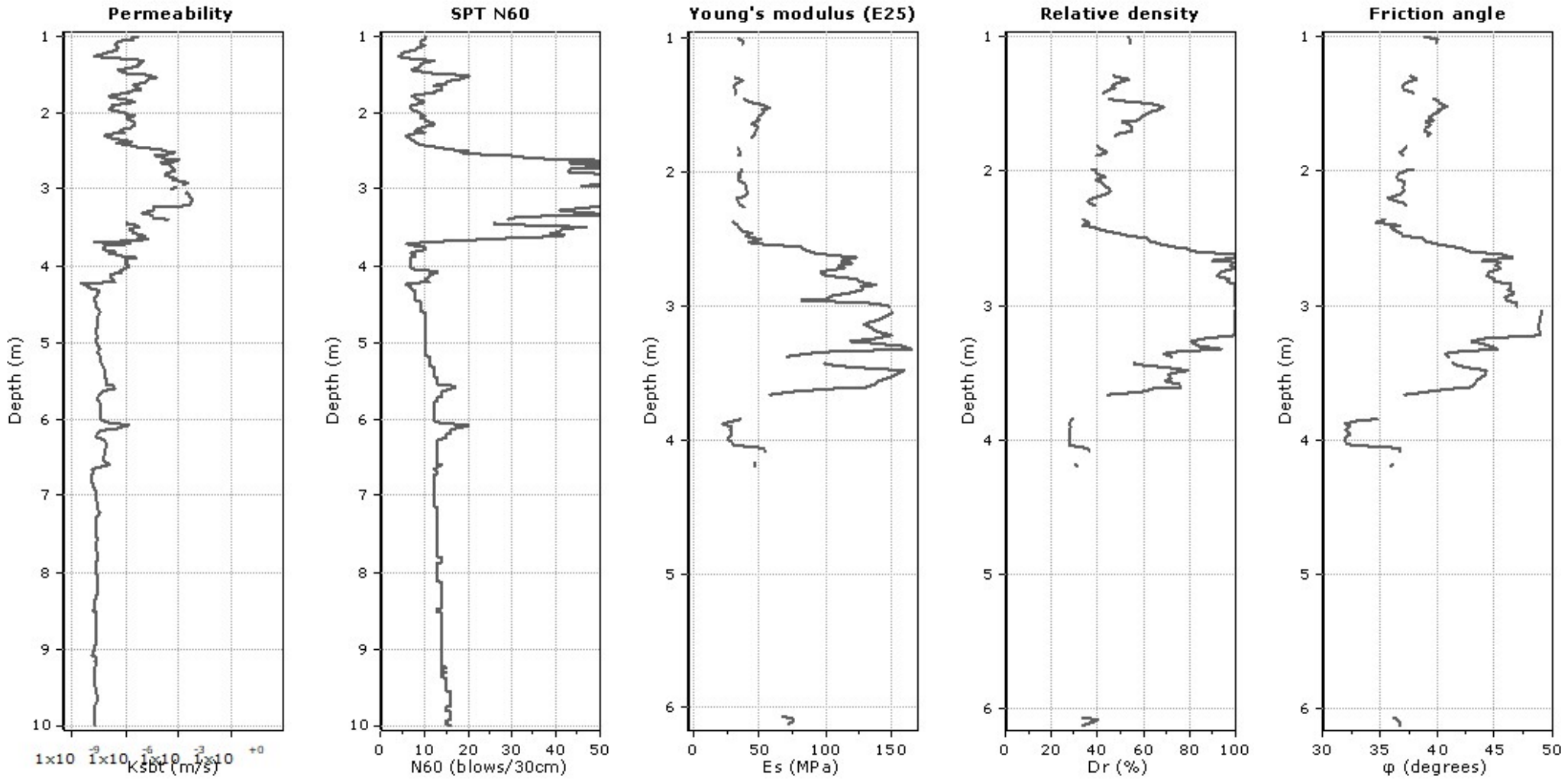
CPT: CPTU1
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



Calculation parameters

Permeability: Based on SBT_n
SPT N_{60}: Based on I_c and q_t
Young's modulus: Based on variable alpha using I_c (Robertson, 2009)
Relative density constant, C_{Dr}: 350.0
Phi: Based on Kulhawy & Mayne (1990)
User defined estimation data

GEOTEA SRL
VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
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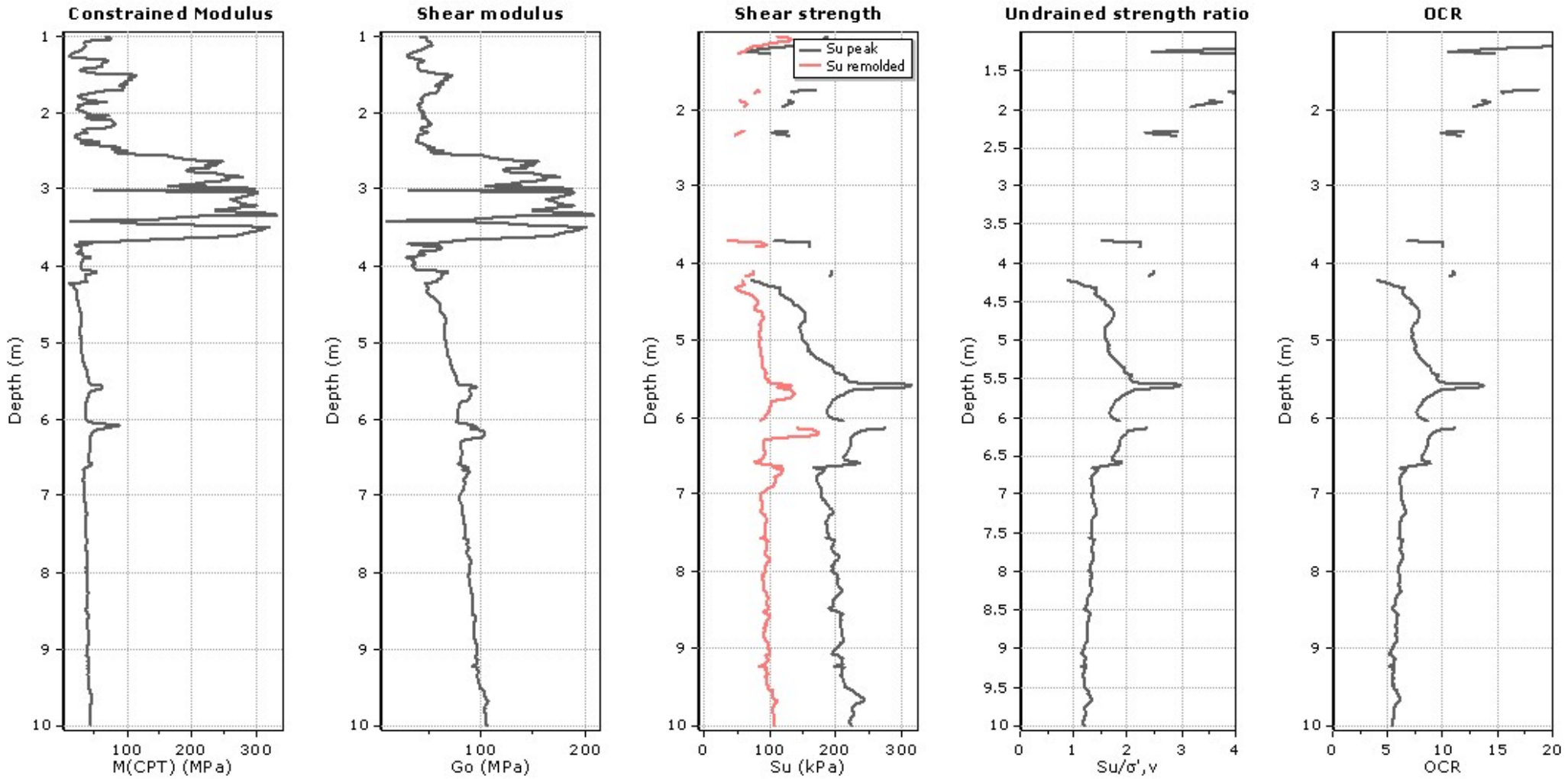
CPT: CPTU1
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



Calculation parameters

Constrained modulus: Based on variable *alpha* using I_c and Q_{tn} (Robertson, 2009)
Go: Based on variable *alpha* using I_c (Robertson, 2009)
Undrained shear strength cone factor for clays, N_{kt}: 14
OCR factor for clays, N_{kt}: 0.33
User defined estimation data
Flat Dilatometer Test data

GEOTEA SRL
VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
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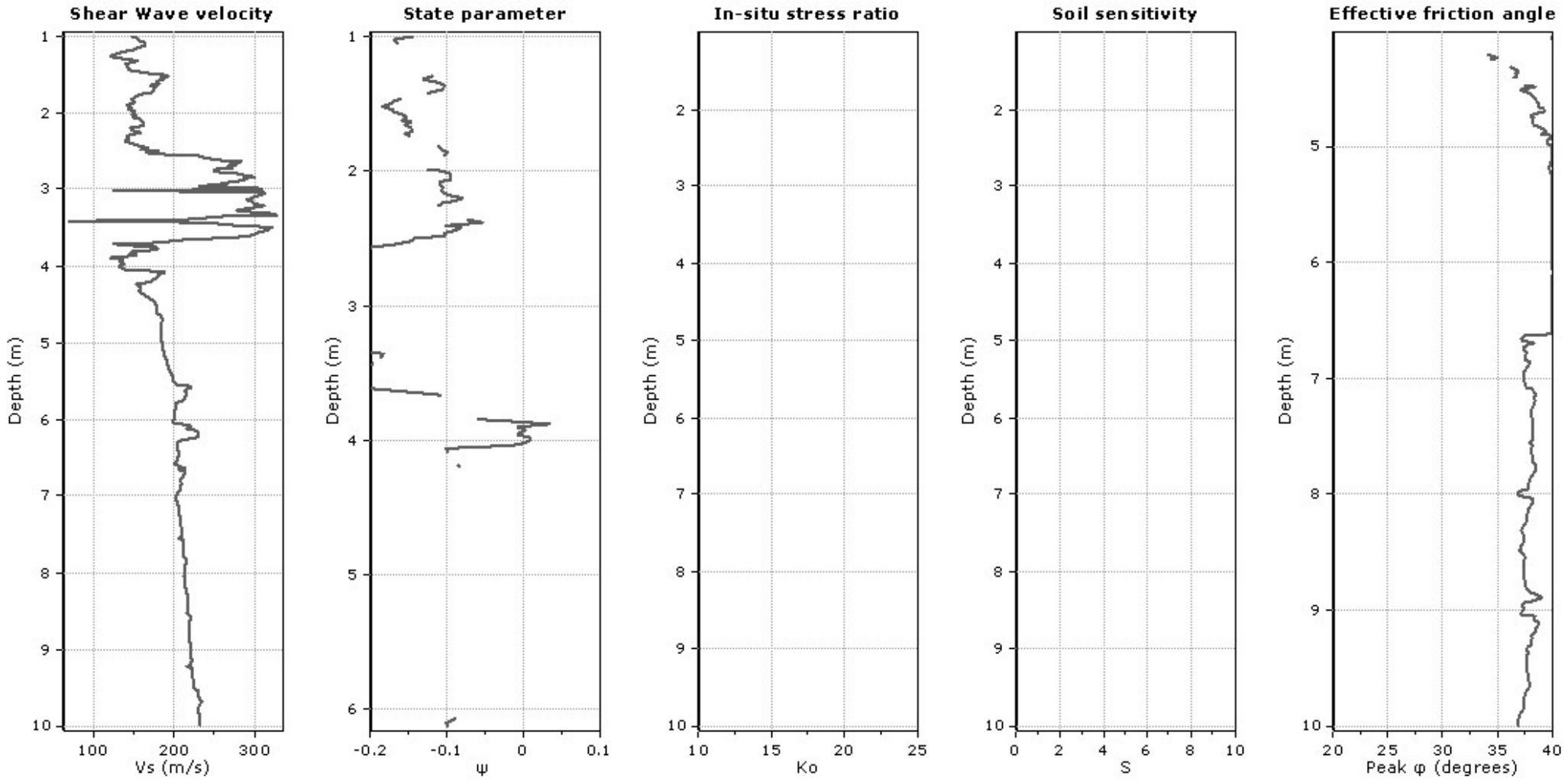
CPT: CPTU1
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



Calculation parameters

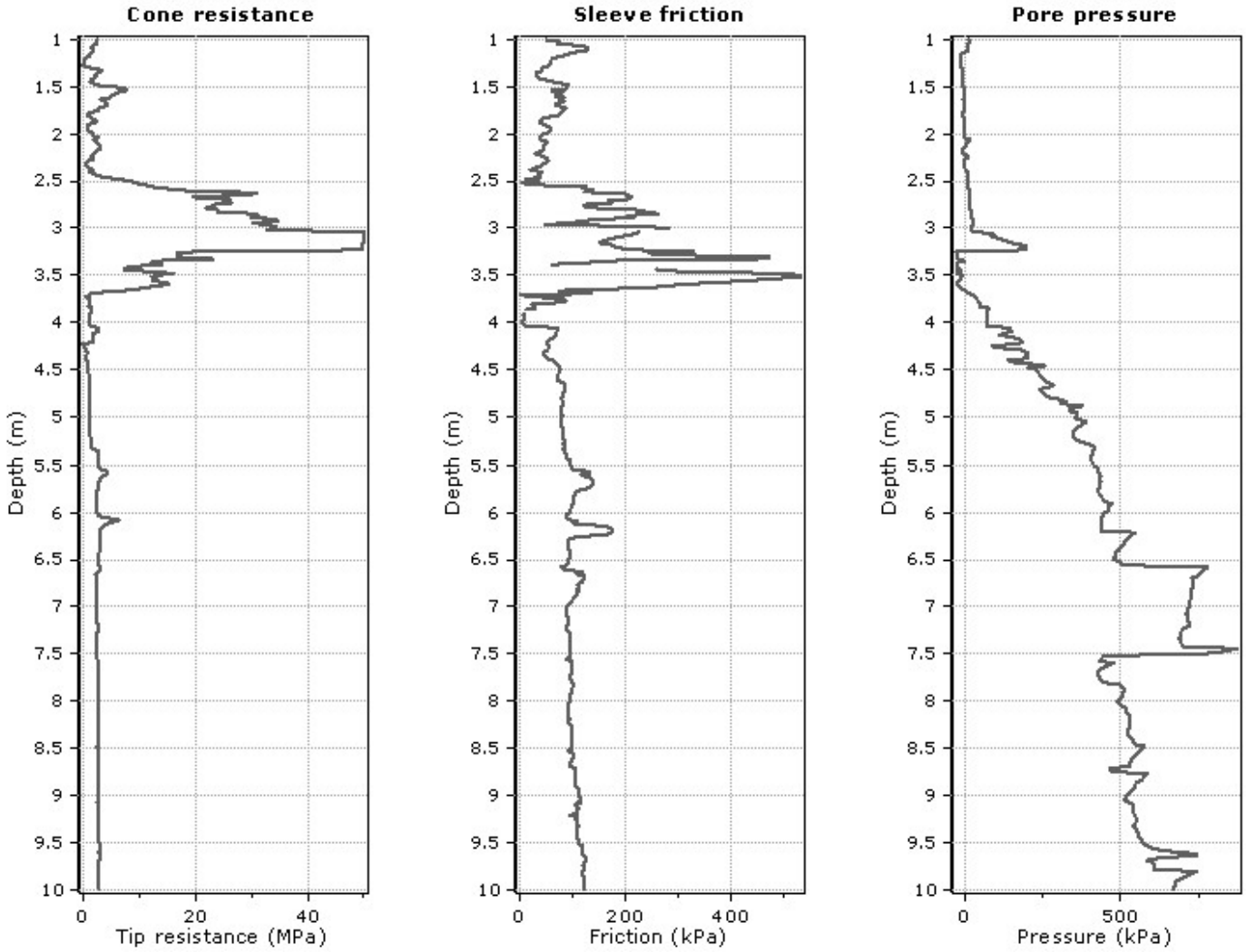
Soil Sensitivity factor, N_S: 350.00

User defined estimation data

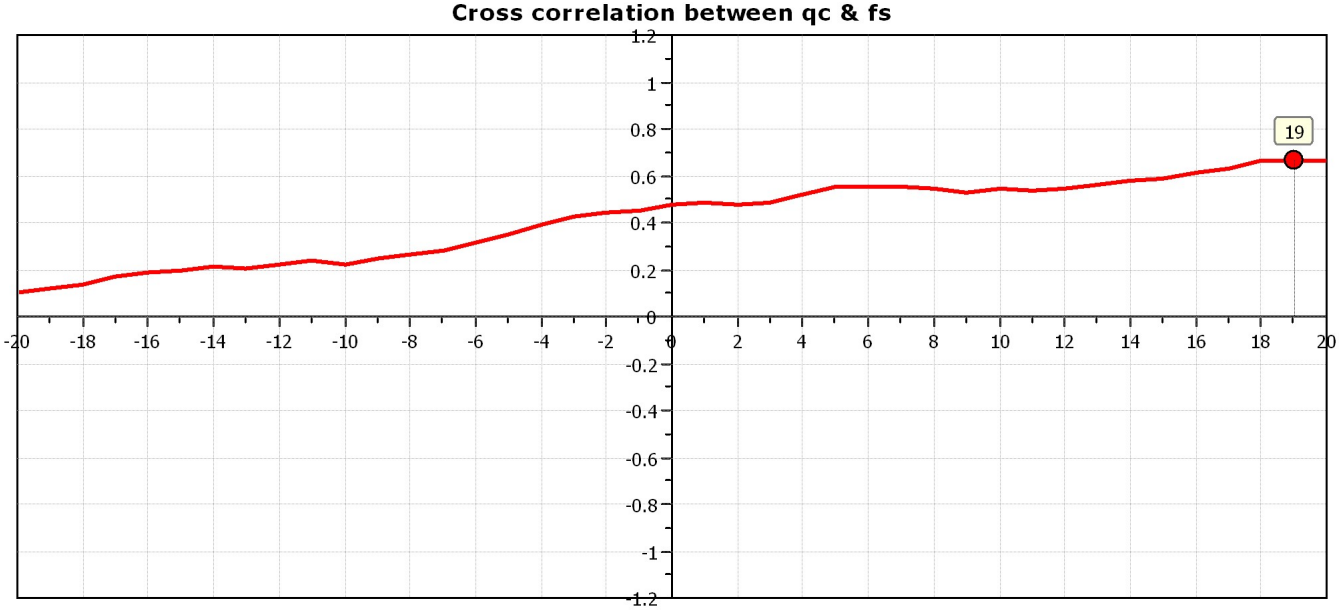
GEOTEA SRL
VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
www.geoteasrl.it

CPT: CPTU2
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



The plot below presents the cross correlation coeficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two sucessive CPT measurements).



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VIA della TECNICA 57/A4
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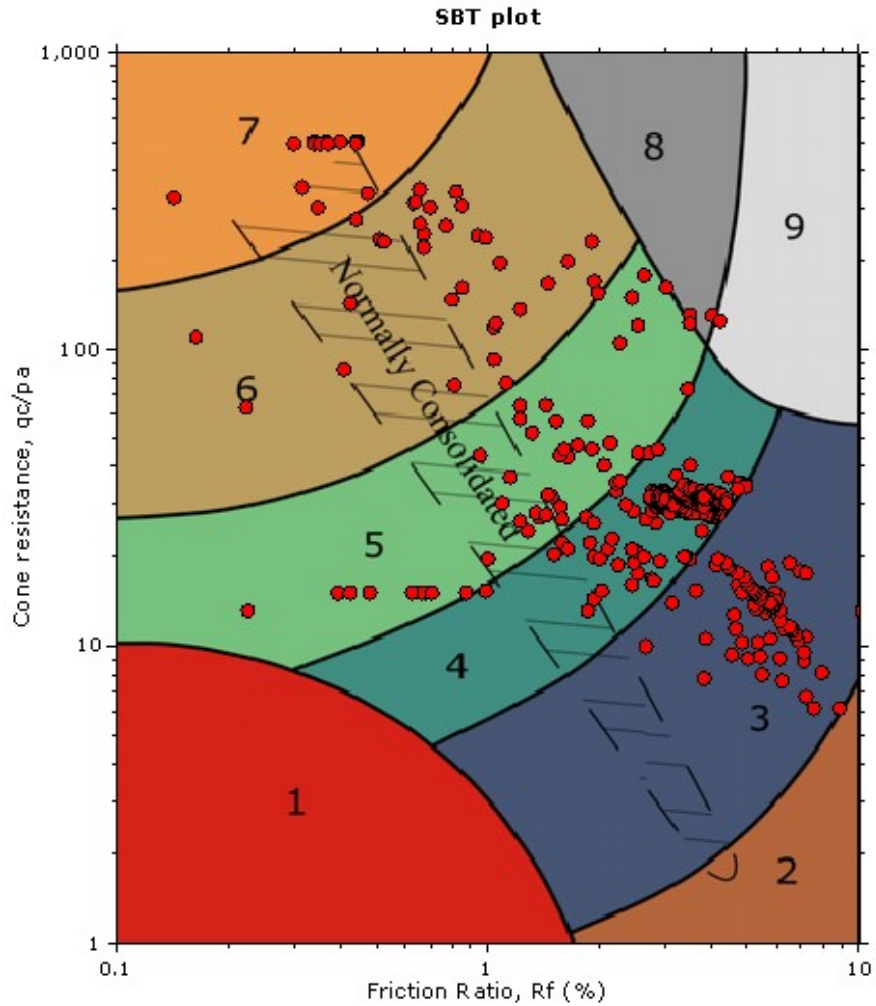
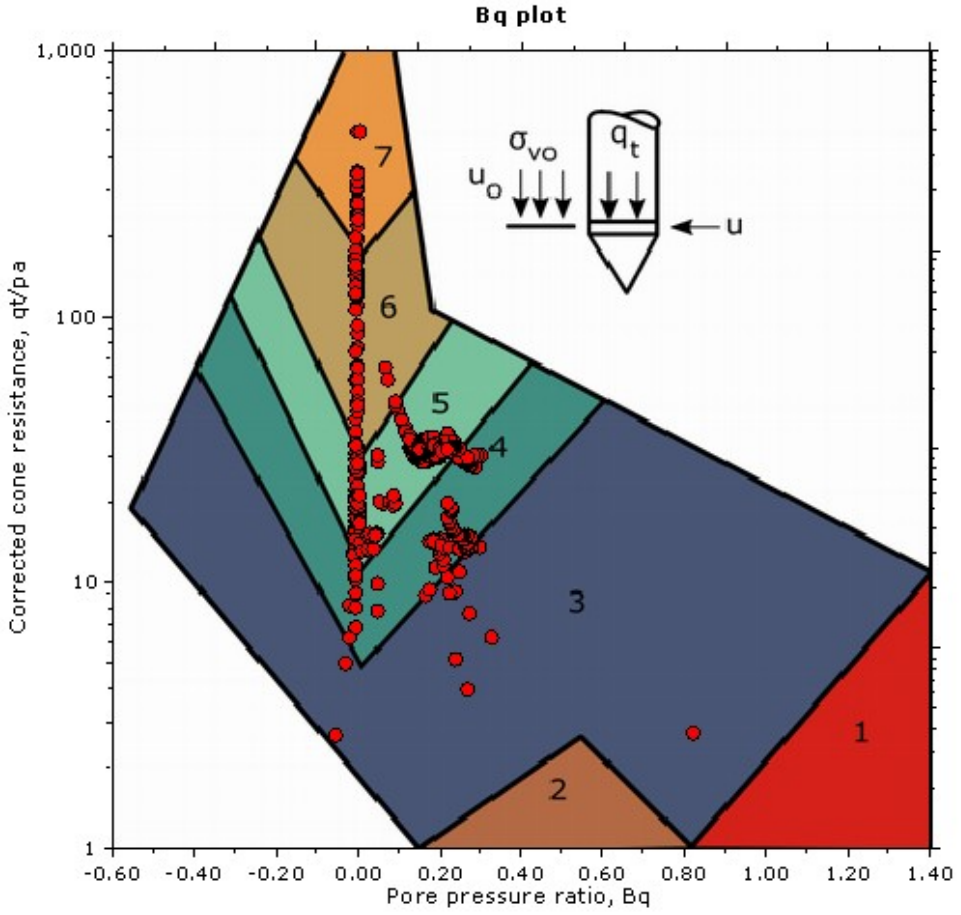
Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**

CPT: CPTU2
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

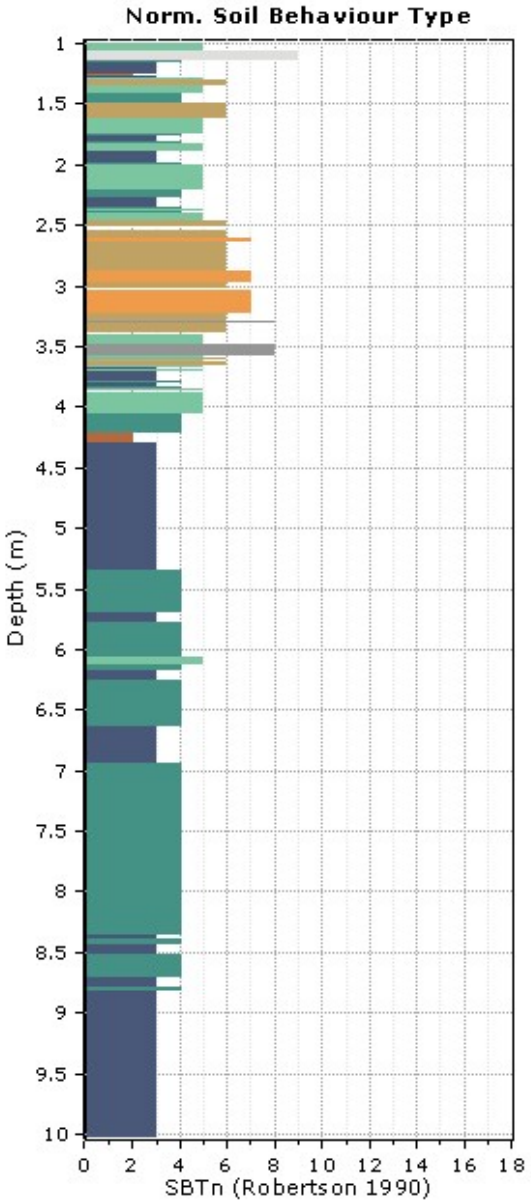
SBT - Bq plots

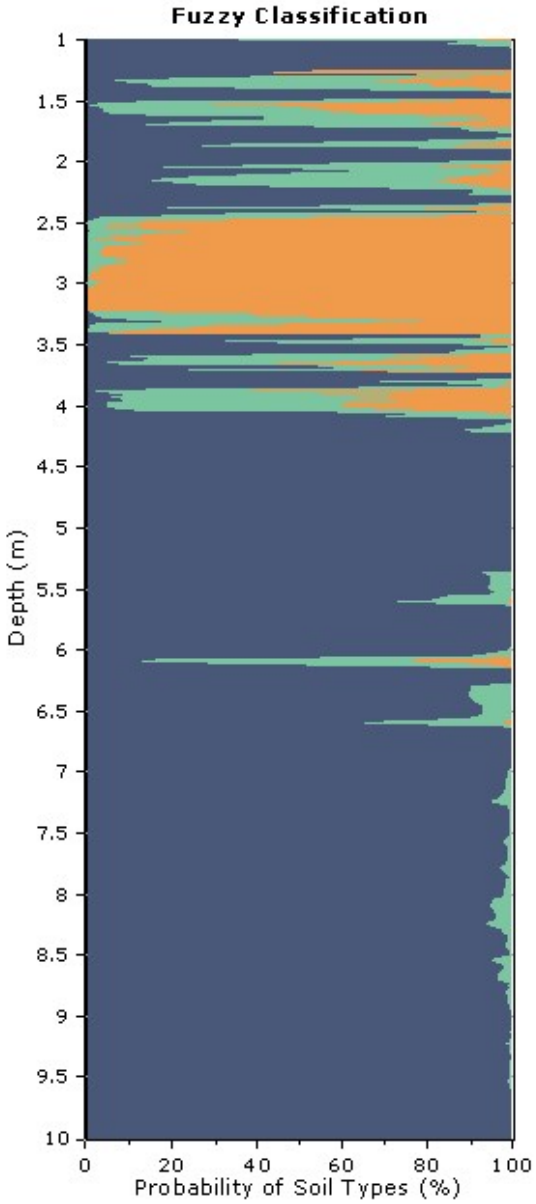




SBT legend

1. Sensitive fine grained	4. Clayey silt to silty clay	7. Gravelly sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to clayey sand
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

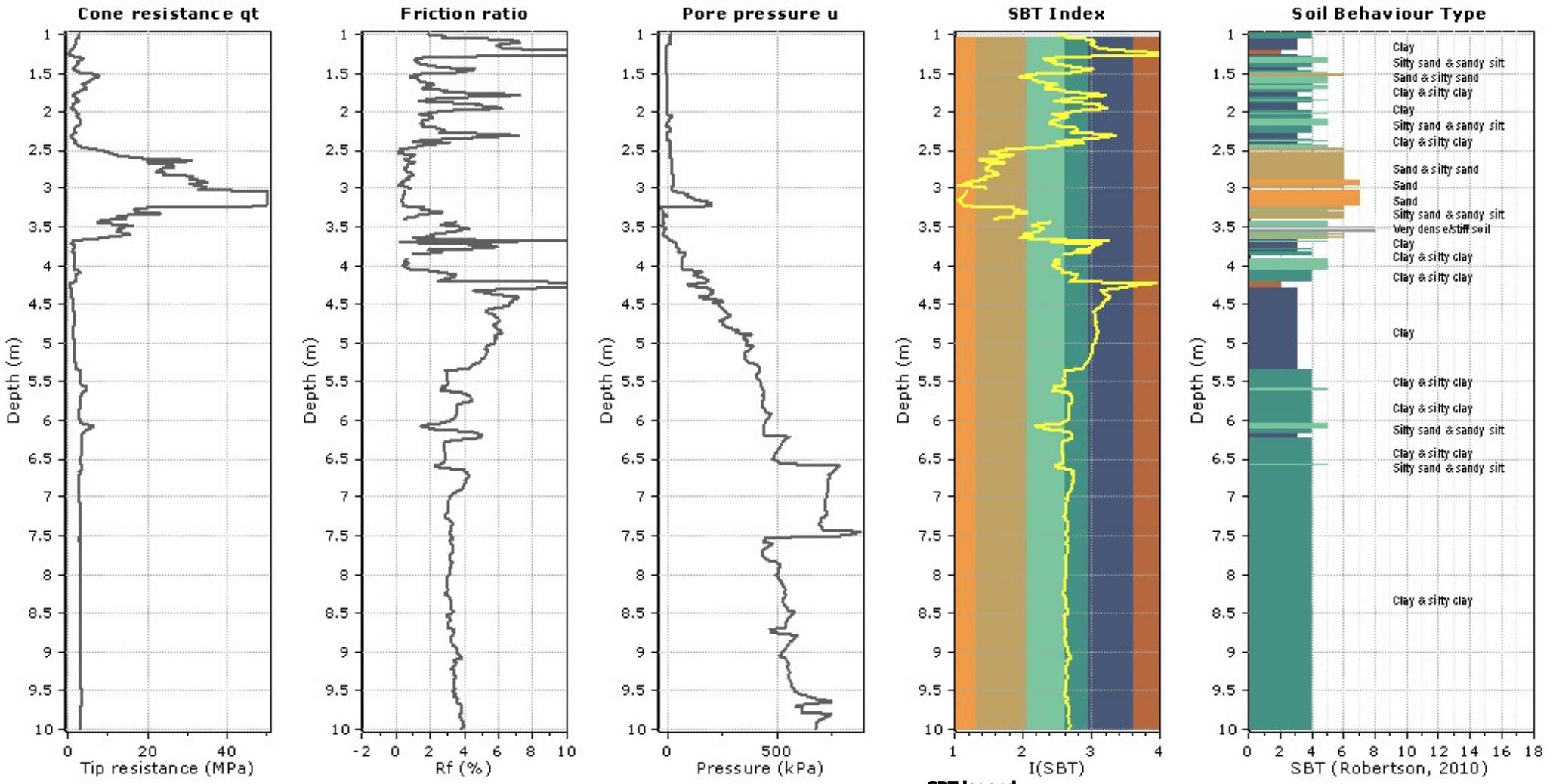

Norm. Soil Behaviour Type
Depth (m)
SBTn (Robertson 1990)


Fuzzy Classification
Depth (m)
Probability of Soil Types (%)

GEOTEA s.r.l.
Geologia Territorio Ambiente
GEOTEA SRL
VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
www.geoteasrl.it

CPT: CPTU2
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



GEOTEA SRL
VIA della TECNICA 57/A4
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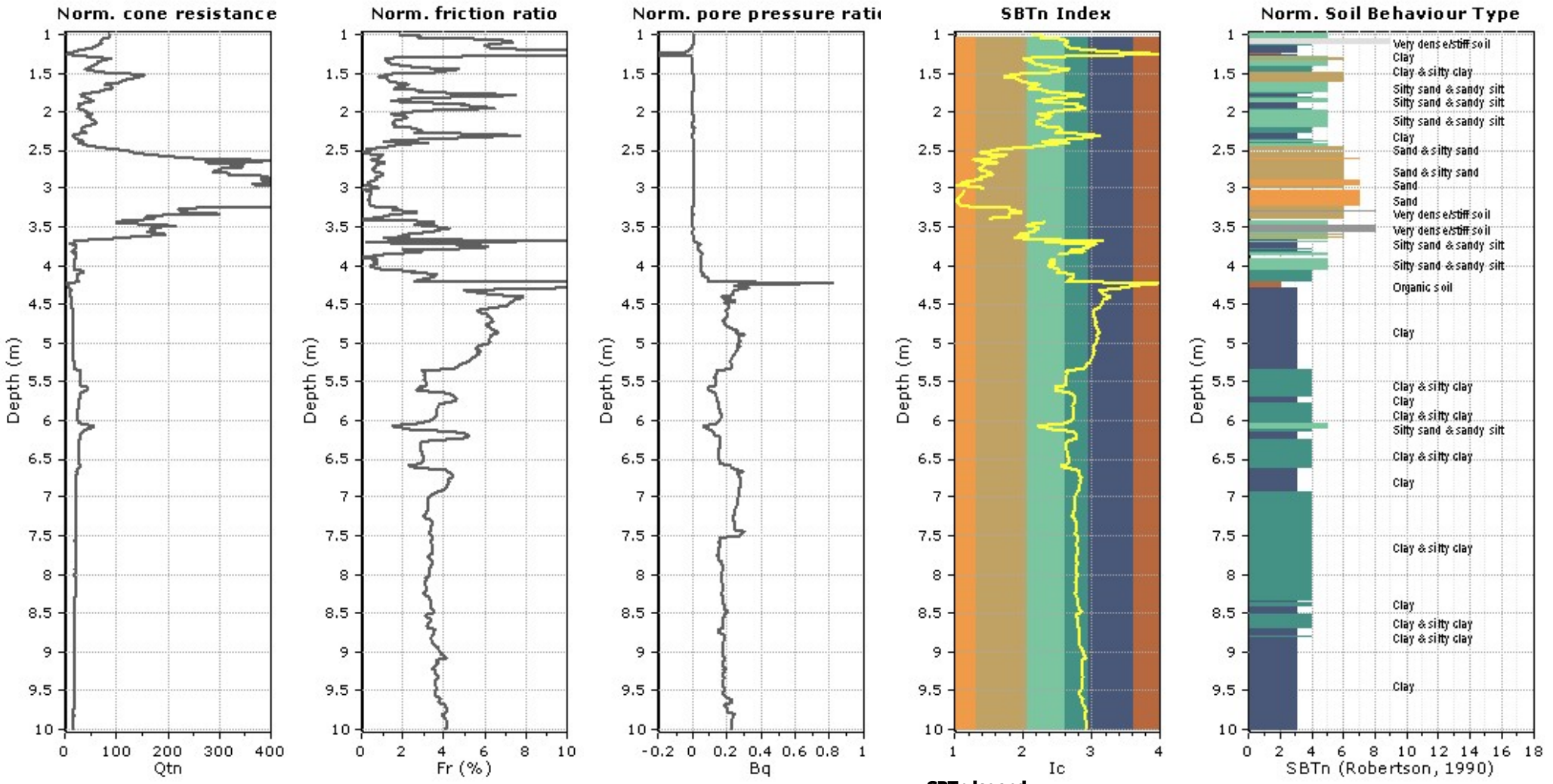
CPT: CPTU2
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



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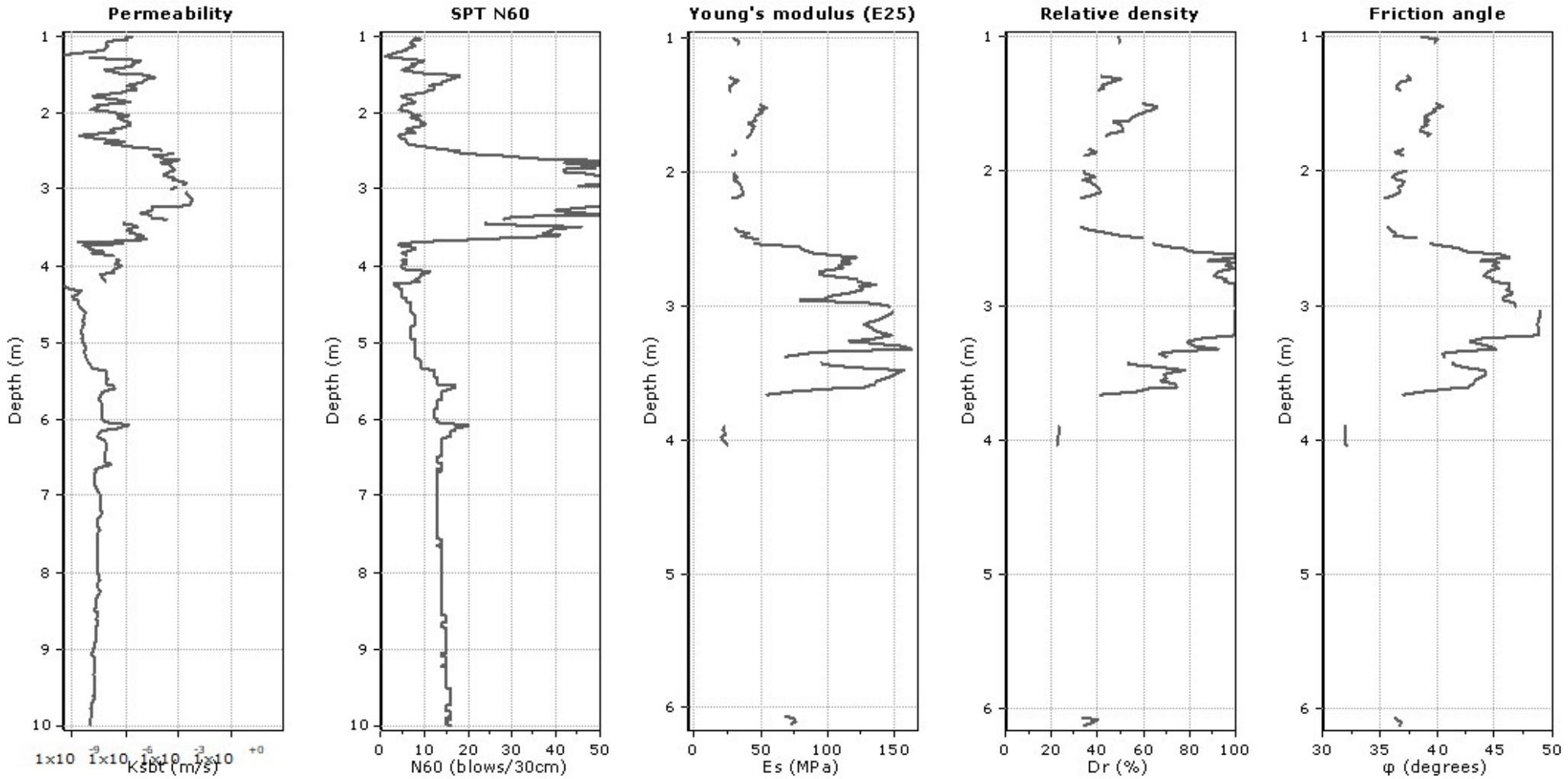
CPT: CPTU2
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



Calculation parameters

Permeability: Based on SBT_n
SPT N_{60}: Based on I_c and q_t
Young's modulus: Based on variable alpha using I_c (Robertson, 2009)
Relative density constant, C_{Dr}: 350.0
Phi: Based on Kulhawy & Mayne (1990)
User defined estimation data

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VIA della TECNICA 57/A4
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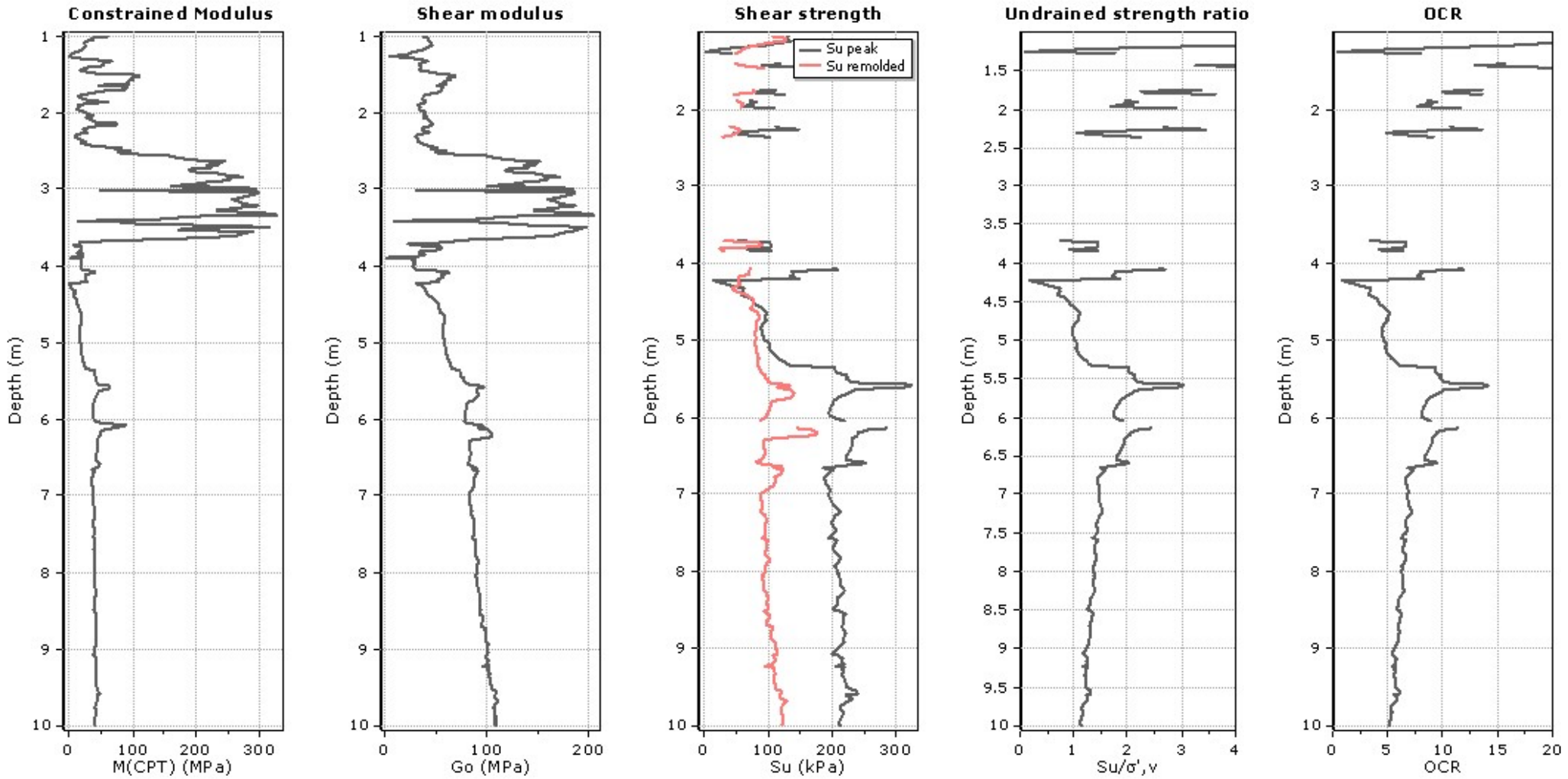
CPT: CPTU2
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



Calculation parameters

Constrained modulus: Based on variable *alpha* using I_c and Q_{tn} (Robertson, 2009)
Go: Based on variable *alpha* using I_c (Robertson, 2009)
Undrained shear strength cone factor for clays, N_{kt}: 14
OCR factor for clays, N_{kt}: 0.33
User defined estimation data
Flat Dilatometer Test data

GEOTEA SRL
VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
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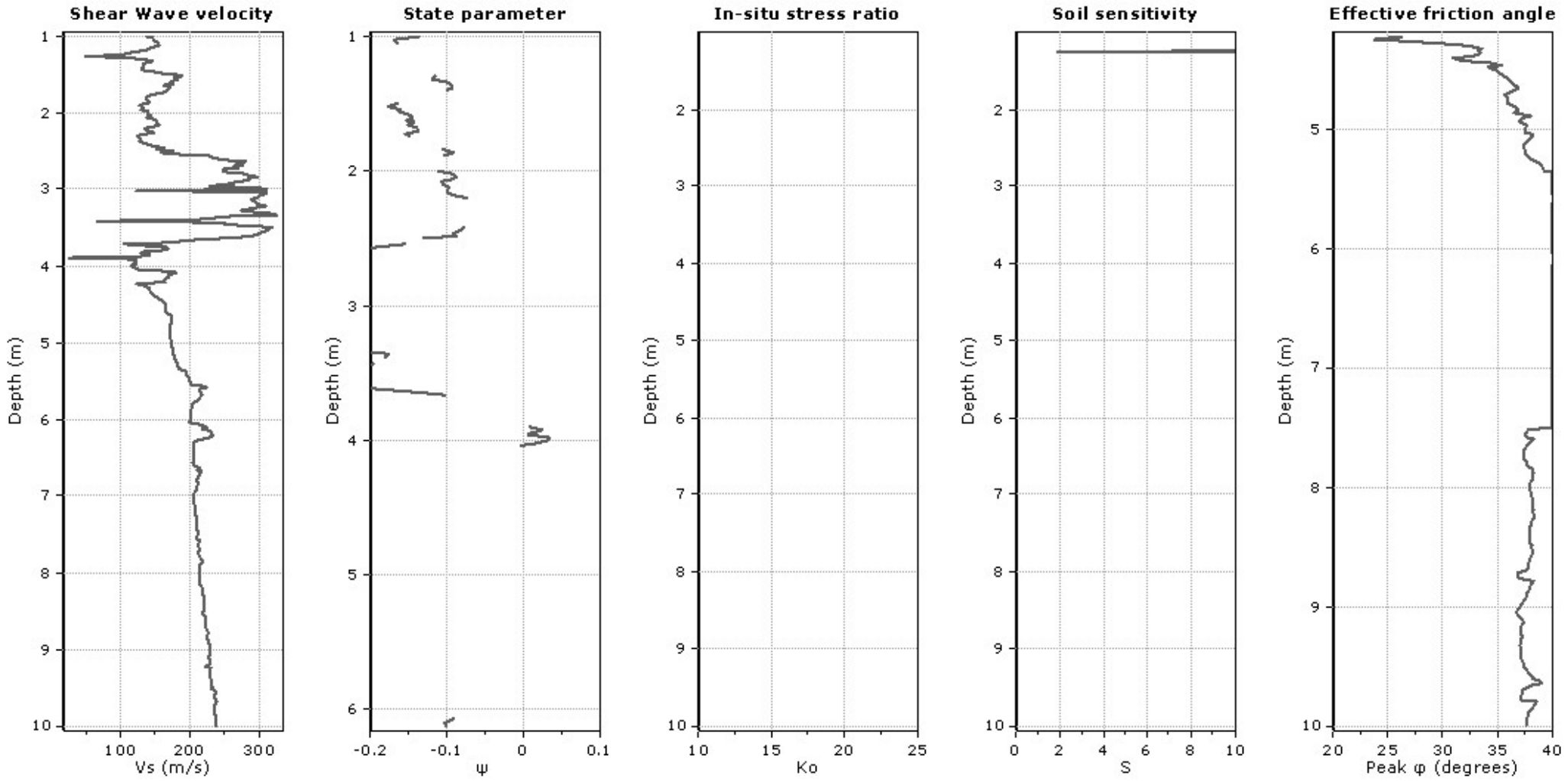
CPT: CPTU2
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



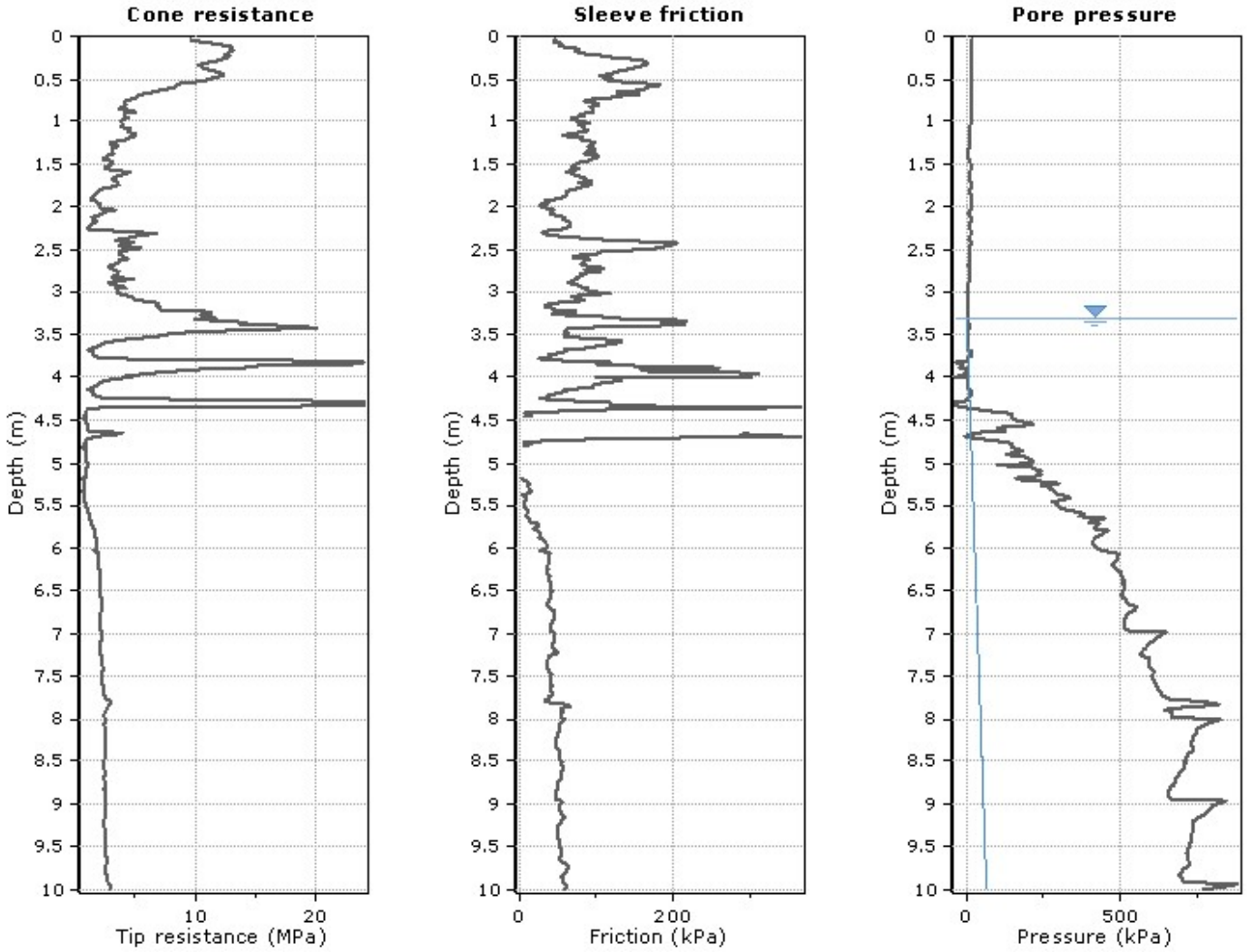
Calculation parameters

Soil Sensitivity factor, N_S: 350.00
User defined estimation data

GEOTEA SRL
VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
www.geoteasrl.it

CPT: CPTU3
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



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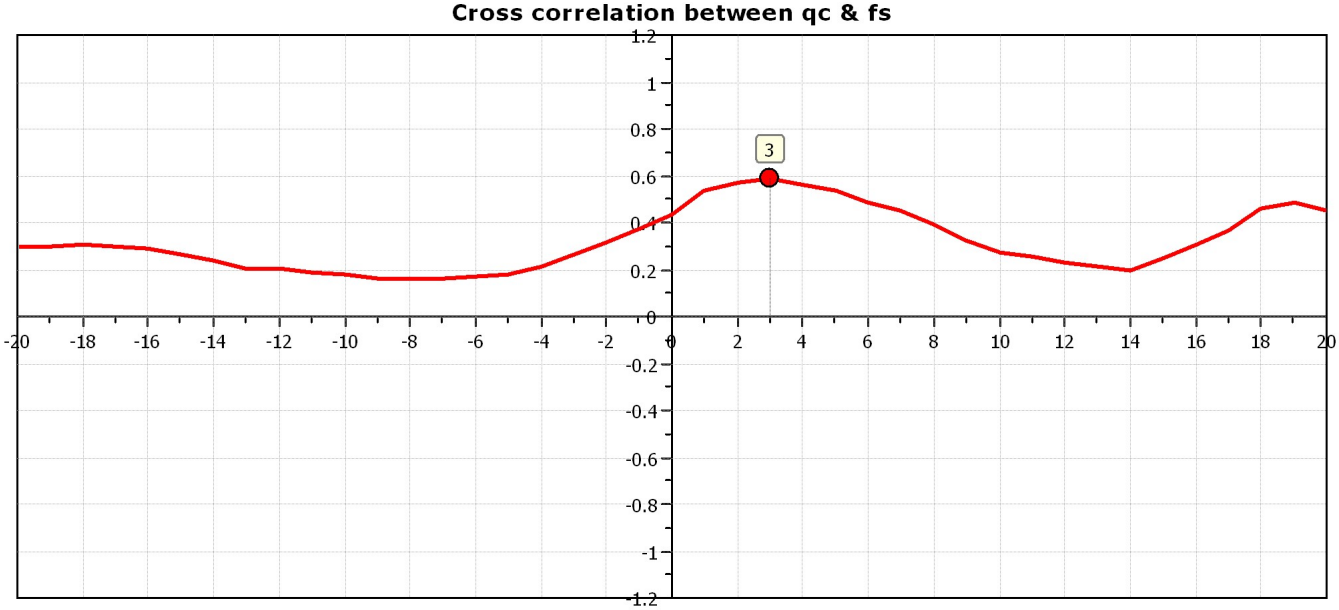

GEOTEA SRL
VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
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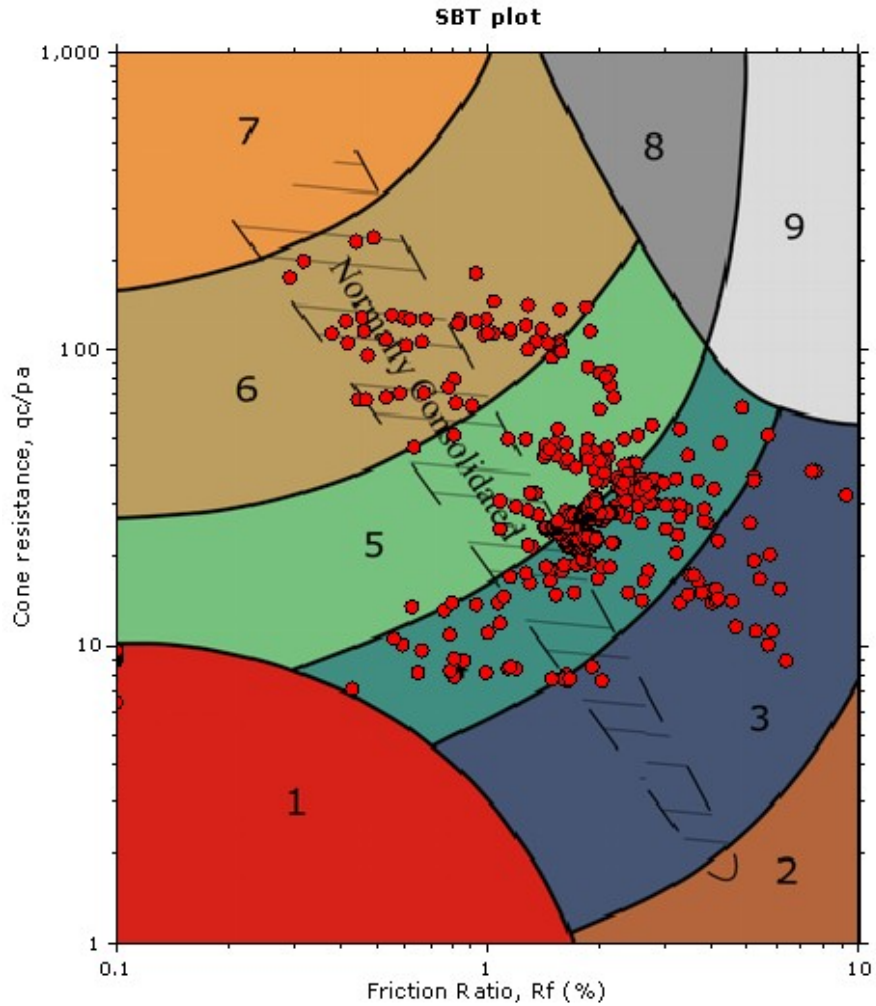
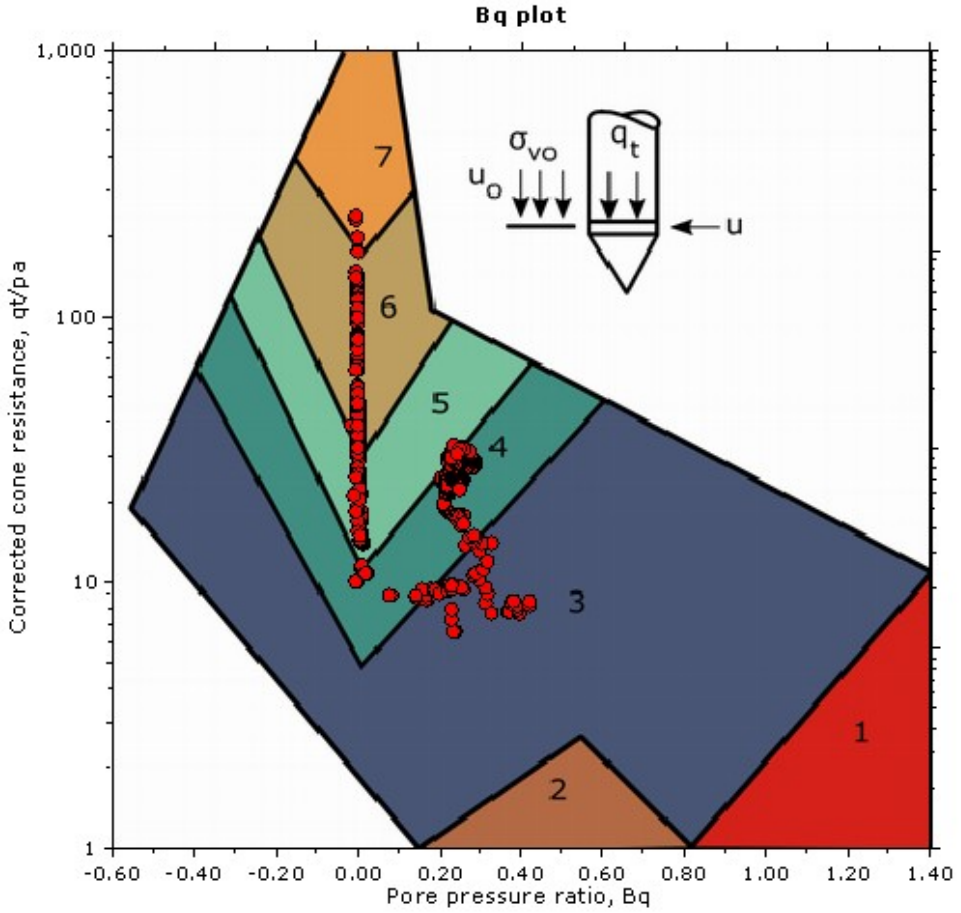
Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**

CPT: CPTU3
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

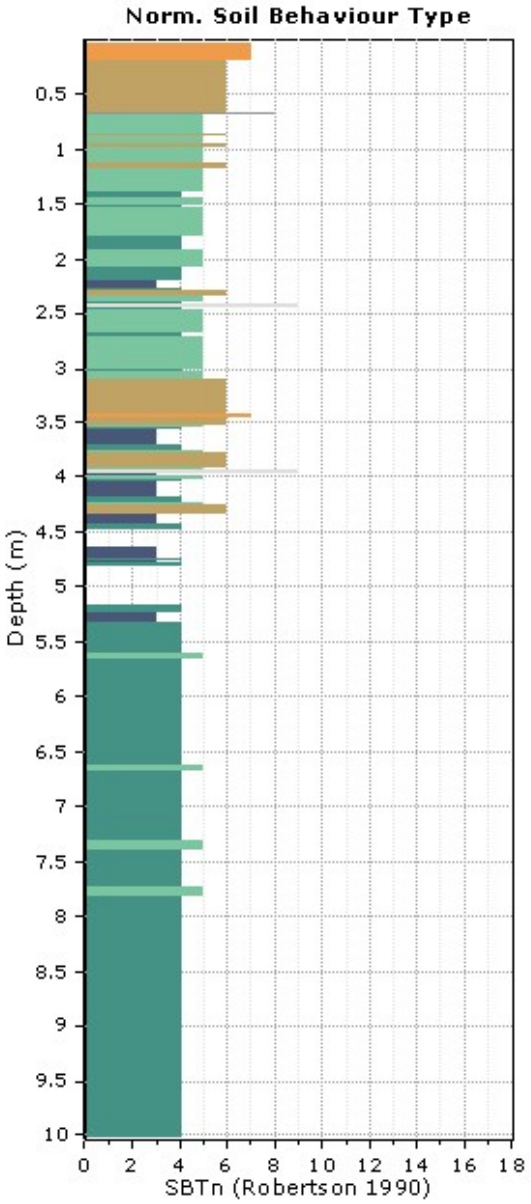
SBT - Bq plots

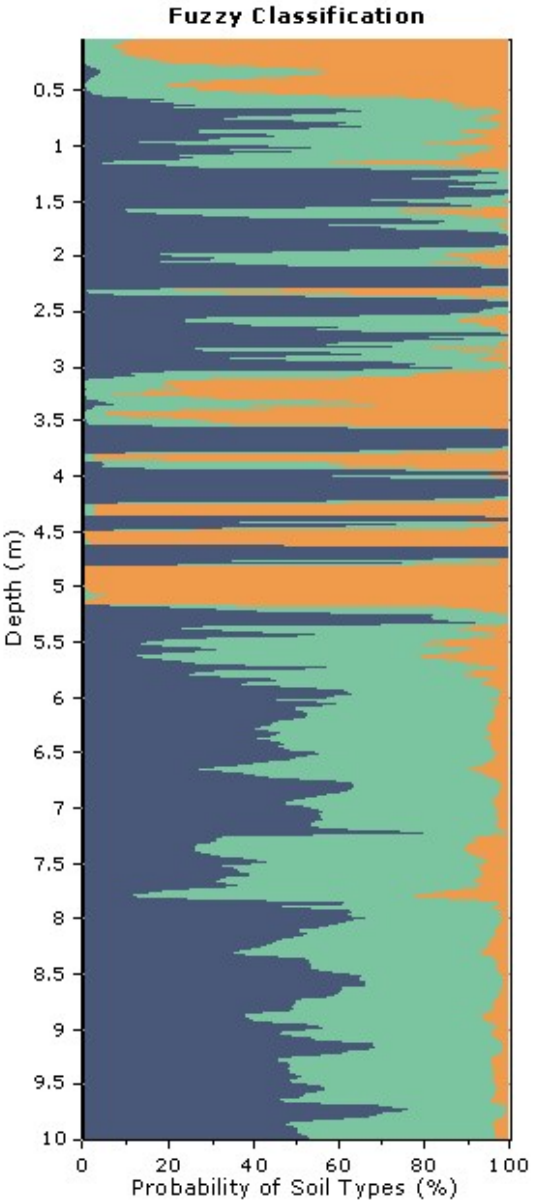




SBT legend

1. Sensitive fine grained	4. Clayey silt to silty clay	7. Gravelly sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to clayey sand
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained


Norm. Soil Behaviour Type
Depth (m)
SBTn (Robertson 1990)


Fuzzy Classification
Depth (m)
Probability of Soil Types (%)

GEOTEA SRL
VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
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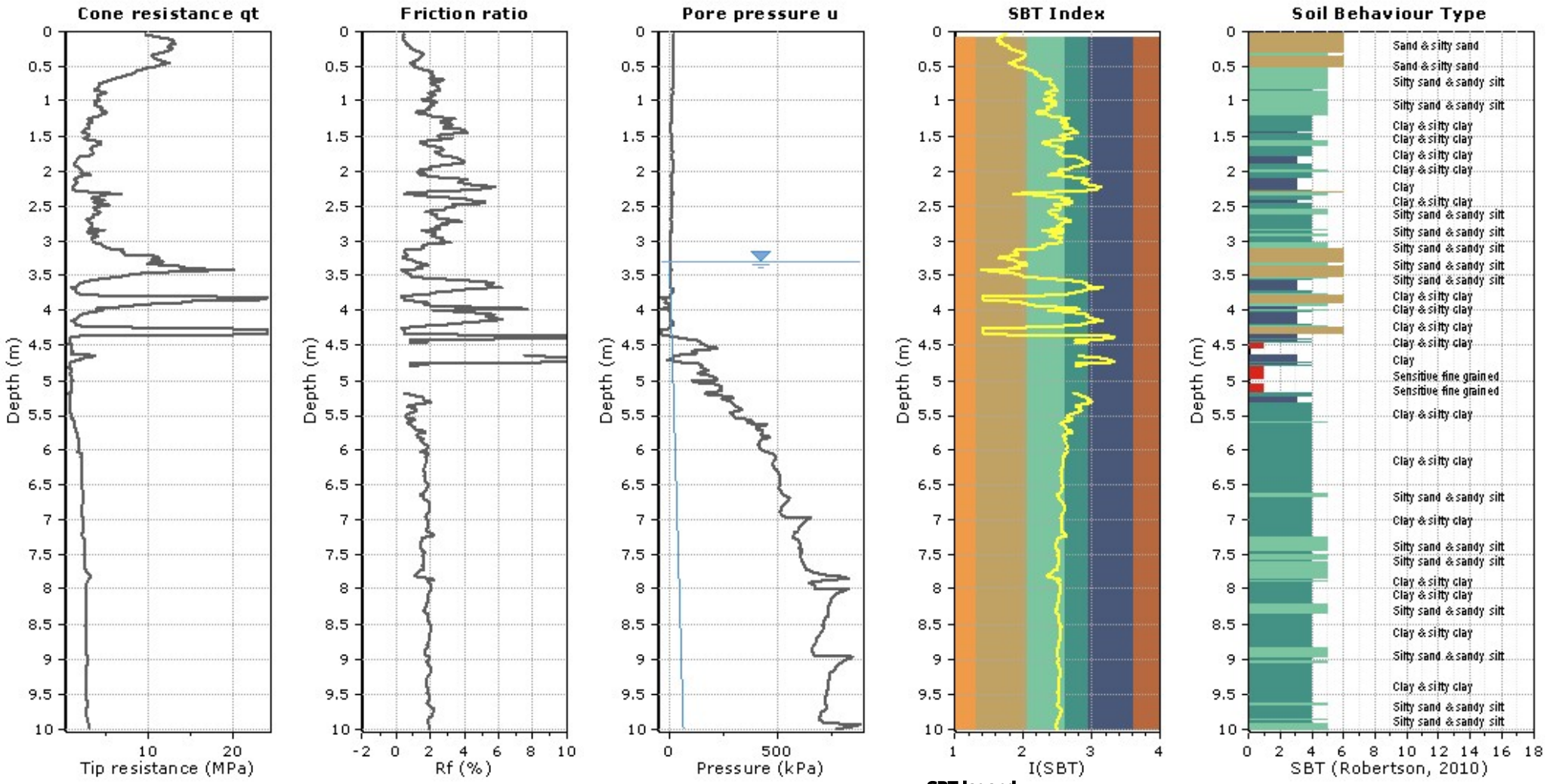
CPT: CPTU3
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



GEOTEA SRL
VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
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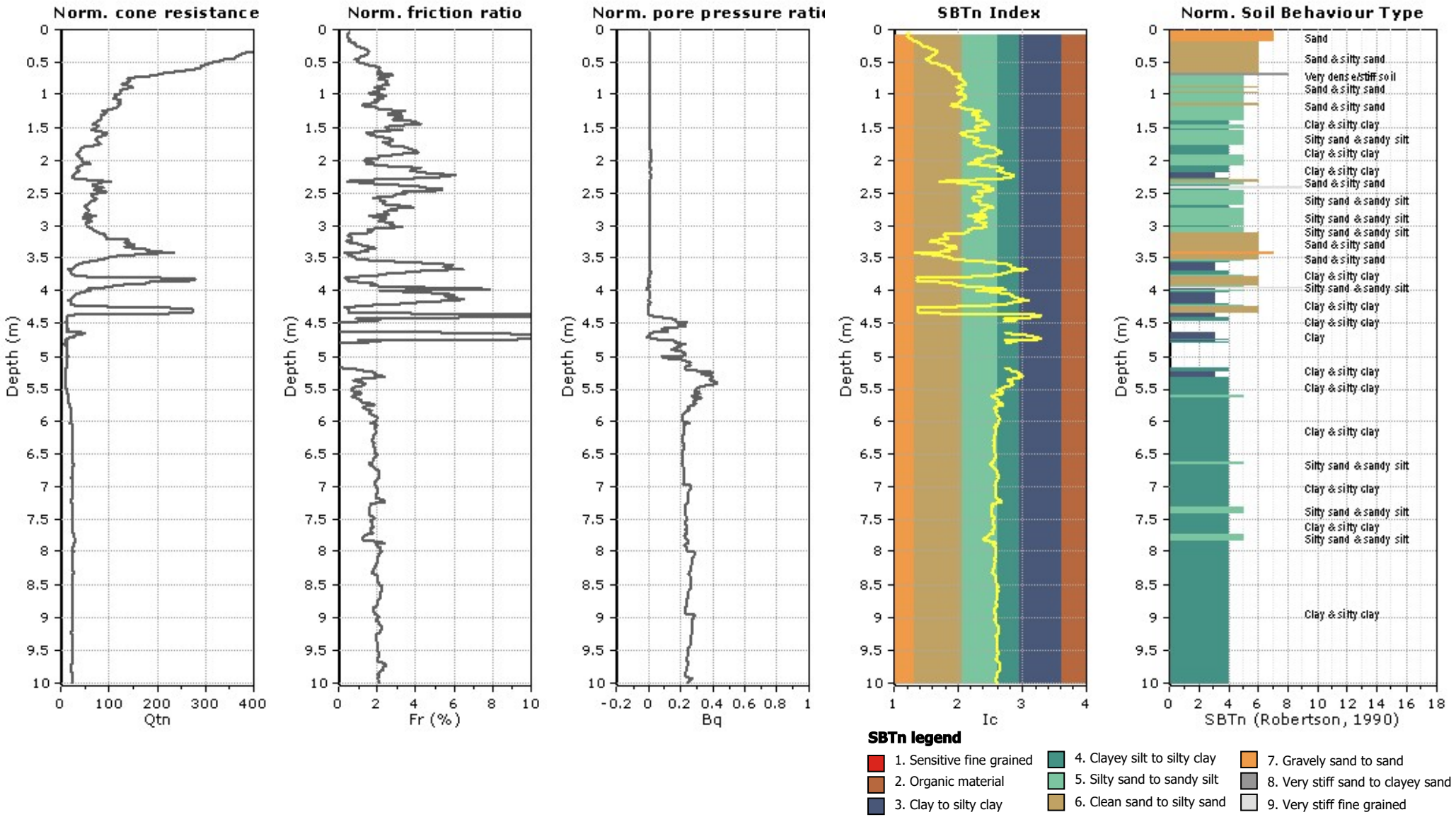
Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**

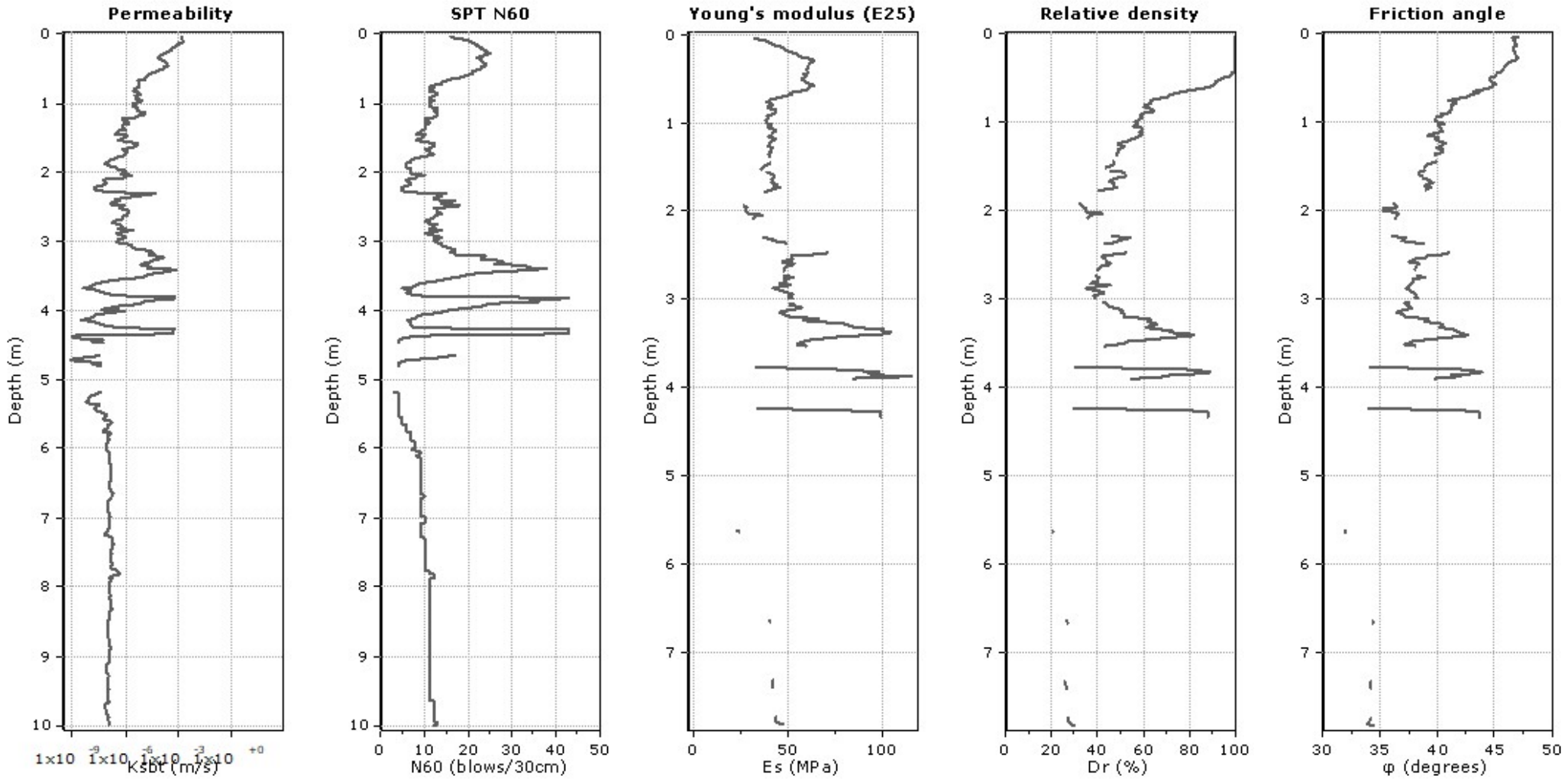
CPT: CPTU3
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown



GEOTEA SRL
VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
www.geoteasrl.it

CPT: CPTU3
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



Calculation parameters

Permeability: Based on SBT_n
SPT N_{60}: Based on I_c and q_t
Young's modulus: Based on variable alpha using I_c (Robertson, 2009)
Relative density constant, C_{Dr}: 350.0
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User defined estimation data

GEOTEA SRL
VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
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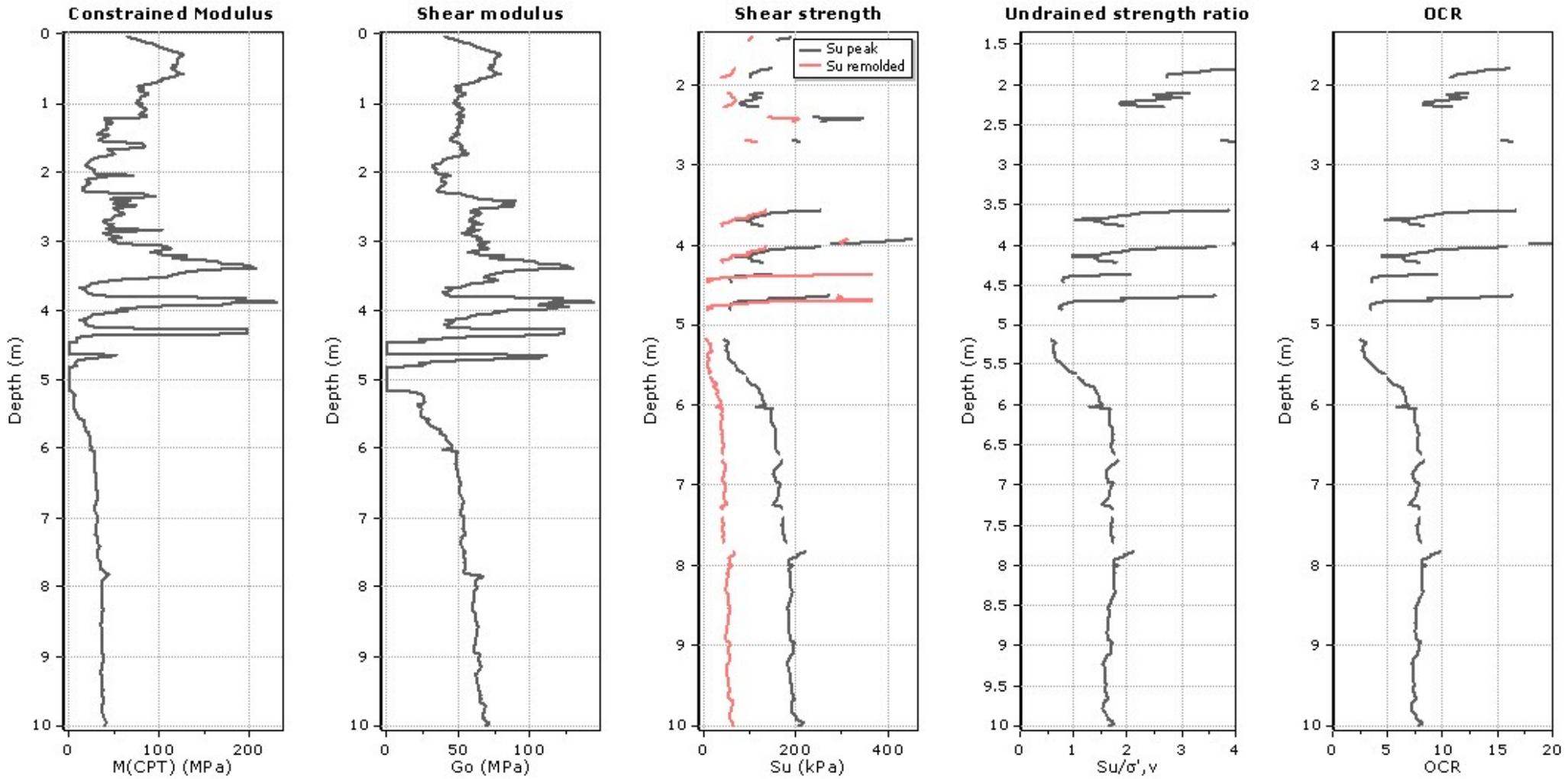
CPT: CPTU3
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



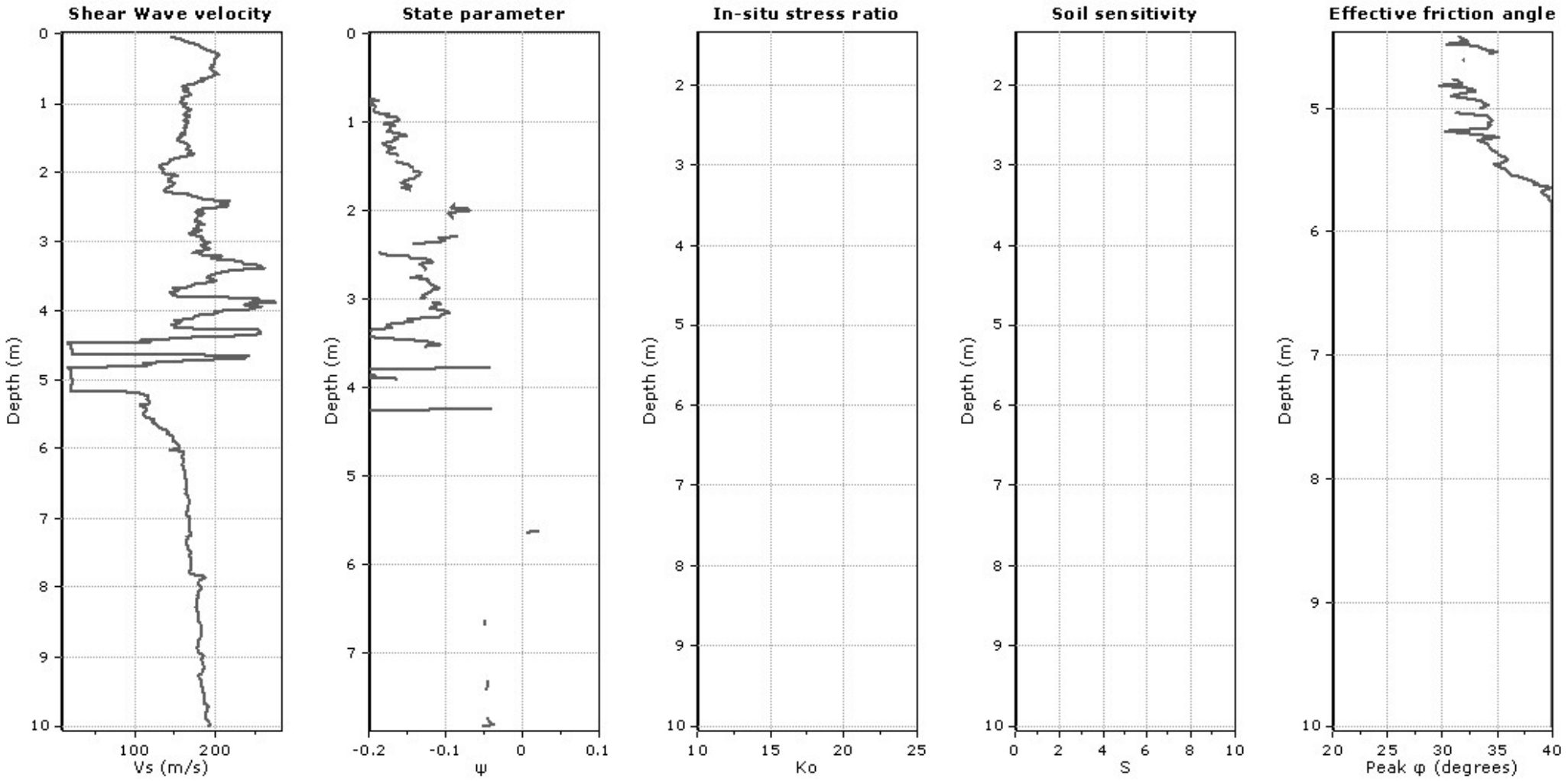
Calculation parameters

Constrained modulus: Based on variable *alpha* using I_c and Q_{tn} (Robertson, 2009)
Go: Based on variable *alpha* using I_c (Robertson, 2009)
Undrained shear strength cone factor for clays, N_{kt}: 14
OCR factor for clays, N_{kt}: 0.33
User defined estimation data
Flat Dilatometer Test data

GEOTEA SRL
VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
www.geoteasrl.it

CPT: CPTU3
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



Calculation parameters

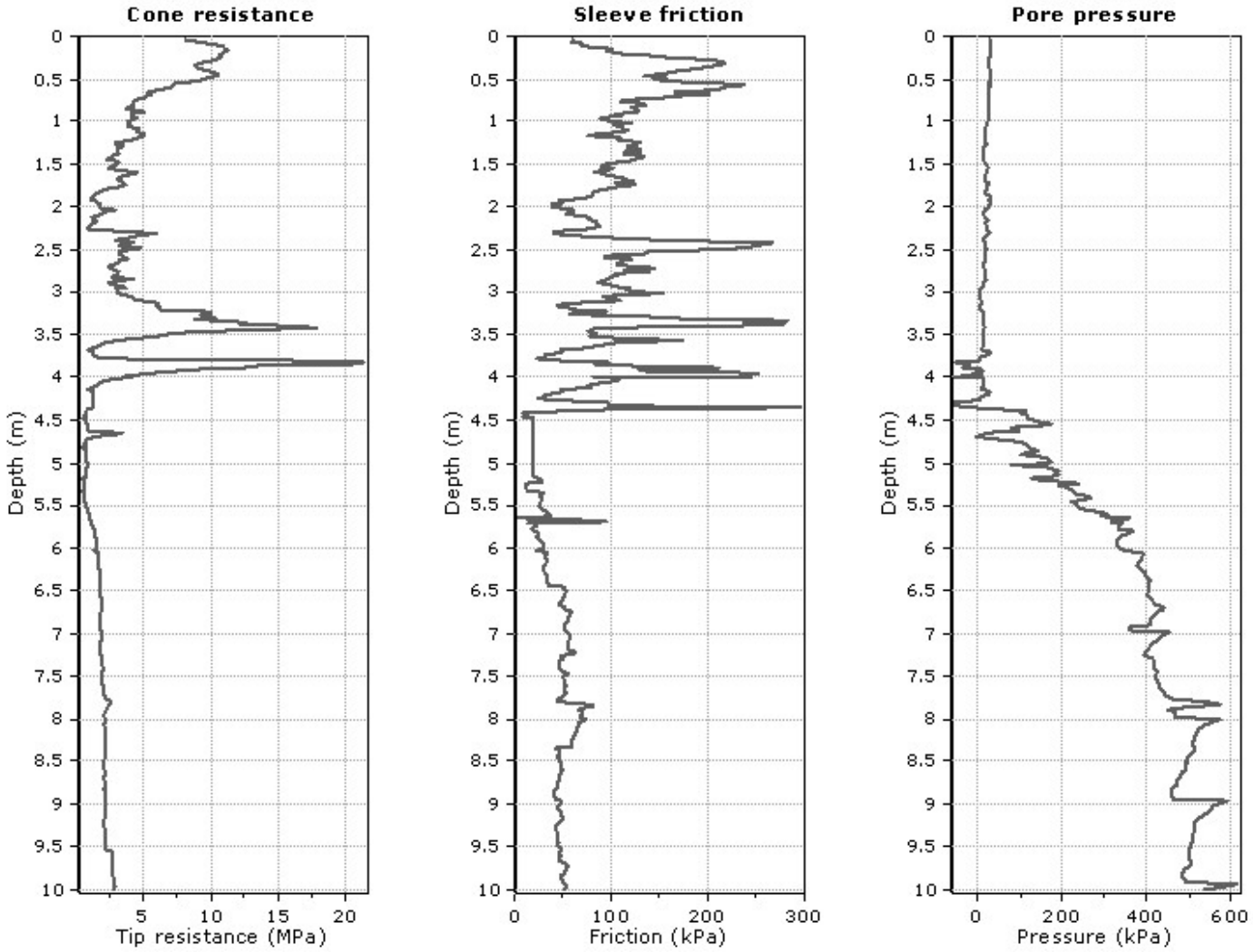
Soil Sensitivity factor, N_S: 350.00

User defined estimation data

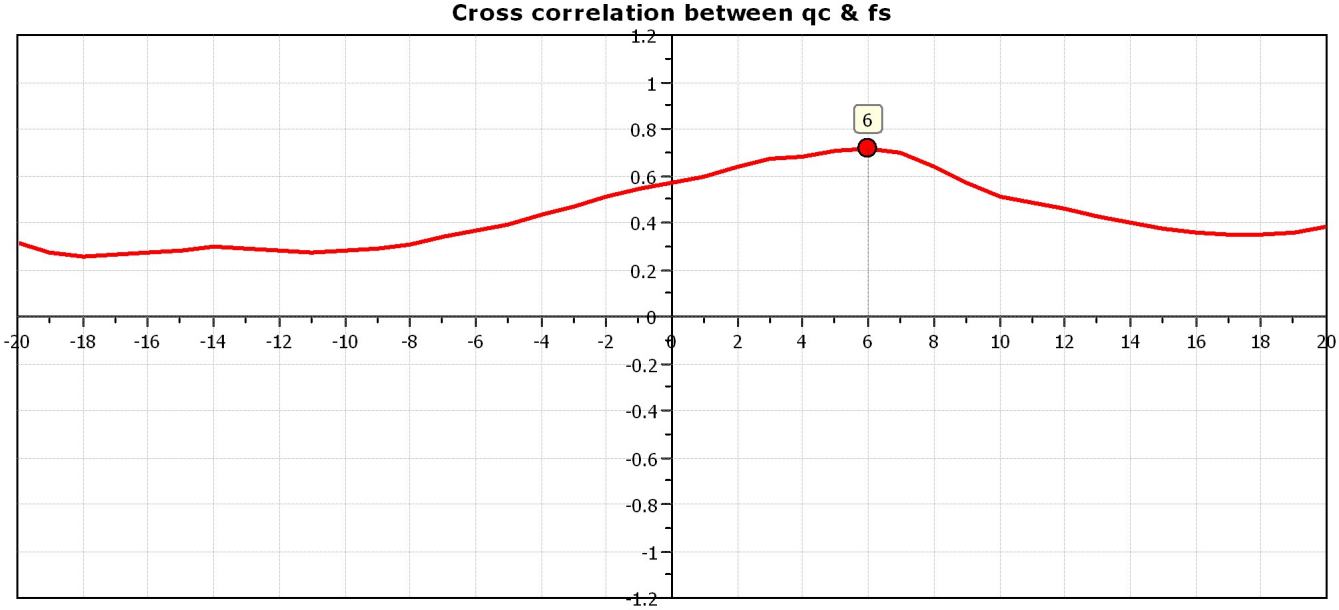
GEOTEA SRL
VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
www.geoteasrl.it

CPT: CPTU4
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

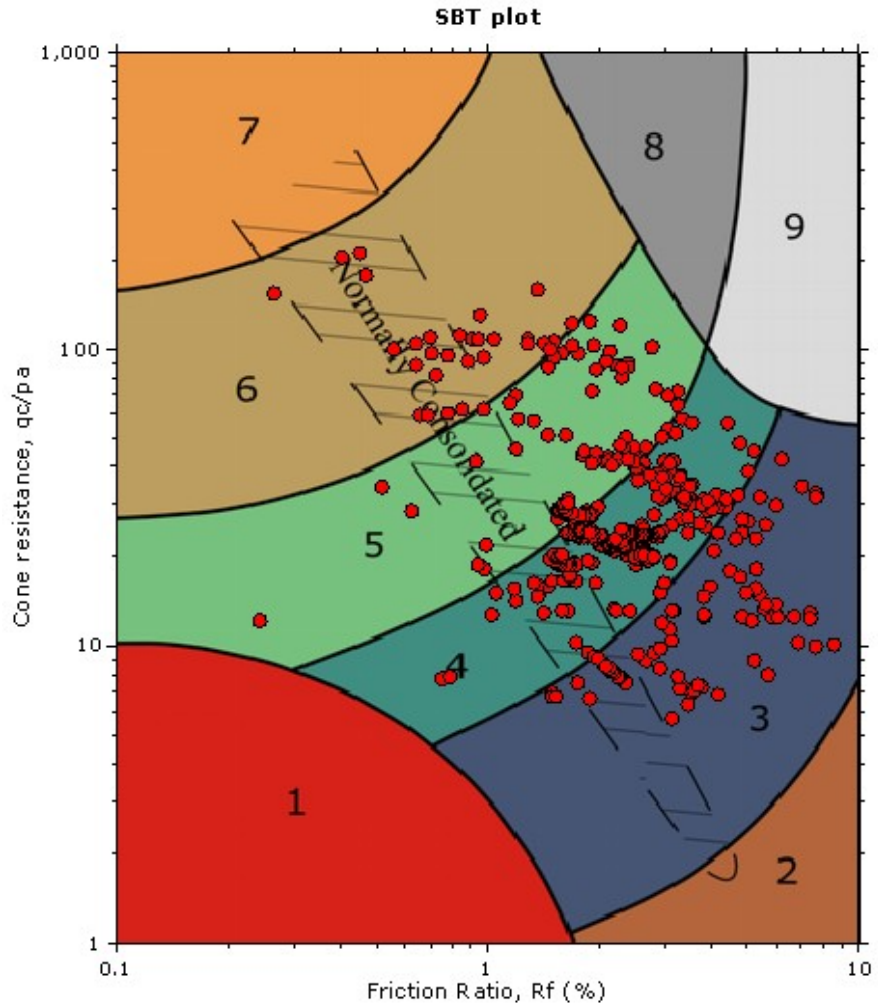
Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**

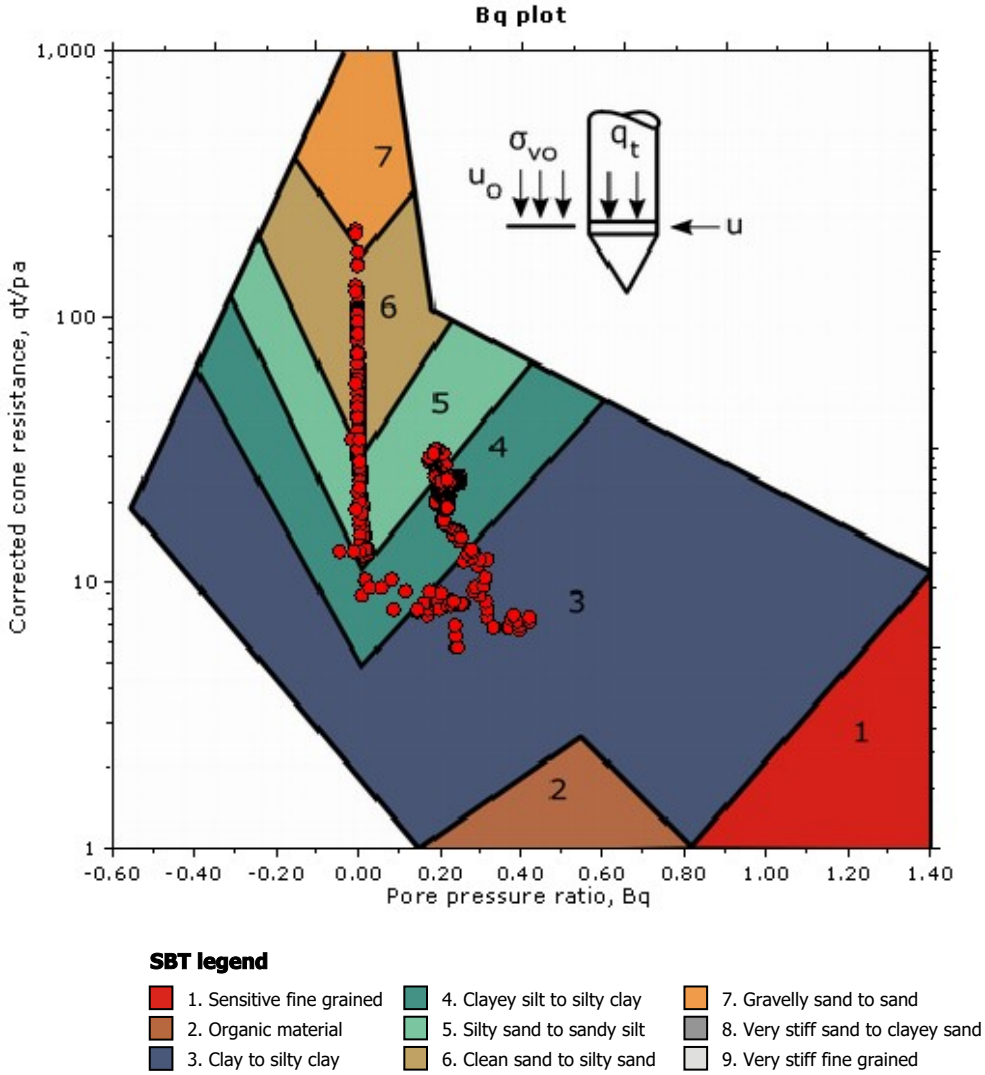


The plot below presents the cross correlation coeficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two sucessive CPT measurements).



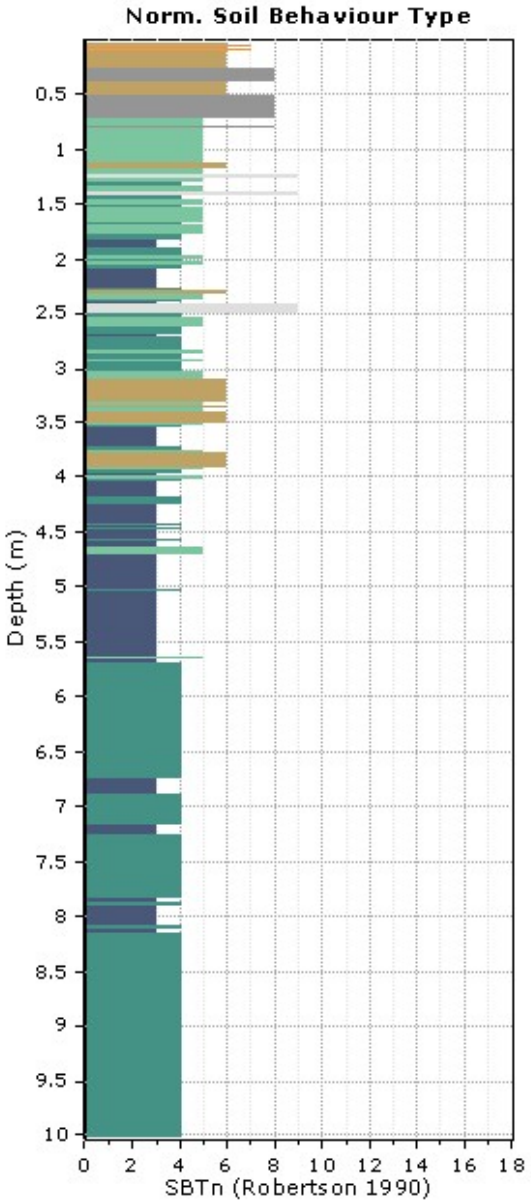
SBT - Bq plots

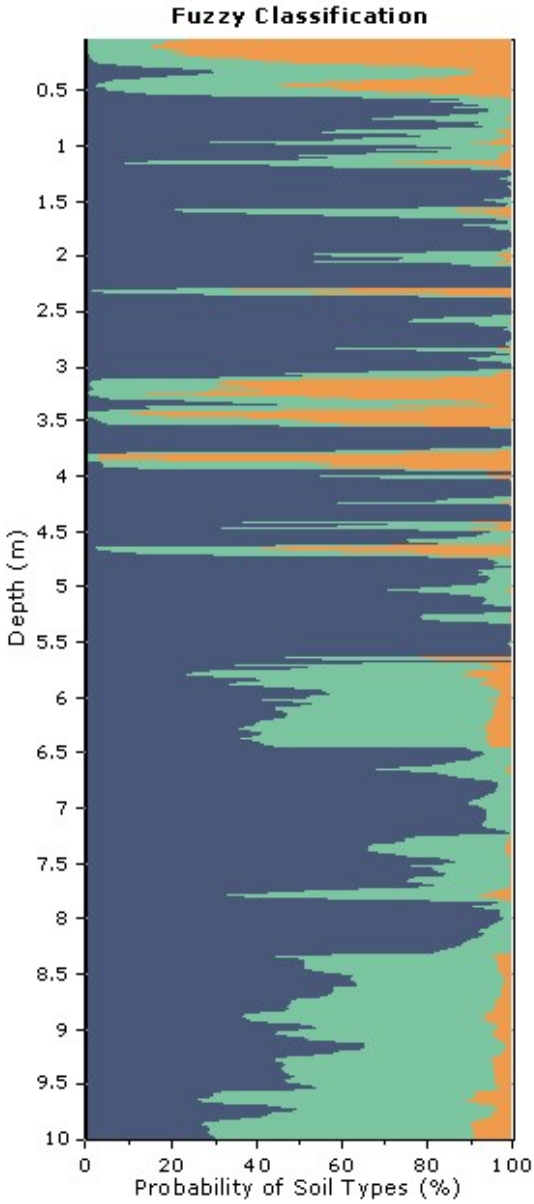




SBT legend

1. Sensitive fine grained	4. Clayey silt to silty clay	7. Gravelly sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to clayey sand
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained


Norm. Soil Behaviour Type
Depth (m)
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
6
6.5
7
7.5
8
8.5
9
9.5
10
0
2
4
6
8
10
12
14
16
18
SBTn (Robertson 1990)


Fuzzy Classification
Depth (m)
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
6
6.5
7
7.5
8
8.5
9
9.5
10
0
20
40
60
80
100
Probability of Soil Types (%)

GEOTEA SRL
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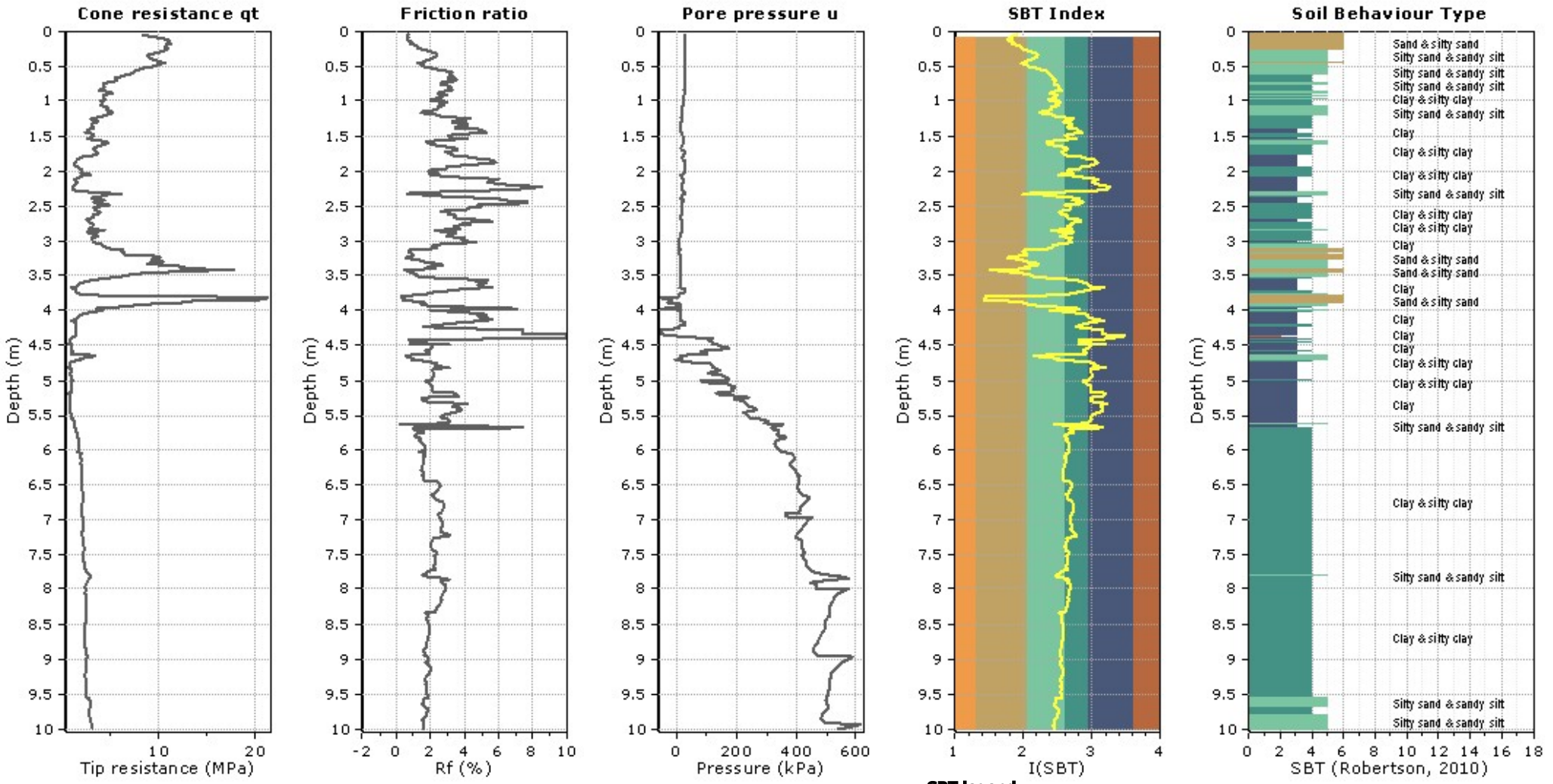
CPT: CPTU4
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



GEOTEA s.r.l.
Geologia Territorio Ambiente
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VIA della TECNICA 57/A4
S. LAZZARO DI SAVENA (BO)
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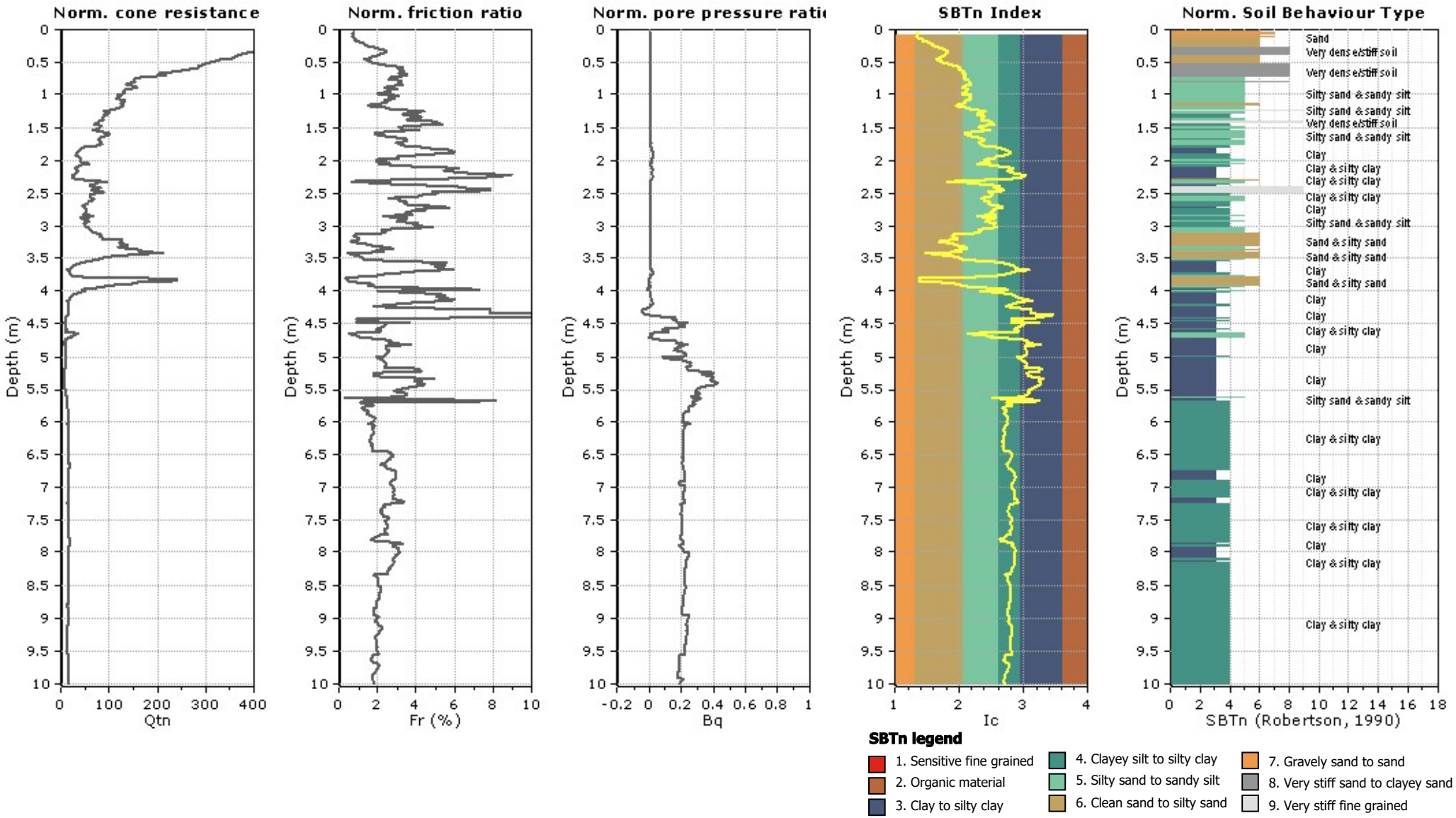
CPT: CPTU4
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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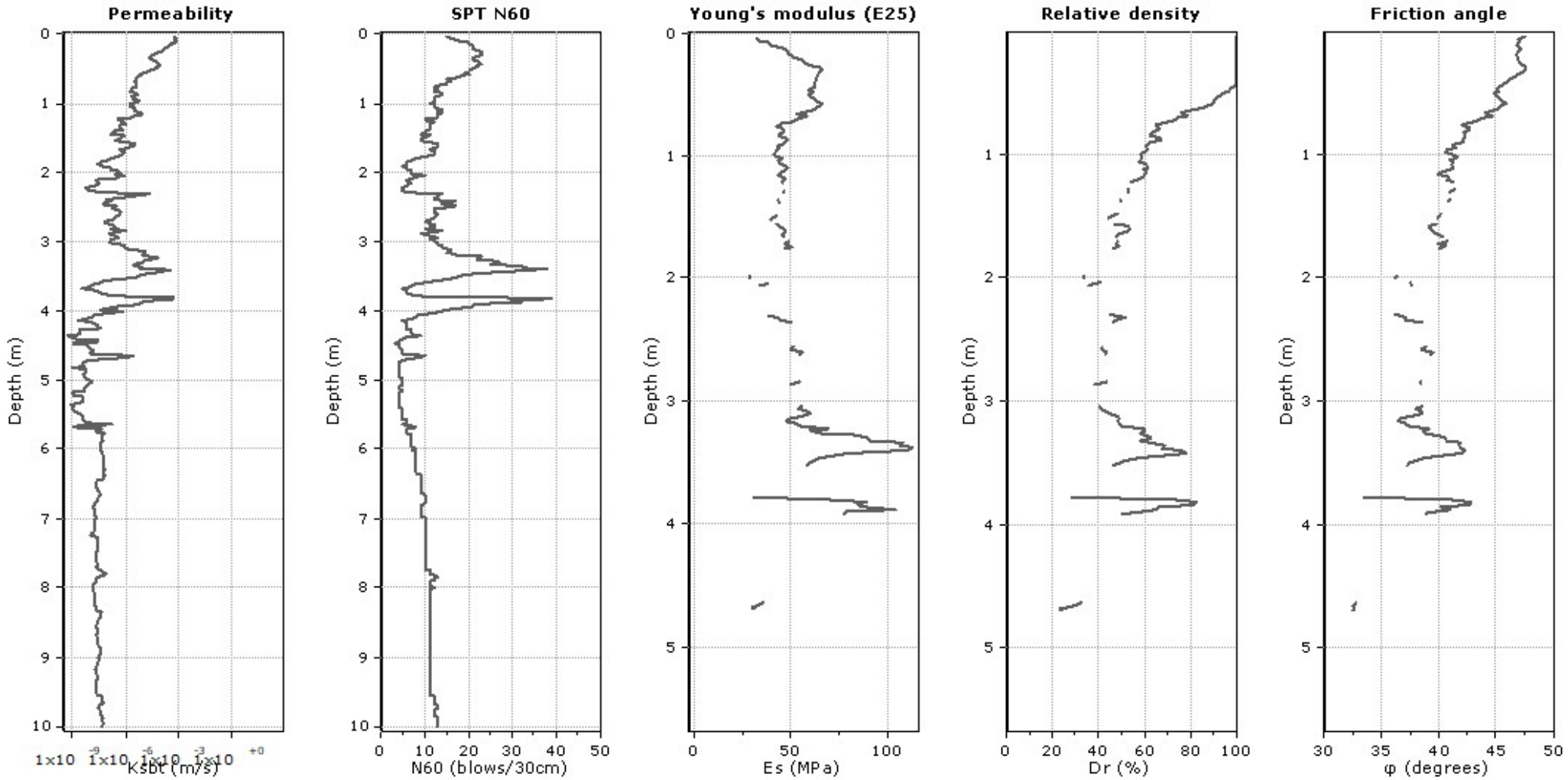
CPT: CPTU4
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



Calculation parameters

Permeability: Based on SBT_n
SPT N_{60}: Based on I_c and q_t
Young's modulus: Based on variable alpha using I_c (Robertson, 2009)
Relative density constant, C_{Dr}: 350.0
Phi: Based on Kulhawy & Mayne (1990)
User defined estimation data

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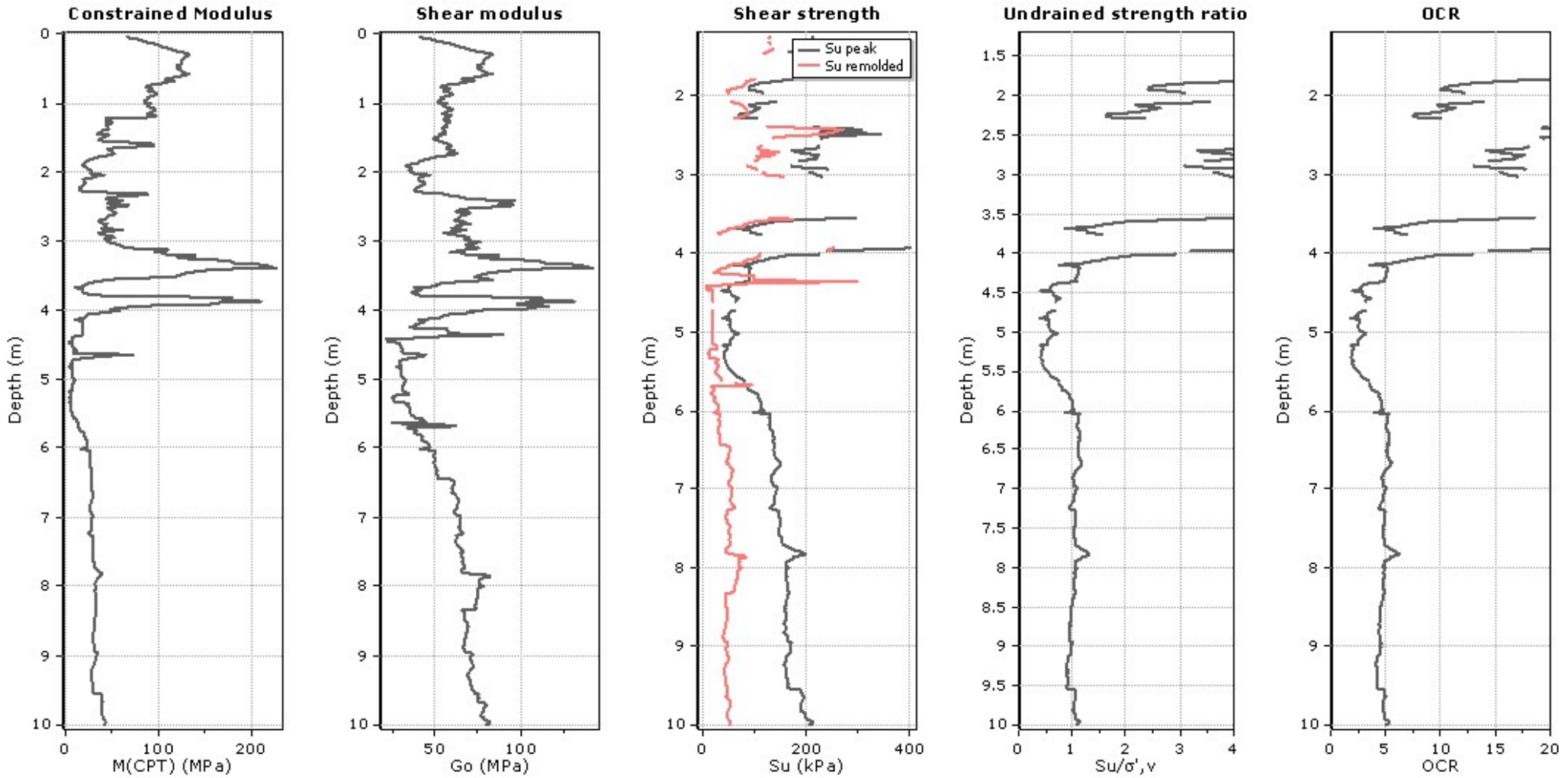
CPT: CPTU4
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



Calculation parameters

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Go: Based on variable *alpha* using I_c (Robertson, 2009)
Undrained shear strength cone factor for clays, N_{kt}: 14
OCR factor for clays, N_{kt}: 0.33
User defined estimation data
Flat Dilatometer Test data

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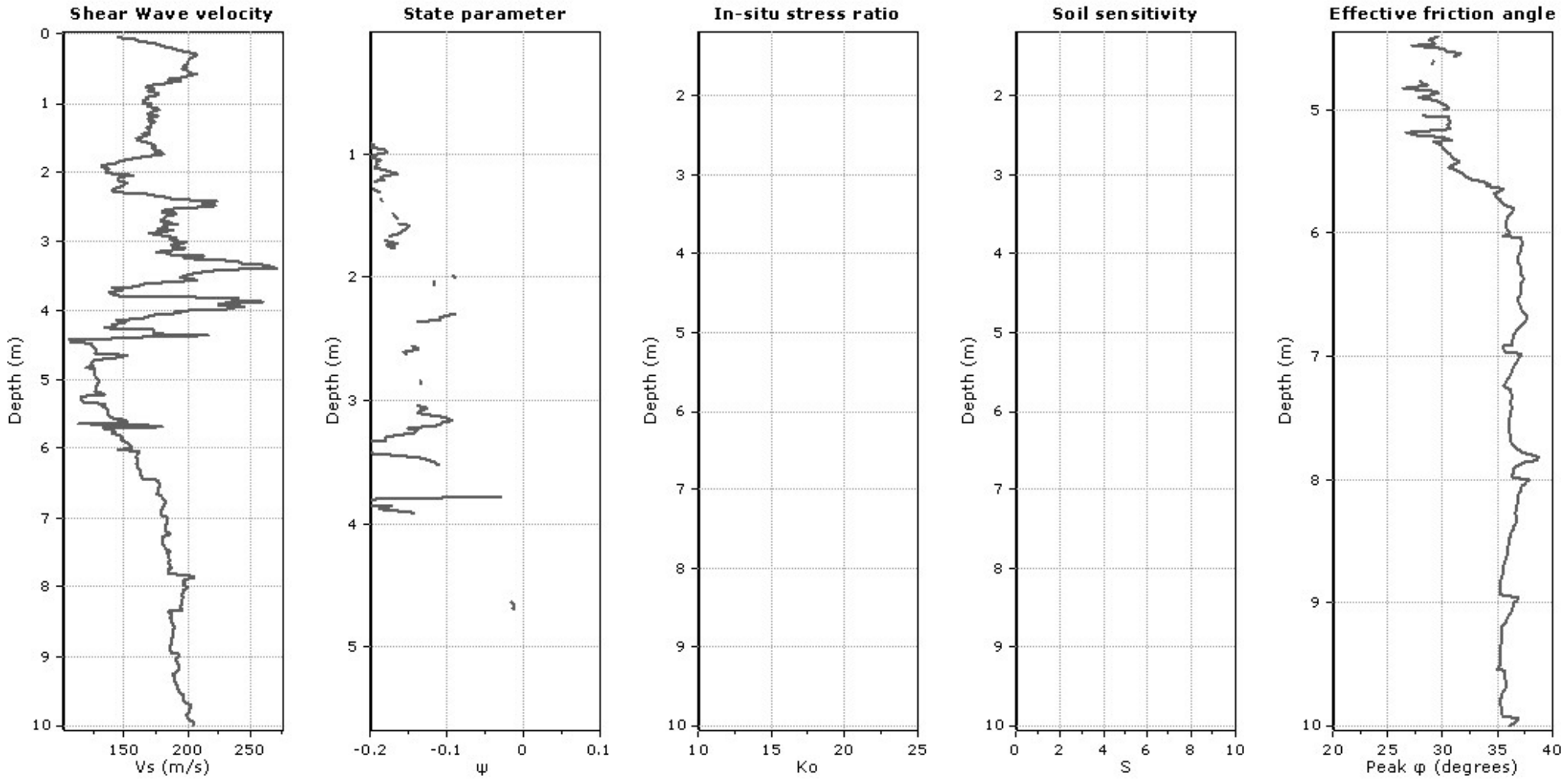
CPT: CPTU4
Total depth: 10.00 m, Date: 02/08/2021
Surface Elevation: 0.00 m
Coords: X:0.00, Y:0.00
Cone Type: Uknown
Cone Operator: Uknown

Project: **21.369 - IBT PROSPEZIONI S.R.L.**
Location: **VICCHIO (FI)**



Calculation parameters

Soil Sensitivity factor, N_S: 350.00

User defined estimation data