E

Site 41 HIGHGATE WEST HILL, LONDON N6

Client DEWRACE MANAGEMENT SERVICES

Date 16/03/09 | Type of Test Falling Head | Level mOD 125.90

Depth of borehole during test, a : 14.00m

Depth to equilibrium watertable, b : 11.00m Measured

Height of casing above ground level, c : 0.00 m

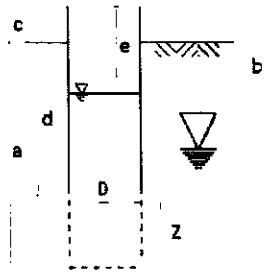
Depth of casing below ground level, d : 1.00 m

Length of response zone, Z : 13.00m

Diameter of response zone, D : 0.15 m

Intake factor, F : 15.8443

(From Condition D of fig. 7 BS5930:1981)




Soil Type at test level

Sandy CLAY/clayey SAND

PERMEABILITY(after Hvorslev 1951)

Basic Time Lag Approach

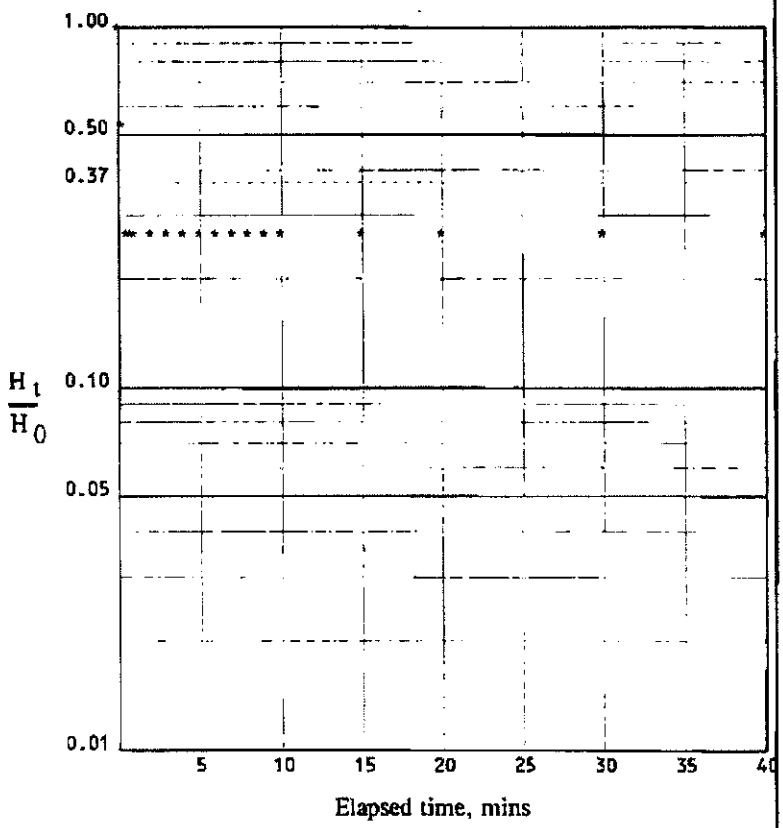
Plot log $\frac{Ht}{Ho}$ v t * *

then

$k = \frac{A}{60FT}$ m/sec

k = 4.65E-05m/sec

| Elapsed time, t mins | Depth to water, e m | Head of water, H m | Ht/Ho |
|---|---|---|---|
| 0.00 | 10.85 | 0.15 | 1.000 |
| 0.25 | 10.92 | 0.08 | 0.533 |
| 0.50 | 10.96 | 0.04 | 0.267 |
| 0.75 | 10.96 | 0.04 | 0.267 |
| 1.00 | 10.96 | 0.04 | 0.267 |
| 2.00 | 10.96 | 0.04 | 0.267 |
| 3.00 | 10.96 | 0.04 | 0.267 |
| 4.00 | 10.96 | 0.04 | 0.267 |
| 5.00 | 10.96 | 0.04 | 0.267 |
| 6.00 | 10.96 | 0.04 | 0.267 |
| 7.00 | 10.96 | 0.04 | 0.267 |
| 8.00 | 10.96 | 0.04 | 0.267 |
| 9.00 | 10.96 | 0.04 | 0.267 |
| 10.00 | 10.96 | 0.04 | 0.267 |
| 15.00 | 10.96 | 0.04 | 0.267 |
| 20.00 | 10.96 | 0.04 | 0.267 |
| 30.00 | 10.96 | 0.04 | 0.267 |
| 40.00 | 10.96 | 0.04 | 0.267 |




REMARKS:

11681

In-Situ Permeability Test

Bh No BH1

Fig No

Site 41 HIGHGATE WEST HILL, LONDON N6

Client DEWRACE MANAGEMENT SERVICES

Date 16/03/09 | Type of Test Falling Head | Level mOD 125.50

Depth of borehole during test, a : 15.00m

Depth to equilibrium watertable, b : 10.59m Measured

Height of casing above ground level, c : 0.00 m

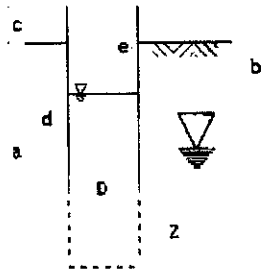
Depth of casing below ground level, d : 1.00 m

Length of response zone, Z : 14.00m

Diameter of response zone, D : 0.15 m

Intake factor, F : 16.8213

(From Condition D of fig. 7 BS5930)1981)




Soil Type at test level

Sandy CLAY/clayey SAND

PERMEABILITY(after Hvorslev 1951)

Basic Time Lag Approach

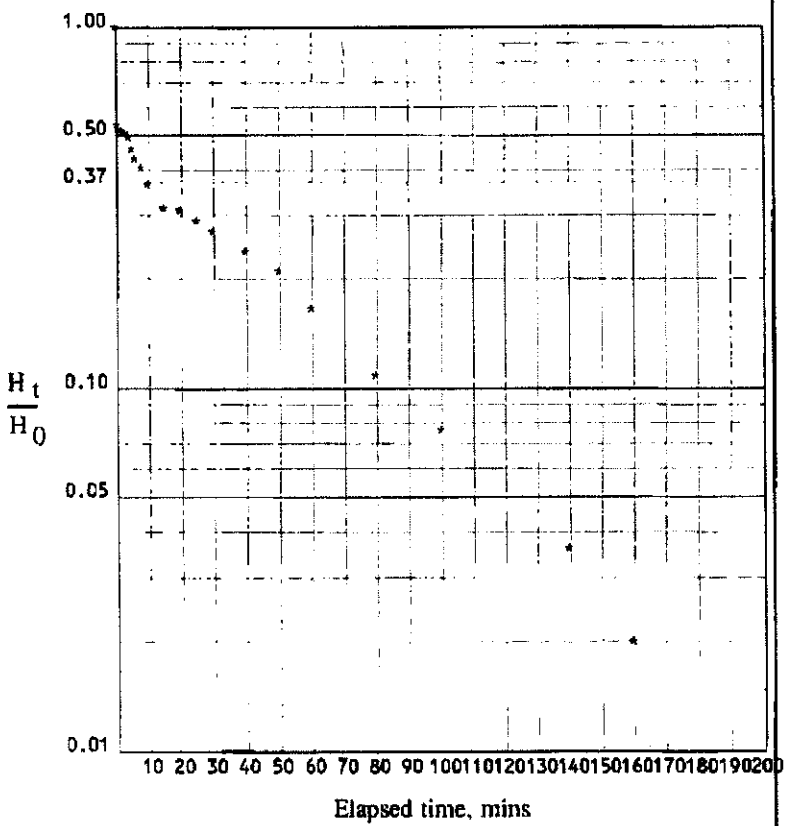
Plot log $\frac{Ht}{Ho}$ v t * . *

then

$$k = \frac{A}{60FT} \text{ m/sec}$$

k = 1.82E-06m/sec

| Elapsed time, t mins | Depth to water, e m | Head of water, H m | Ht/Ho |
|---|---|---|---|
| 0.00 | 8.10 | 2.49 | 1.000 |
| 0.50 | 9.26 | 1.33 | 0.534 |
| 1.00 | 9.30 | 1.29 | 0.518 |
| 2.00 | 9.31 | 1.28 | 0.514 |
| 3.00 | 9.33 | 1.26 | 0.506 |
| 4.00 | 9.36 | 1.23 | 0.494 |
| 5.00 | 9.45 | 1.14 | 0.458 |
| 6.00 | 9.52 | 1.07 | 0.430 |
| 8.00 | 9.58 | 1.01 | 0.406 |
| 10.00 | 9.68 | 0.91 | 0.365 |
| 15.00 | 9.81 | 0.78 | 0.313 |
| 20.00 | 9.82 | 0.77 | 0.309 |
| 25.00 | 9.87 | 0.72 | 0.289 |
| 30.00 | 9.92 | 0.67 | 0.269 |
| 40.00 | 10.00 | 0.59 | 0.237 |
| 50.00 | 10.07 | 0.52 | 0.209 |
| 60.00 | 10.18 | 0.41 | 0.165 |
| 80.00 | 10.32 | 0.27 | 0.108 |
| 100.00 | 10.40 | 0.19 | 0.076 |
| 140.00 | 10.50 | 0.09 | 0.036 |
| 160.00 | 10.54 | 0.05 | 0.020 |
| 180.00 | 10.58 | 0.01 | 0.004 |
| 200.00 | 10.63 | -0.04 | -0.016 |




REMARKS:

11681

In-Situ Permeability Test

Bh No BH2

Fig No

Site 41 HIGHGATE WEST HILL, LONDON N6

Client DEWRACE MANAGEMENT SERVICES

Date 16/03/09 | Type of Test Falling Head | Level mOD 124.50

Depth of borehole during test, a : 14.00 m

Depth to equilibrium watertable, b : 9.36 m Measured

Height of casing above ground level, c : 0.00 m

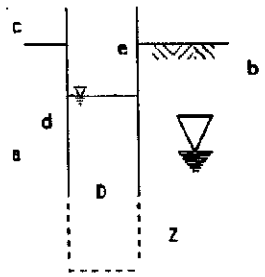
Depth of casing below ground level, d : 1.00 m

Length of response zone, Z : 13.00 m

Diameter of response zone, D : 0.15 m

Intake factor, F : 15.8443

(From Condition D of fig. 7 BS5930:1981)




Soil Type at test level

Sandy CLAY/clayey SAND

PERMEABILITY(after Hvorslev 1951)

Basic Time Lag Approach

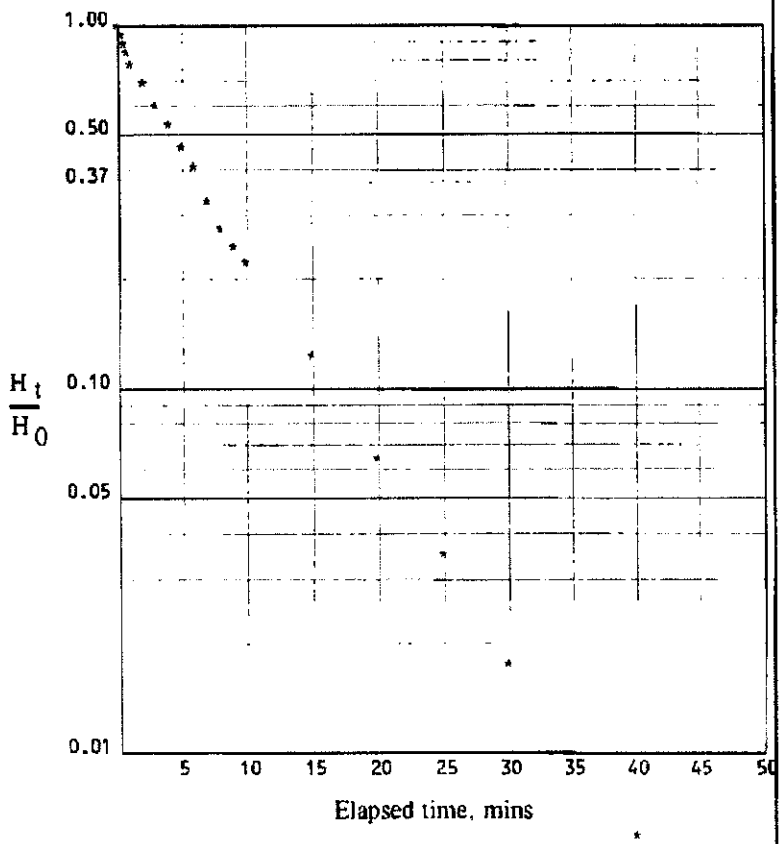
Plot log $\frac{Ht}{Ho}$ v t * *

then

$k = \frac{A}{60FT}$ m/sec

k = 2.86E-06m/sec

| Elapsed time, t mins | Depth to water, e m | Head of water, H m | Ht/Ho |
|---|---|---|---|
| 0.00 | 7.65 | 1.71 | 1.000 |
| 0.25 | 7.75 | 1.61 | 0.942 |
| 0.50 | 7.85 | 1.51 | 0.883 |
| 0.75 | 7.92 | 1.44 | 0.842 |
| 1.00 | 8.03 | 1.33 | 0.778 |
| 2.00 | 8.17 | 1.19 | 0.696 |
| 3.00 | 8.33 | 1.03 | 0.602 |
| 4.00 | 8.45 | 0.91 | 0.532 |
| 5.00 | 8.57 | 0.79 | 0.462 |
| 6.00 | 8.66 | 0.70 | 0.409 |
| 7.00 | 8.80 | 0.56 | 0.327 |
| 8.00 | 8.89 | 0.47 | 0.275 |
| 9.00 | 8.94 | 0.42 | 0.246 |
| 10.00 | 8.98 | 0.38 | 0.222 |
| 15.00 | 9.15 | 0.21 | 0.123 |
| 20.00 | 9.25 | 0.11 | 0.064 |
| 25.00 | 9.30 | 0.06 | 0.035 |
| 30.00 | 9.33 | 0.03 | 0.018 |
| 40.00 | 9.35 | 0.01 | 0.006 |
| 50.00 | 9.36 | 0.00 | 0.000 |




REMARKS:

11681

In-Situ Permeability Test

Bh No BH3

Fig No

# APPENDIX 5

# GEOTECHNICAL LABORATORY TEST RESULTS

# LABORATORY TEST RESULTS

CONTRACT WITANHURST, 41 HIGHGATE WEST HILL, LONDON N6

| Bore-hole | Sample | Depth m | Classification | | | | Density | | Triaxial Compression | | | | | Sulphates ($SO_4$) | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Liquid Limit % | Plastic Limit % | Plasticity Index % | Moisture Content % | Bulk $Mg/m^3$ | Dry $Mg/m^3$ | Type | Principal Stress Difference kPa | Cell Pressure kPa | Shear Strength kPa | Angle of Shear Resistance degrees | Soil: Total % Dry Wt. | Soil: Aqueous Extract mg/l | Water mg/l | pH | |
| BH1 | B1 | 0.50 - 1.10 | | | | | | | | | | | | | 156 | | 6.9 | |
| | U1 | 3.00 - 3.50 | 42 | 19 | 23 | 27 | | | | | | | | | | | | SOIL CLASSIFICATION = CI<br>1% retained on 425μm sieve |
| | U2 | 5.00 - 5.30 | 41 | 22 | 19 | 20 | | | | | | | | | | | | SOIL CLASSIFICATION = CI<br>1% retained on 425μm sieve |
| | B7 | 8.90 - 9.40 | 34 | 26 | 8 | 32 | | | | | | | | | | | | SOIL CLASSIFICATION = ML<br>0% retained on 425μm sieve |
| | W1 | 9.00 | | | | | | | | | | | | | | 82 | 8.2 | |
| | U3 | 15.00 - 15.50 | 43 | 20 | 23 | 31 | | | | | | | | | | | | SOIL CLASSIFICATION = CI<br>0% retained on 425μm sieve |
| | W2 | 15.50 | | | | | | | | | | | | | | 140 | 8.2 | |
| | U4 | 16.60 - 17.10 | 63 | 27 | 36 | 32 | | | | | | | | | | | | SOIL CLASSIFICATION = CH<br>0% retained on 425μm sieve |
| BH2 | B1 | 0.60 - 1.10 | | | | | | | | | | | | | 49 | | 7.6 | |

U - UNDISTURBED SAMPLE
D - DISTURBED SAMPLE
B - BULK SAMPLE
W - WATER SAMPLE

C.U. - CONSOLIDATED UNDRAINED
C.D. - CONSOLIDATED DRAINED
Q. - IMMEDIATE UNDRAINED
Q.M. - IMMEDIATE UNDRAINED MULTISTAGE

Aqueous Extract 2:1 Water:Soil

11681

GROUND ENGINEERING PETERBOROUGH

# LABORATORY TEST RESULTS

CONTRACT WITANHURST, 41 HIGHGATE WEST HILL, LONDON N6

| Borehole | Sample | Depth m | Classification | | | | Density | | Triaxial Compression | | | | | Sulphates ($SO_4$) | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Liquid Limit % | Plastic Limit % | Plasticity Index % | Moisture Content % | Bulk $Mg/m^3$ | Dry $Mg/m^3$ | Type | Principal Stress Difference kPa | Cell Pressure kPa | Shear Strength kPa | Angle of Shear Resistance degrees | Soil: Total % Dry Wt | Soil: Aqueous Extract mg/l | Water mg/l | pH | |
| BH2 | U1 | 4.00 - 4.40 | 40 | 19 | 21 | 24 | | | | | | | | | | | | SOIL CLASSIFICATION = CI<br>0% retained on 425μm sieve |
| | B8 | 9.00 - 9.50 | 36 | 26 | 10 | 39 | | | | | | | | | | | | SOIL CLASSIFICATION = MI<br>0% retained on 425μm sieve |
| | W1 | 9.90 | | | | | | | | | | | | | | 123 | 8.1 | |
| | B10 | 12.70 - 13.20 | 35 | 25 | 10 | 35 | | | | | | | | | | | | SOIL CLASSIFICATION = ML/MI<br>0% retained on 425μm sieve |
| BH3 | B2 | 0.70 - 1.20 | | | | | | | | | | | | | 91 | | 7.7 | |
| | U1 | 2.90 - 3.35 | 39 | 19 | 20 | 24 | | | | | | | | | | | | SOIL CLASSIFICATION = CI<br>0% retained on 425μm sieve |
| | U2 | 5.00 - 5.45 | 34 | 27 | 7 | 13 | | | | | | | | | | | | SOIL CLASSIFICATION = ML<br>0% retained on 425μm sieve |
| | B8 | 7.50 - 8.00 | 43 | 23 | 20 | 38 | | | | | | | | | | | | SOIL CLASSIFICATION = CI<br>0% retained on 425μm sieve |

U - UNDISTURBED SAMPLE
D - DISTURBED SAMPLE
B - BULK SAMPLE
W - WATER SAMPLE

C.U. - CONSOLIDATED UNDRAINED
C.D. - CONSOLIDATED DRAINED
Q. - IMMEDIATE UNDRAINED
Q.M. - IMMEDIATE UNDRAINED MULTISTAGE

Aqueous Extract 2:1 Water:Soil

11681

GROUND ENGINEERING PETERBOROUGH

# LABORATORY TEST RESULTS

CONTRACT WITANHURST, 41 HIGHGATE WEST HILL, LONDON N6

| Bore-hole | Sample | Depth m | Classification | | | | Density | | Triaxial Compression | | | | | Sulphates ($SO_4$) | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Liquid Limit % | Plastic Limit % | Plasticity Index % | Moisture Content % | Bulk $Mg/m^3$ | Dry $Mg/m^3$ | Type | Principal Stress Difference kPa | Cell Pressure kPa | Shear Strength kPa | Angle of Shear Resistance degrees | Soil: Total % Dry Wt. | Soil: Aqueous Extract mg/l | Water mg/l | pH | |
| BH3 | B12 | 13.90 - 14.40 | 57 | 21 | 36 | 30 | | | | | | | | | | | | SOIL CLASSIFICATION = CH<br>0% retained on 425µm sieve |
| | U3 | 16.50 - 16.95 | 64 | 26 | 38 | 27 | | | | | | | | | | | | SOIL CLASSIFICATION = CH<br>0% retained on 425µm sieve |
| | U4 | 18.00 - 18.45 | 67 | 25 | 42 | 30 | | | | | | | | | | | | SOIL CLASSIFICATION = CH<br>0% retained on 425µm sieve |

U - UNDISTURBED SAMPLE
D - DISTURBED SAMPLE
B - BULK SAMPLE
W - WATER SAMPLE

C.U. - CONSOLIDATED UNDRAINED
C.D. - CONSOLIDATED DRAINED
Q. - IMMEDIATE UNDRAINED
Q.M. - IMMEDIATE UNDRAINED MULTISTAGE

Aqueous Extract 2:1 Water:Soil

11681

GROUND ENGINEERING PETERBOROUGH

# LABORATORY TEST RESULTS

CONTRACT WITANHURST, 41 HIGHGATE WEST HILL, LONDON N6

| Trial-pit | Sample | Depth m | Classification | | | | Density | | Triaxial Compression | | | | | Sulphates ($SO_4$) | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Liquid Limit % | Plastic Limit % | Plasticity Index % | Moisture Content % | Bulk $Mg/m^3$ | Dry $Mg/m^3$ | Type | Principal Stress Difference kPa | Cell Pressure kPa | Shear Strength kPa | Angle of Shear Resistance degrees | Soil: Total % Dry Wt. | Soil: Aqueous Extract mg/l | Water mg/l | pH | |
| TP1 | B6 | 3.00 | 52 | 23 | 29 | 22 | | | | | | | | | | | | SOIL CLASSIFICATION = CH<br>17% retained on 425μm sieve |
| TP2 | B6 | 3.00 | 33 | 23 | 10 | 26 | | | | | | | | | | | | SOIL CLASSIFICATION = CL<br>8% retained on 425μm sieve |
| TP3 | B6 | 3.00 | 42 | 22 | 20 | 24 | | | | | | | | | | | | SOIL CLASSIFICATION = CI<br>28% retained on 425μm sieve |

U - UNDISTURBED SAMPLE
D - DISTURBED SAMPLE
B - BULK SAMPLE
W - WATER SAMPLE

C.U. - CONSOLIDATED UNDRAINED
C.D. - CONSOLIDATED DRAINED
Q. - IMMEDIATE UNDRAINED
Q.M. - IMMEDIATE UNDRAINED MULTISTAGE

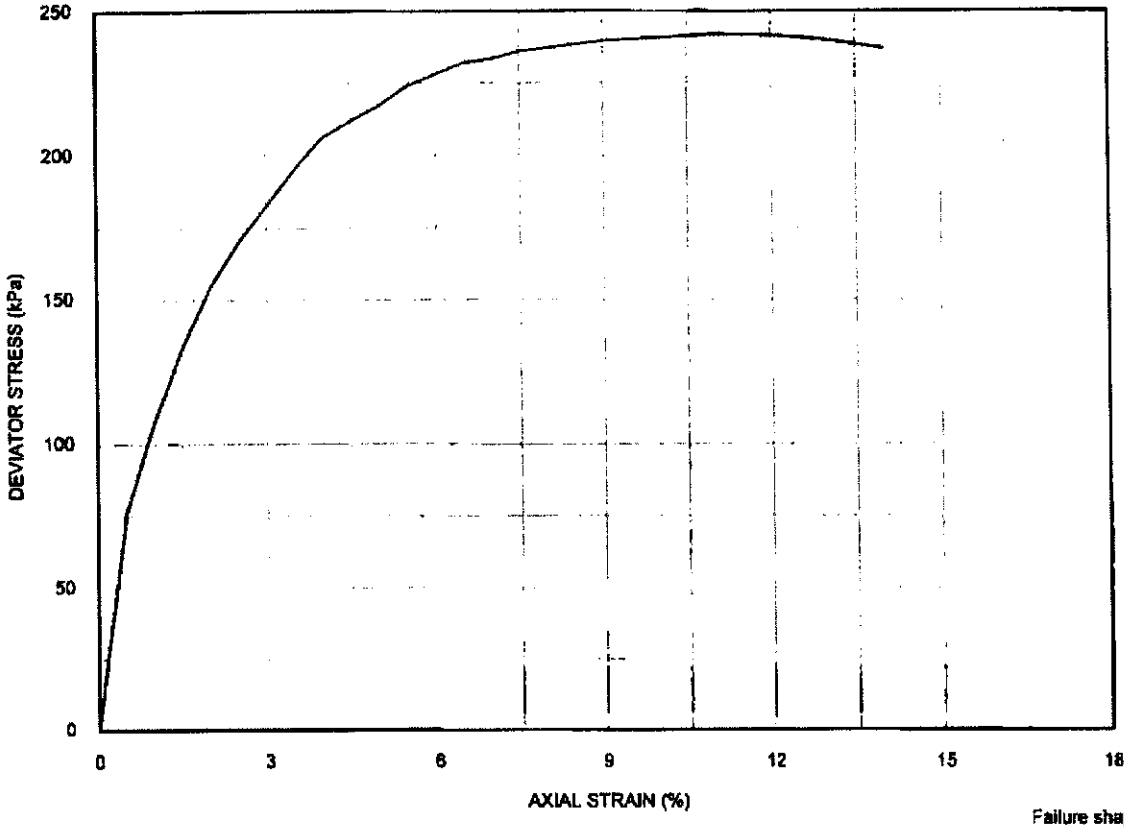
Aqueous Extract 2:1 Water:Soil

11681

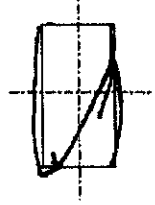
GROUND ENGINEERING PETERBOROUGH

**GROUND ENGINEERING**
**HIGHGATE**

Drawn by: MJR Date: 15/04/2009




Failure shape



| Failure Conditions | | | |
|---|---|---|---|
| Cell pressure | (kPa) | : | 730 |
| Membrane correction | (kPa) | : | 1 |
| Corrected deviator stress | (kPa) | : | 242 |
| Strain at failure | (%) | : | 11.0 |
| Undrained shear strength | (kPa) | : | 121 |

Checked by: MR Date : 16/04/09
Approved by: HS Date : 16/04/09

| Initial Conditions | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample length | : | 202.0 | mm | Bulk density | : 1.93 | $Mg/m^3$ | Borehole : BH1 |
| Sample diameter | : | 103.0 | mm | Dry density | : 1.56 | $Mg/m^3$ | Sample : U5 |
| Membrane thickness | : | 0.3 | mm | Moisture content | : 24 | % | Depth (m) : 18.30 |
| Rate of strain | : | 2.0 | %/min | | | | |
| Stiff brown grey CLAY with silt | | | | | | | |

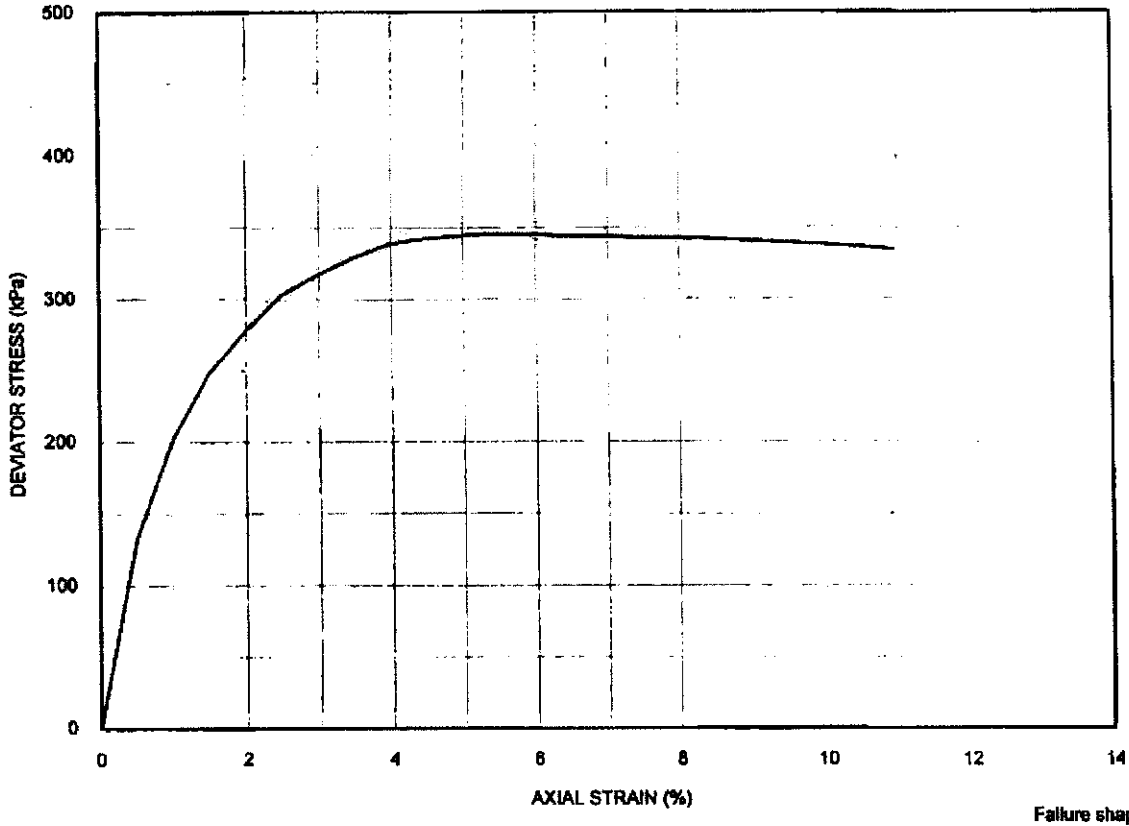
**UNCONSOLIDATED UNDRAINED**
**TRIAXIAL COMPRESSION TEST**

S·G·C
Surrey Geotechnical Consultants Limited

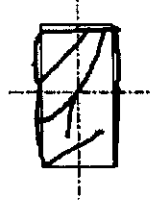
Certificate No: 20921005

**GROUND ENGINEERING**
**HIGHGATE**

Drawn by: MR Date: 15/04/2009




Failure shape



| Failure Conditions | | | |
|---|---|---|---|
| Cell pressure | (kPa) | : | 780 |
| Membrane correction | (kPa) | : | 0 |
| Corrected deviator stress | (kPa) | : | 346 |
| Strain at failure | (%) | : | 5.5 |
| Undrained shear strength | (kPa) | : | 173 |

Checked by: MR Date : 16/04/09
Approved by: HS Date : 16/04/09

| Initial Conditions | | | | | |
|---|---|---|---|---|---|
| Sample length | : 203.0 | mm | Bulk density | : 2.07 | Mg/m³ |
| Sample diameter | : 101.0 | mm | Dry density | : 1.70 | Mg/m³ |
| Membrane thickness | : 0.3 | mm | Moisture content | : 22 | % |
| Rate of strain | : 2.0 | %/min | | | |
| stiff gray CLAY with silt. | | | | | |

Borehole : 1
Sample : U6
Depth (m) : 19.60

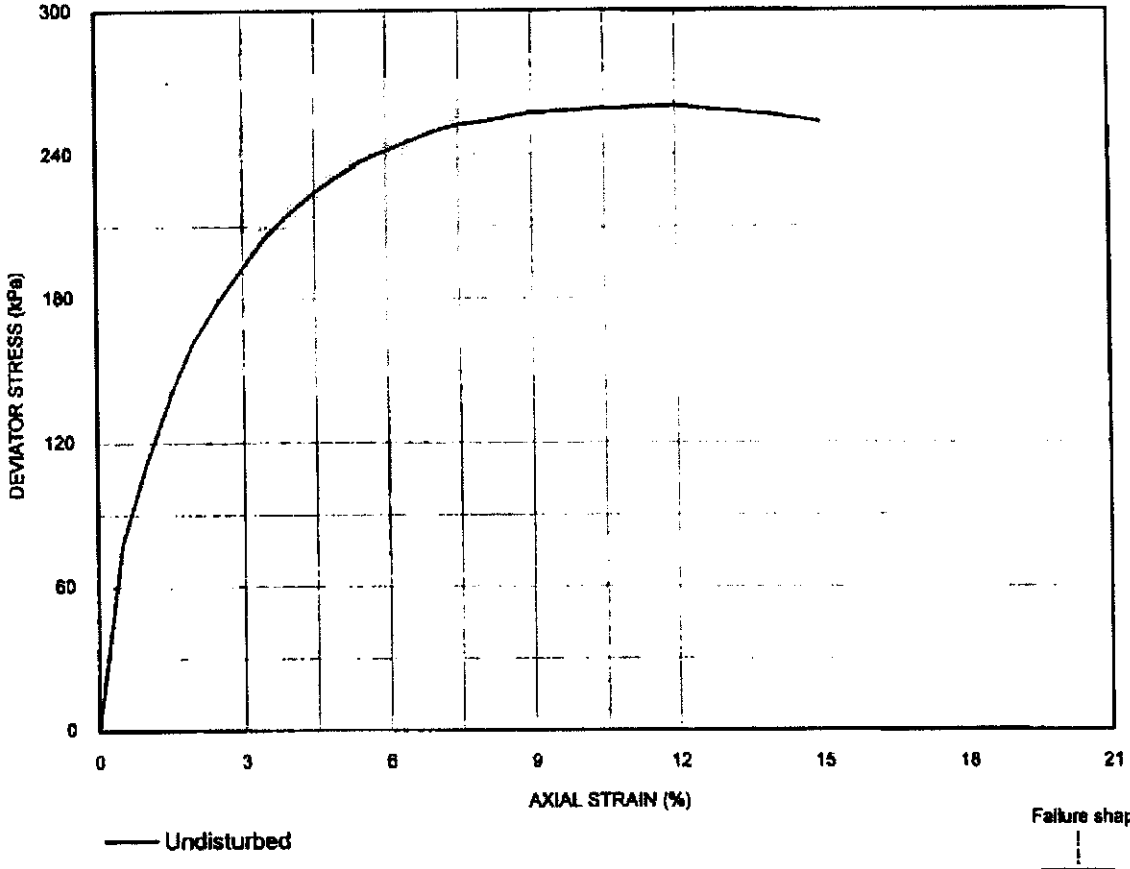
**UNCONSOLIDATED UNDRAINED**
**TRIAXIAL COMPRESSION TEST**

S·G·C
Site Geotechnical Consultants Limited

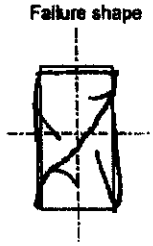
Certificate No: 20921005

**GROUND ENGINEERING**
**HIGHGATE**

Drawn by: MR Date: 16/04/2009




Failure shape



| Failure Conditions | | | |
|---|---|---|---|
| Cell pressure | (kPa) | : | 850 |
| Membrane correction | (kPa) | : | 1 |
| Corrected deviator stress | (kPa) | : | 260 |
| Strain at failure | (%) | : | 12.0 |
| Undrained shear strength | (kPa) | : | 130 |

Checked by: MR Date : 16/04/09 Approved by: HS Date : 16/04/09

| Initial Conditions | | | | | |
|---|---|---|---|---|---|
| Sample length | : 202.0 | mm | Bulk density | : 2.08 | $Mg/m^3$ |
| Sample diameter | : 101.0 | mm | Dry density | : 1.70 | $Mg/m^3$ |
| Membrane thickness | : 0.3 | mm | Moisture content | : 22 | % |
| Rate of strain | : 2.0 | %/min | | | |
| Firm to stiff grey CLAY with silt. | | | | | |

| | | |
|---|---|---|
| Borehole | : | 1 |
| Sample | : | U7 |
| Depth (m) | : | 21.20 |

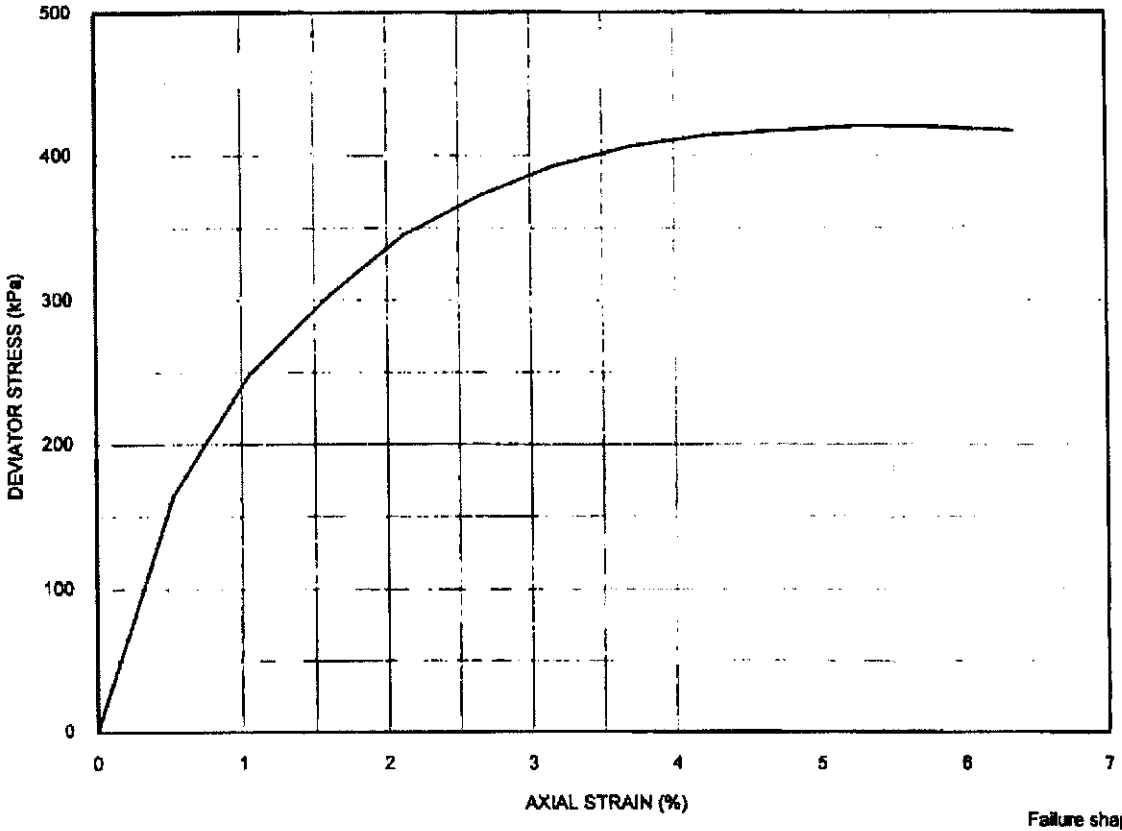
**UNCONSOLIDATED UNDRAINED**
**TRIAXIAL COMPRESSION TEST**

S·G·C
Surrey Geotechnical Consultants Limited

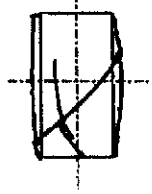
Certificate No: 20921005

**GROUND ENGINEERING**
**HIGHGATE**

Drawn by: MR Date: 15/04/2009




Failure shape



| Failure Conditions | | | |
|---|---|---|---|
| Cell pressure | (kPa) | : | 900 |
| Membrane correction | (kPa) | : | 0 |
| Corrected deviator stress | (kPa) | : | 421 |
| Strain at failure | (%) | : | 5.3 |
| Undrained shear strength | (kPa) | : | 210 |

Checked by: MR Date : 16/04/09
Approved by: HS Date : 16/04/09

| Initial Conditions | | | | | |
|---|---|---|---|---|---|
| Sample length | : 191.0 | mm | Bulk density | : 2.07 | $Mg/m^3$ |
| Sample diameter | : 100.0 | mm | Dry density | : 1.71 | $Mg/m^3$ |
| Membrane thickness | : 0.3 | mm | Moisture content | : 21 | % |
| Rate of strain | : 2.0 | %/min | | | |
| Stiff grey CLAY with silt. Note: may have contained wax, disturbed in tube. | | | | | |

Borehole : 1
Sample : U6
Depth (m) : 22.60

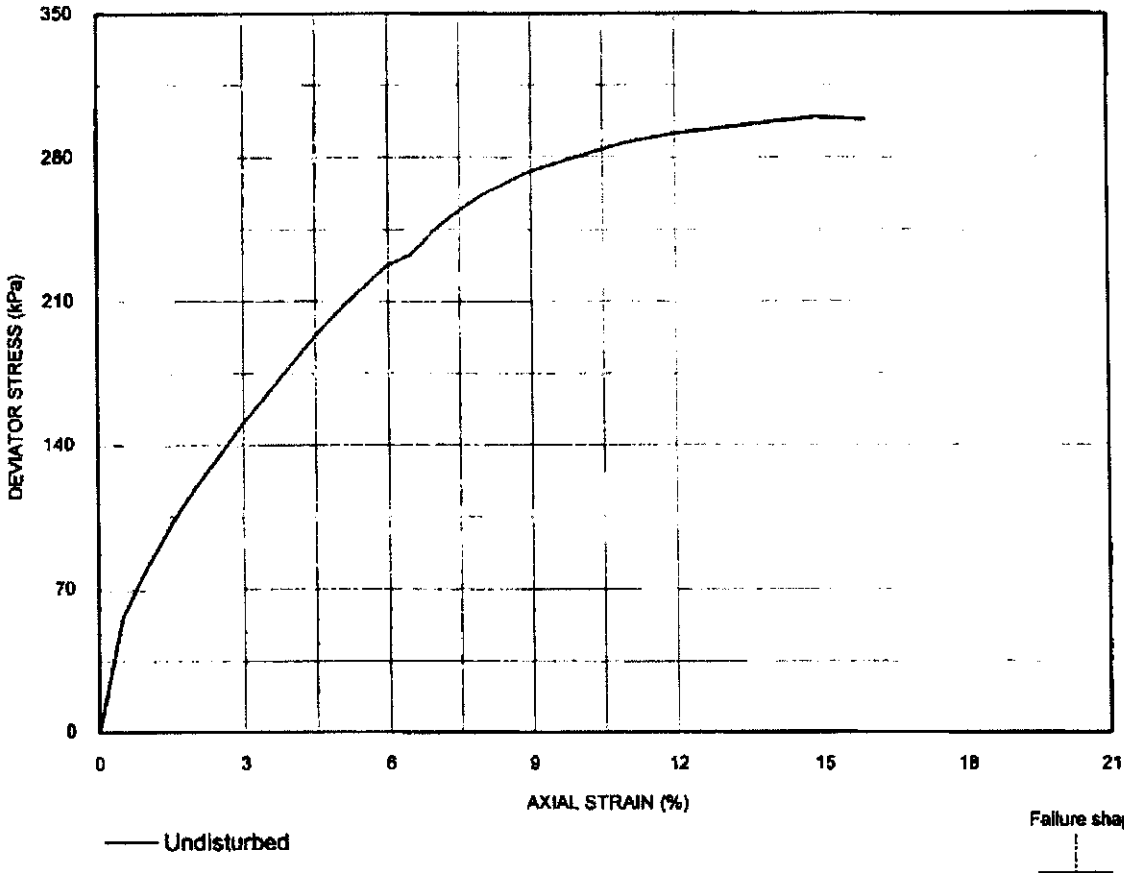
**UNCONSOLIDATED UNDRAINED**
**TRIAXIAL COMPRESSION TEST**

S·G·C
Surrey Geotechnical Consultants Limited

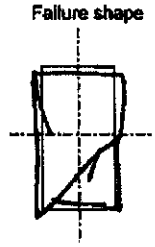
Certificate No: 20921005

**GROUND ENGINEERING**
**HIGHGATE**

Drawn by: MR Date: 14/04/2009




Failure shape



| Failure Conditions | | | |
|---|---|---|---|
| Cell pressure | (kPa) | : | 960 |
| Membrane correction | (kPa) | : | 1 |
| Corrected deviator stress | (kPa) | : | 300 |
| Strain at failure | (%) | : | 14.9 |
| Undrained shear strength | (kPa) | : | 150 |

Checked by: MR Date : 16/04/09
Approved by: HS Date : 16/04/09

| Initial Conditions | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample length | : 203.0 | mm | Bulk density | : 2.03 | $Mg/m^3$ | Borehole : 1 |
| Sample diameter | : 102.0 | mm | Dry density | : 1.62 | $Mg/m^3$ | Sample : U9 |
| Membrane thickness | : 0.3 | mm | Moisture content | : 25 | % | Depth (m) : 24.00 |
| Rate of strain | : 2.0 | %/min | | | | |
| Stiff brown grey CLAY with pockets of sand. | | | | | | |

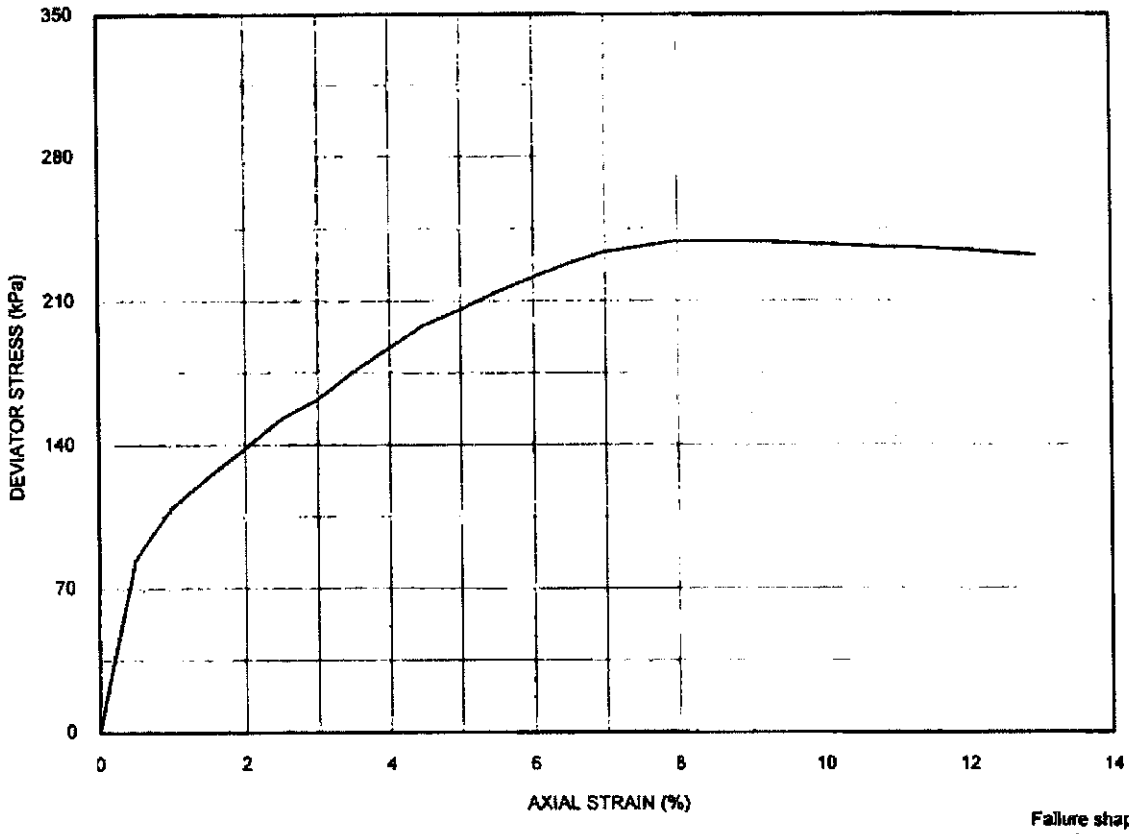
**UNCONSOLIDATED UNDRAINED**
**TRIAXIAL COMPRESSION TEST**

S·G·C
Soil Geotechnical Consultants Limited

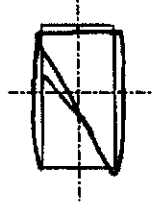
Certificate No: 20921005

**GROUND ENGINEERING**
**HIGHGATE**

Drawn by: MR Date: 14/04/2009




Failure shape



| Failure Conditions | | | |
|---|---|---|---|
| Cell pressure | (kPa) | : | 780 |
| Membrane correction | (kPa) | : | 1 |
| Corrected deviator stress | (kPa) | : | 239 |
| Strain at failure | (%) | : | 8.0 |
| Undrained shear strength | (kPa) | : | 119 |

Checked by: MR Date : 16/04/09
Approved by: HS Date : 16/04/09

| Initial Conditions | | | | | | Borehole : 3 |
|---|---|---|---|---|---|---|
| Sample length | : 203.0 | mm | Bulk density | : 1.99 | Mg/m$^3$ | Sample : U5 |
| Sample diameter | : 101.0 | mm | Dry density | : 1.59 | Mg/m$^3$ | Depth (m) : 19.50 |
| Membrane thickness | : 0.3 | mm | Moisture content | : 25 | % | |
| Rate of strain | : 2.0 | %/min | | | | |
| Firm brown grey CLAY with sand. | | | | | | |

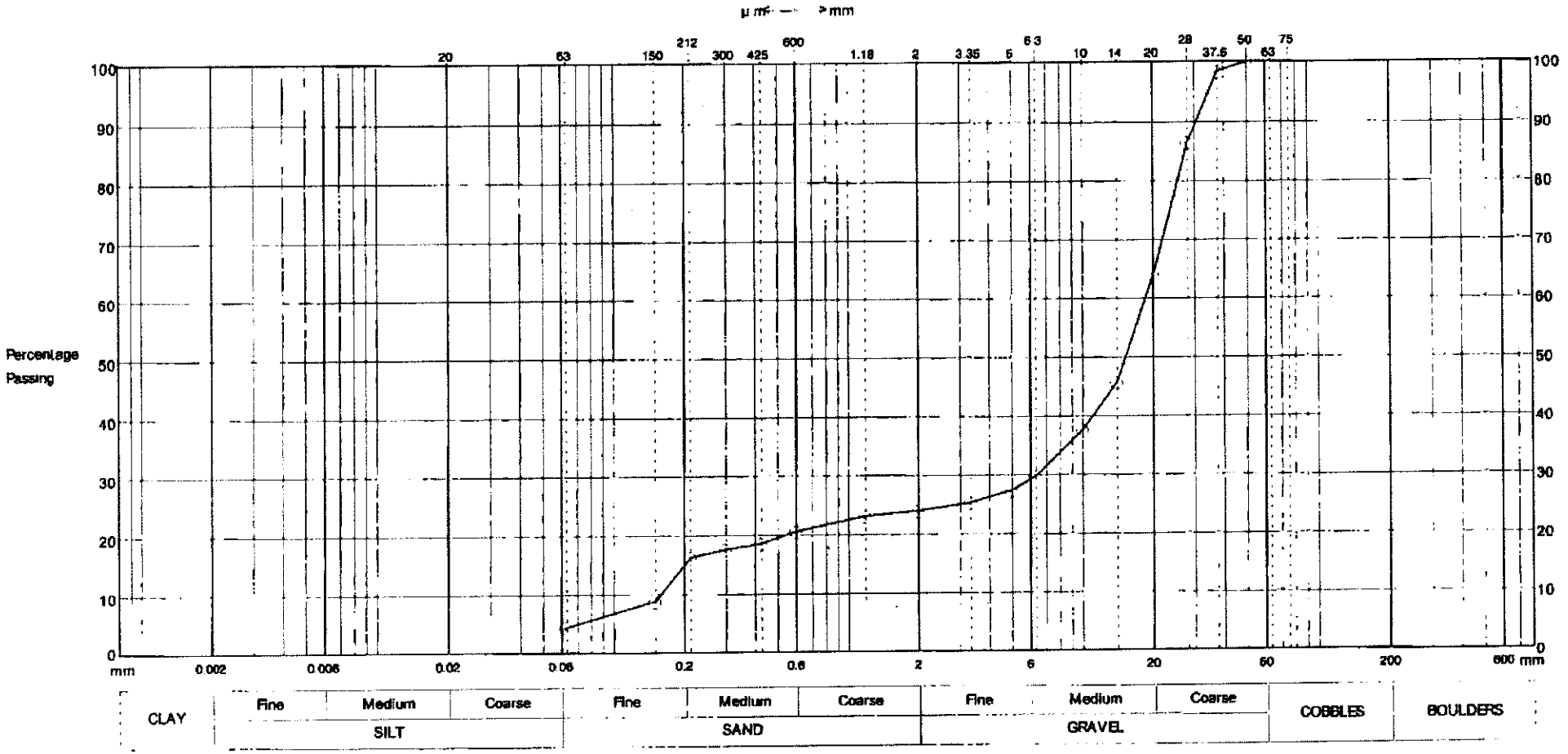
**UNCONSOLIDATED UNDRAINED**
**TRIAXIAL COMPRESSION TEST**

S·G·C
Surrey Geotechnical Consultants Limited

Certificate No: 20921005

# PARTICLE SIZE DISTRIBUTION

| Sieve Size | Size µm | | | | | | | | | Size mm | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 6 | 20 | 63 | 150 | 212 | 300 | 425 | 600 | 1.18 | 2 | 3.35 | 5 | 6.3 | 10 | 14 | 20 | 28 | 37.5 | 50 | 63 | 75 | 90 | 120 |
| Percentage by Mass Passing Sieve | - | - | - | 4 | 9 | 16 | 18 | 19 | 21 | 23 | 24 | 25 | 27 | 30 | 38 | 46 | 64 | 86 | 98 | 100 | - | - | - | - |

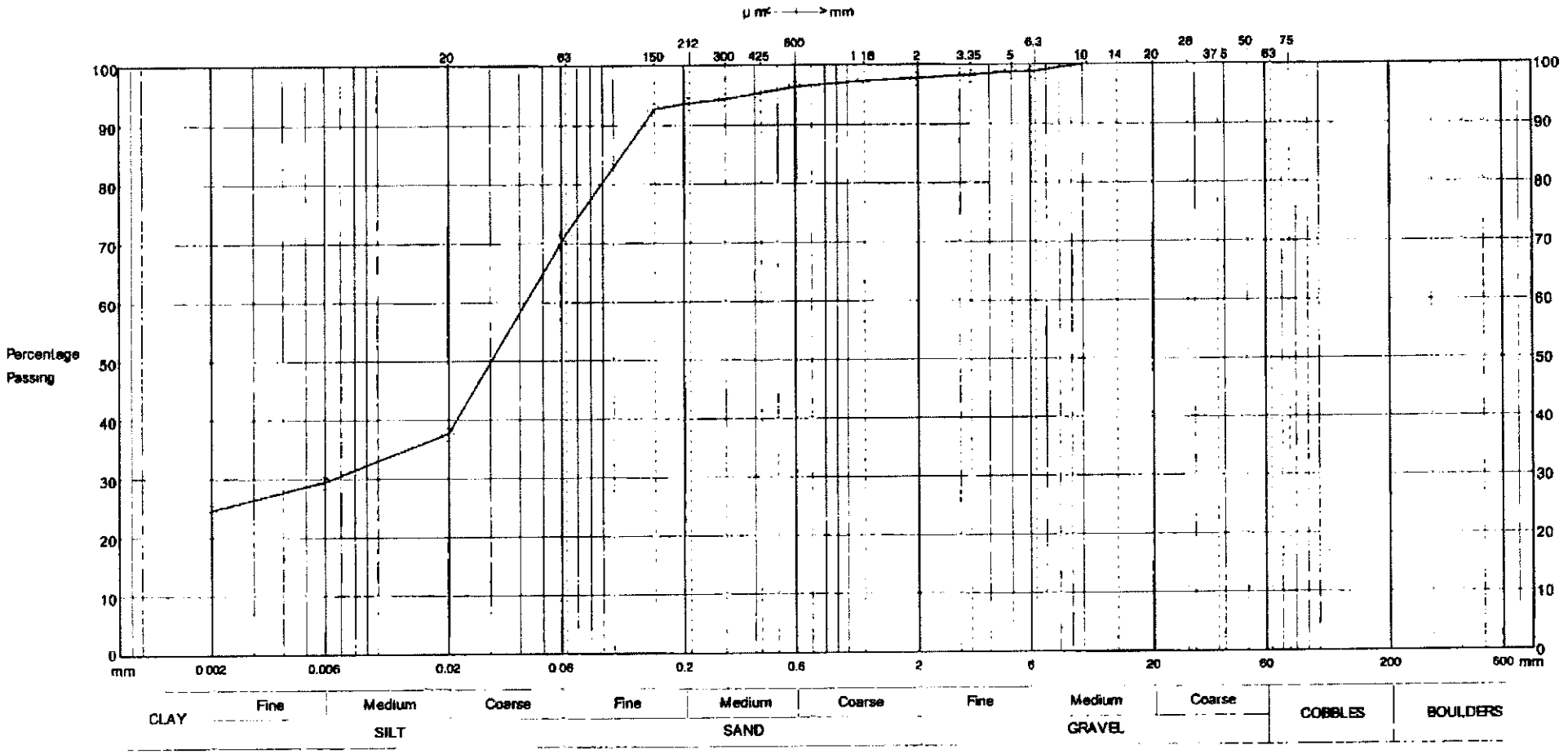



| | | | | | |
|---|---|---|---|---|---|
| | Remarks | Method: Wet Sieve | Sample Number: B2 | Depth: 1.20 - 1.70 | BH/TP Number: BH1 — 11681 |
| | | Site: WITANHURST, 41 HIGHGATE WEST HILL, LONDON N6 | | | |

GROUND ENGINEERING

# PARTICLE SIZE DISTRIBUTION

| Sieve Size | Size µm | | | | | | | | | | | | | | | Size mm | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 6 | 20 | 63 | 150 | 212 | 300 | 425 | 600 | 1.18 | 2 | 3.35 | 5 | 6.3 | 10 | 14 | 20 | 28 | 37.5 | 50 | 63 | 75 | 90 | 120 |
| Percentage by Mass Passing Sieve | 25 | 29 | 38 | 72 | 93 | 94 | 94 | 95 | 96 | 97 | 98 | 98 | 99 | 99 | 100 | - | - | - | - | - | - | - | - | - |

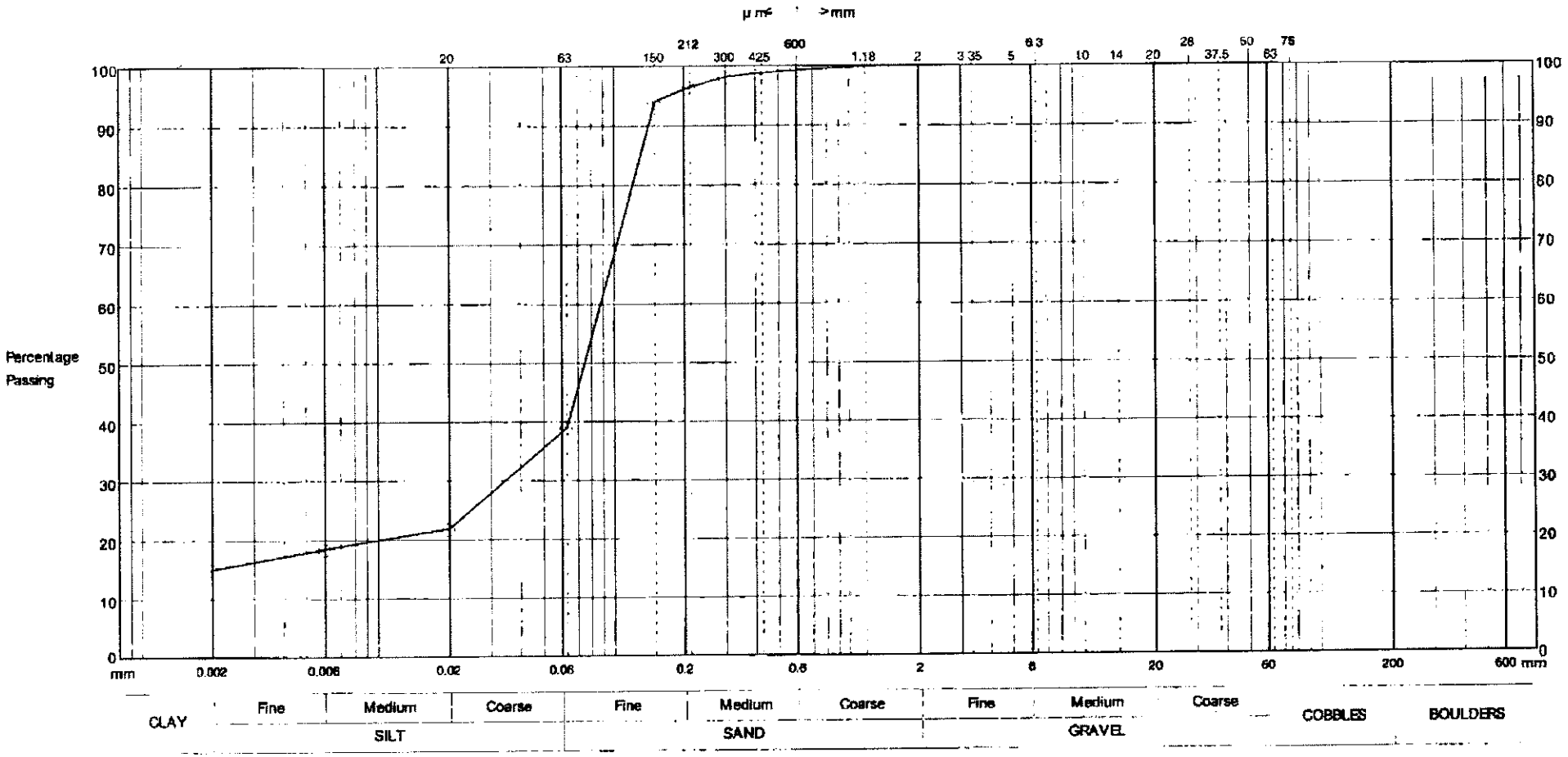



| | Remarks | Method | Sample Number | Depth | BH/TP Number |
|---|---|---|---|---|---|
| | | Wet Sieve/Sedimentation | U1 | 3.00 - 3.50 | BH1 11681 |
| | | Site: WITANHURST, 41 HIGHGATE WEST HILL, LONDON N6 | | | |

GROUND ENGINEERING

# PARTICLE SIZE DISTRIBUTION

| Sieve Size | Size µm | | | | | | | | | Size mm | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 6 | 20 | 63 | 150 | 212 | 300 | 425 | 600 | 1.18 | 2 | 3.35 | 5 | 6.3 | 10 | 14 | 20 | 28 | 37.5 | 50 | 63 | 75 | 90 | 120 |
| Percentage by Mass Passing Sieve | 15 | 18 | 22 | 39 | 94 | 97 | 98 | 99 | 99 | 100 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |

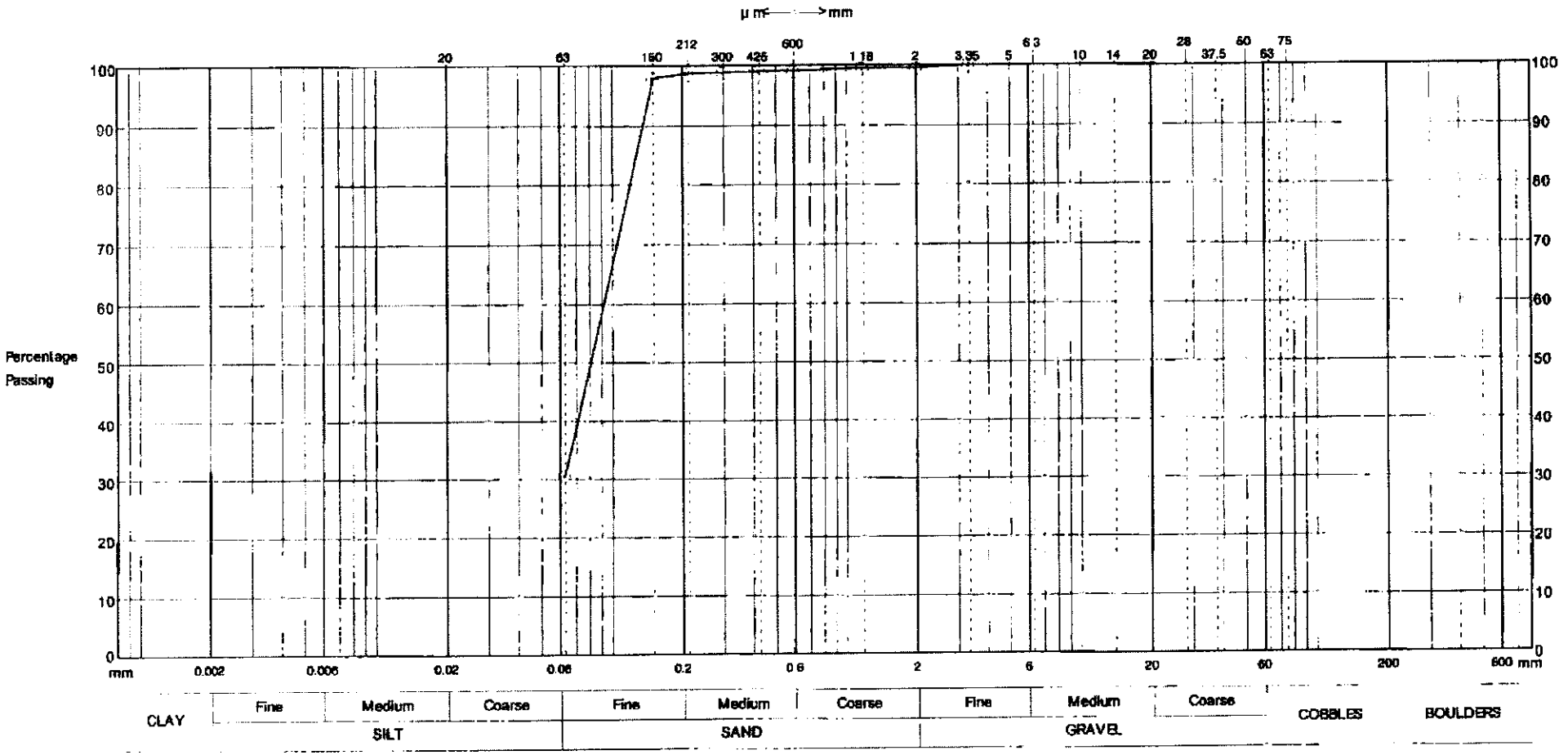



| | | | | |
|---|---|---|---|---|
| | Remarks | Method: Wet Sieve/Sedimentation | Sample Number: U2 | Depth: 5.00 - 5.30 |
| | | | | BH/TP Number: BH1 11681 |
| | | Site: WITANHURST, 41 HIGHGATE WEST HILL, LONDON N6 | | |

GROUND ENGINEERING

# PARTICLE SIZE DISTRIBUTION

| Sieve Size | Size µm | | | | | | | | | Size mm | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 6 | 20 | 63 | 150 | 212 | 300 | 425 | 600 | 1.18 | 2 | 3.35 | 5 | 6.3 | 10 | 14 | 20 | 28 | 37.5 | 50 | 63 | 75 | 90 | 120 |
| Percentage by Mass Passing Sieve | - | - | - | 31 | 98 | 99 | 99 | 99 | 99 | 100 | 100 | 100 | - | - | - | - | - | - | - | - | - | - | - | - |

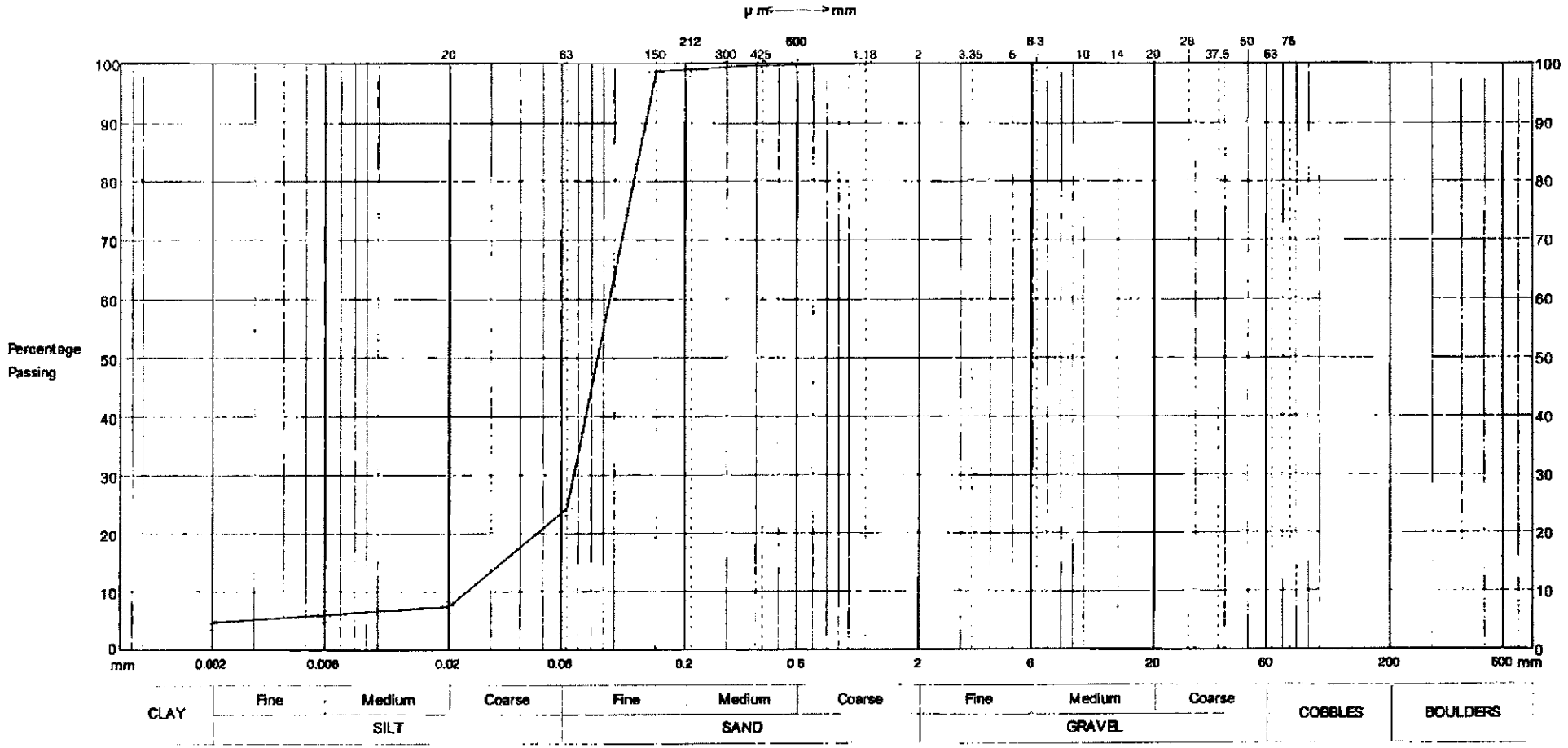



| | | | | | |
|---|---|---|---|---|---|
| | Remarks | Method: Wet Sieve | Sample Number: B5 | Depth: 6.40 - 6.90 | BH/TP Number: BH1 11681 |
| | | Site: WITANHURST, 41 HIGHGATE WEST HILL, LONDON N6 | | | |

GROUND ENGINEERING

# PARTICLE SIZE DISTRIBUTION

| Sieve Size | Size µm | | | | | | | | | | | Size mm | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 6 | 20 | 63 | 150 | 212 | 300 | 425 | 600 | 1.18 | 2 | 3.35 | 5 | 6.3 | 10 | 14 | 20 | 28 | 37.5 | 50 | 63 | 75 | 90 | 120 |
| Percentage by Mass Passing Sieve | 5 | 6 | 7 | 24 | 99 | 99 | 99 | 100 | 100 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

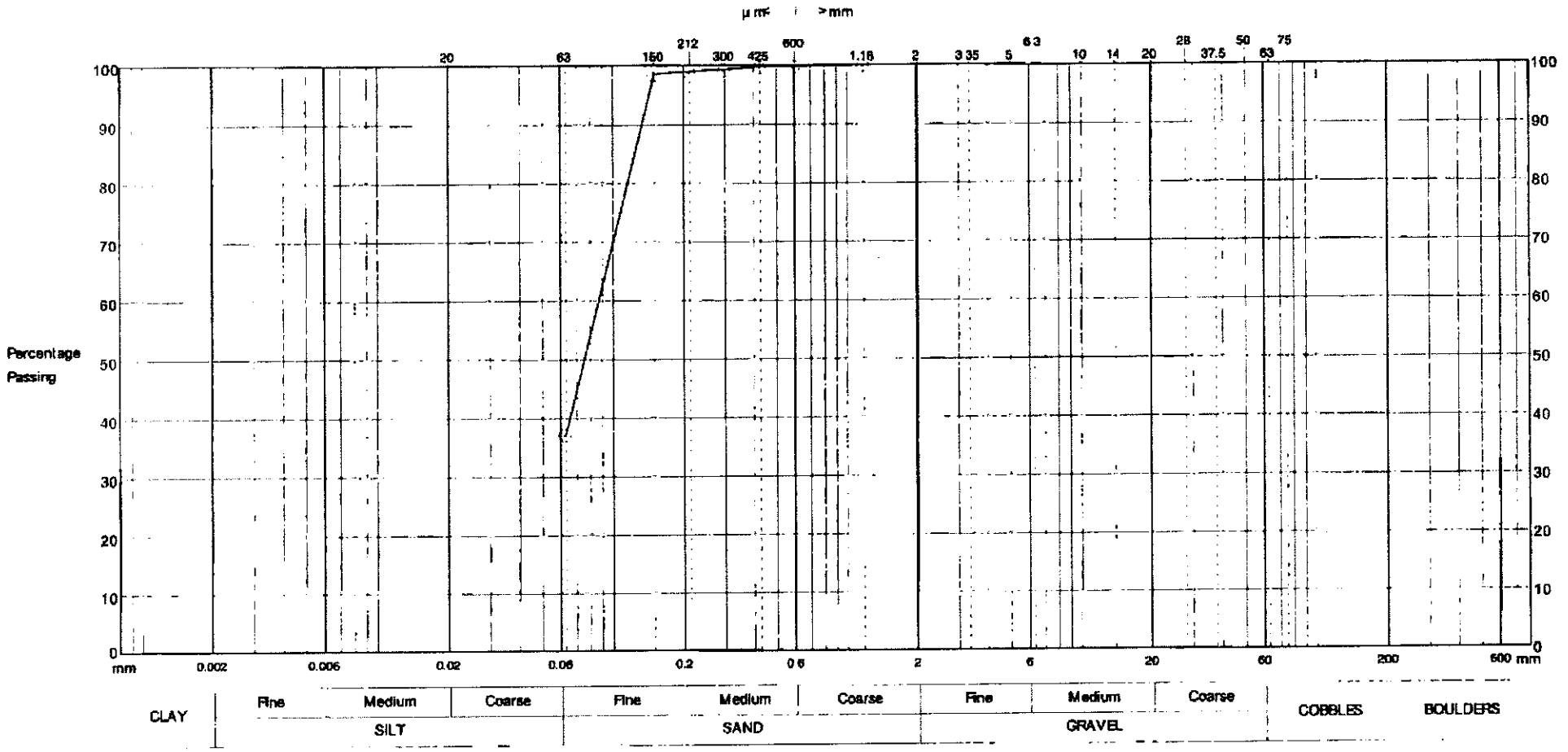



| | Remarks | Method | Sample Number | Depth | BH/TP Number |
|---|---|---|---|---|---|
| | | Wet Sieve/Sedimentation | B7 | 8.90 - 9.40 | BH1 11681 |
| | | Site: WITANHURST, 41 HIGHGATE WEST HILL, LONDON N6 | | | |

GROUND ENGINEERING

# PARTICLE SIZE DISTRIBUTION

| Sieve Size | Size µm | | | | | | | | | Size mm | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 6 | 20 | 63 | 150 | 212 | 300 | 425 | 600 | 1.18 | 2 | 3.35 | 5 | 6.3 | 10 | 14 | 20 | 28 | 37.5 | 50 | 63 | 75 | 90 | 120 |
| Percentage by Mass Passing Sieve | - | - | - | 37 | 99 | 99 | 99 | 100 | 100 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



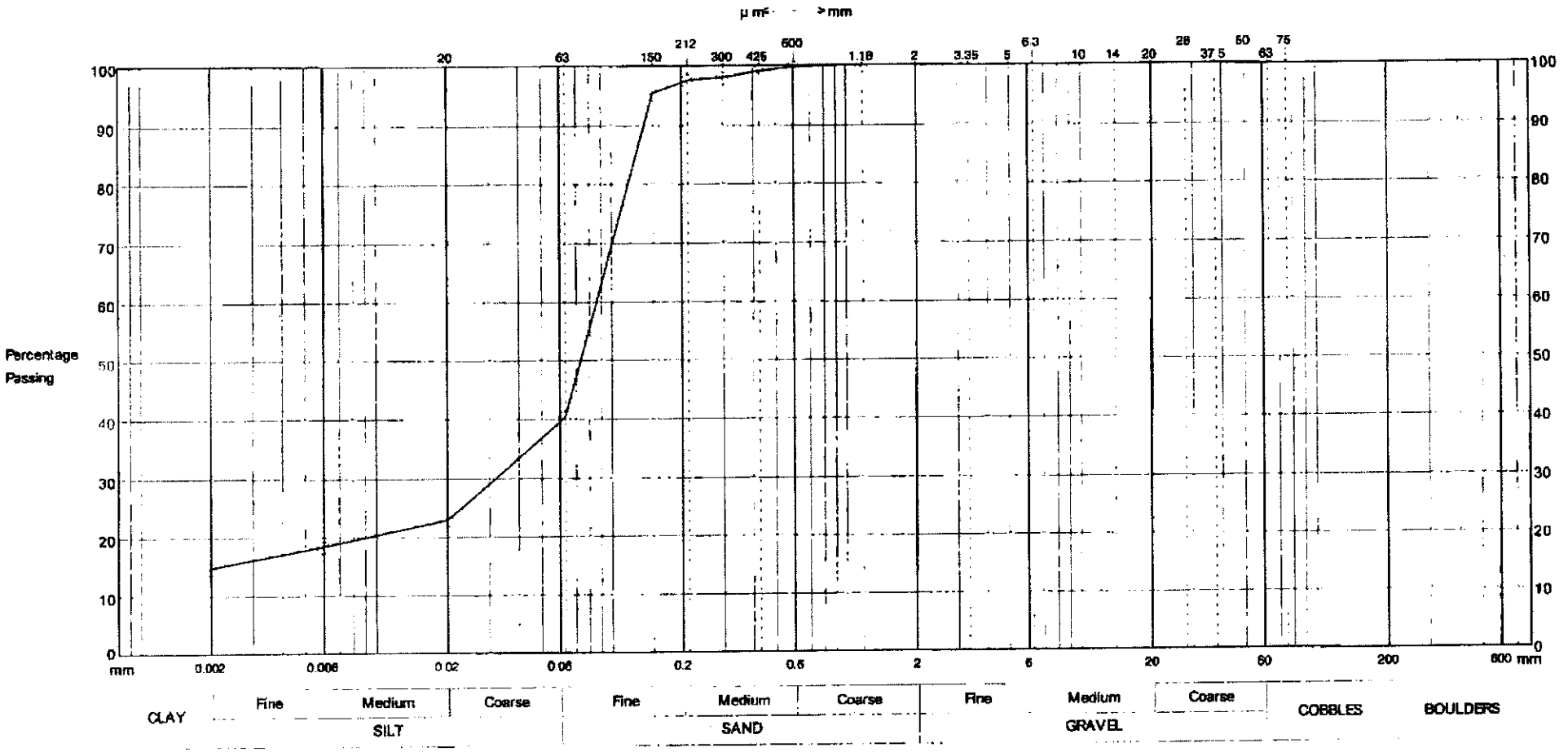

| | Remarks | Method | Sample Number | Depth | BH/TP Number |
|---|---|---|---|---|---|
| | | Wet Sieve | B9 | 12.10 - 12.60 | BH1 11681 |

Site: WITANHURST, 41 HIGHGATE WEST HILL, LONDON N6

GROUND ENGINEERING

# PARTICLE SIZE DISTRIBUTION

| | Size µm | | | | | | | | | | | | Size mm | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sieve Size | 2 | 6 | 20 | 63 | 150 | 212 | 300 | 425 | 600 | 1.18 | 2 | 3.35 | 5 | 6.3 | 10 | 14 | 20 | 28 | 37.5 | 50 | 63 | 75 | 90 | 120 |
| Percentage by Mass Passing Sieve | 15 | 18 | 23 | 40 | 95 | 98 | 98 | 99 | 100 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |




| | | | | |
|---|---|---|---|---|
| | Remarks | Method: Wet Sieve/Sedimentation | Sample Number: U3 | Depth: 15.00 - 15.50 |
| | | Site: WITANHURST, 41 HIGHGATE WEST HILL, LONDON N6 | | BH/TP Number: BH1 11681 |

GROUND ENGINEERING