SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022.

Normec i2 Analytical

4041

Client: Merebrook

Client Address: First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ

Contact: Callum Moller

Site Address: Glebe Farm

Client Reference: 21949AH
Job Number: 25-056500-1
Date Sampled: 29/09 - 30/09/2025
Date Received: 06/10/2025
Date Tested: 23/10 - 27/10/2025
Sampled By: Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	WL* %	Correlation Factor	Wp %	Ip %	Cone type	Sample Preparation	bulk Mg/m3	dry Mg/m3	PD Mg/m3
720368	BH01	Not Given	0.50	Not Given	B	Yellowish brown slightly gravelly slightly sandy silty CLAY	Atterberg 4 Point	22.6	75	58	-	27	31	80g/30 deg	WR / I			
720369	BH01	Not Given	3.00	Not Given	D	Brownish grey silty CLAY	Atterberg 4 Point	27.0	100	75	-	33	42	80g/30 deg	N / I			
720371	BH01	Not Given	5.00	Not Given	D	Brownish grey silty CLAY	Atterberg 4 Point	26.2	100	74	-	34	40	80g/30 deg	N / I			
720372	BH2	Not Given	0.60	Not Given	B	Light brown silty CLAY	Atterberg 4 Point	28.3	100	83	-	35	48	80g/30 deg	N / I			
720373	BH2	Not Given	2.00	Not Given	D	Brownish grey slightly gravelly CLAY	Atterberg 4 Point	33.5	99	80	-	31	49	80g/30 deg	R / I			
720375	BH2	Not Given	2.75	Not Given	D	Brownish grey silty CLAY	Atterberg 4 Point	30.8	100	82	-	36	46	80g/30 deg	N / I			
720378	BH2	Not Given	7.20	Not Given	B	Brownish grey silty CLAY	Atterberg 4 Point	34.7	100	71	-	31	40	80g/30 deg	N / I			
720379	BH3	Not Given	0.90	Not Given	D	Yellowish brown very sandy CLAY	Atterberg 4 Point	15.6	100	29	-	12	17	80g/30 deg	N / I			
720380	BH3	Not Given	2.00	Not Given	B	Brownish brown slightly gravelly silty CLAY	Atterberg 4 Point	34.4	98	78	-	33	45	80g/30 deg	R / I			
720382	BH3	Not Given	3.00	Not Given	D	Brownish grey CLAY	Atterberg 4 Point	34.0	100	68	-	27	41	80g/30 deg	N / I			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased , D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Date Reported: 18/11/2025 **GF 362.17**

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022.

Normec i2 Analytical

4041

Client: Merebrook

Client Address: First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ

Contact: Callum Moller

Site Address: Glebe Farm

Client Reference: 21949AH

Job Number: 25-056500-1

Date Sampled: 30/09 - 01/10/2025

Date Received: 06/10/2025

Date Tested: 23/10 - 06/11/2025

Sampled By: Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	WL* %	Correlation Factor	Wp %	Ip %	Cone type	Sample Preparation	bulk Mg/m3	dry Mg/m3	PD Mg/m3
720383	BH3	Not Given	3.00	Not Given	B	Greyish brown silty CLAY	Atterberg 4 Point	30.9	100	70	-	31	39	80g/30 deg	N / I			
720384	BH3	Not Given	4.00	Not Given	D	Brownish grey silty CLAY	Atterberg 4 Point	22.5	100	69	-	31	38	80g/30 deg	N / I			
720385	BH3	Not Given	4.50	Not Given	U	Greyish brown silty CLAY	Atterberg 4 Point	28.8	100	74	-	33	41	80g/30 deg	N / I			
720386	BH3	Not Given	4.80	Not Given	D	Brownish grey silty CLAY	Atterberg 4 Point	29.0	100	74	-	34	40	80g/30 deg	N / I			
720388	BH4	Not Given	0.50	Not Given	B	Brown slightly gravelly CLAY	Atterberg 4 Point	29.0	93	71	-	31	40	80g/30 deg	WR / I			
720389	BH4	Not Given	1.50	Not Given	B	Brownish grey slightly gravelly CLAY	Atterberg 4 Point	29.2	85	65	-	24	41	80g/30 deg	R / I			
720391	BH4	Not Given	3.00	Not Given	D	Brownish grey silty CLAY	Atterberg 4 Point	37.2	100	86	-	34	52	80g/30 deg	N / I			
720392	BH4	Not Given	3.50	Not Given	B	Light brown CLAY	Atterberg 4 Point	37.2	100	82	-	29	53	80g/30 deg	N / I			
720393	BH4	Not Given	3.50	3.95	B	Brownish grey silty CLAY	Atterberg 4 Point	28.8	100	81	-	36	45	80g/30 deg	N / I			
720395	BH4	Not Given	6.50	Not Given	D	Brownish grey slightly gravelly silty CLAY	Atterberg 4 Point	28.6	99	72	-	31	41	80g/30 deg	R / I			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased , D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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Date Reported: 18/11/2025 **GF 362.17**

SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1

4041

Client: Merebrook

Client Address: First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ

Contact: Callum Moller

Site Address: Glebe Farm

Client Reference: 21949AH
Job Number: 25-056500-1
Date Sampled: 29/09 - 30/09/2025
Date Received: 06/10/2025
Date Tested: 23/10 - 27/10/2025
Sampled By: Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type			%											
720368	BH01	Not Given	0.50	Not Given	B	Yellowish brown slightly gravelly slightly sandy silty CLAY		22.6											
720369	BH01	Not Given	3.00	Not Given	D	Brownish grey silty CLAY		27.0											
720371	BH01	Not Given	5.00	Not Given	D	Brownish grey silty CLAY		26.2											
720372	BH2	Not Given	0.60	Not Given	B	Light brown silty CLAY		28.3											
720373	BH2	Not Given	2.00	Not Given	D	Brownish grey slightly gravelly CLAY		33.5											
720375	BH2	Not Given	2.75	Not Given	D	Brownish grey silty CLAY		30.8											
720378	BH2	Not Given	7.20	Not Given	B	Brownish grey silty CLAY		34.7											
720379	BH3	Not Given	0.90	Not Given	D	Yellowish brown very sandy CLAY		15.6											
720380	BH3	Not Given	2.00	Not Given	B	Brownish brown slightly gravelly silty CLAY		34.4											
720382	BH3	Not Given	3.00	Not Given	D	Brownish grey CLAY		34.0											

Comments:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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Date Reported: 18/11/2025

GF 126.20

SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1

4041

Client: Merebrook

Client Address: First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ

Contact: Callum Moller

Site Address: Glebe Farm

Client Reference: 21949AH
Job Number: 25-056500-1
Date Sampled: 30/09 - 01/10/2025
Date Received: 06/10/2025
Date Tested: 23/10 - 06/11/2025
Sampled By: Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type			%											
720383	BH3	Not Given	3.00	Not Given	B	Greyish brown silty CLAY		30.9											
720384	BH3	Not Given	4.00	Not Given	D	Brownish grey silty CLAY		22.5											
720385	BH3	Not Given	4.50	Not Given	U	Greyish brown silty CLAY		28.8											
720386	BH3	Not Given	4.80	Not Given	D	Brownish grey silty CLAY		29.0											
720388	BH4	Not Given	0.50	Not Given	B	Brown slightly gravelly CLAY		29.0											
720389	BH4	Not Given	1.50	Not Given	B	Brownish grey slightly gravelly CLAY		29.2											
720391	BH4	Not Given	3.00	Not Given	D	Brownish grey silty CLAY		37.2											
720392	BH4	Not Given	3.50	Not Given	B	Light brown CLAY		37.2											
720393	BH4	Not Given	3.50	3.95	B	Brownish grey silty CLAY		28.8											
720395	BH4	Not Given	6.50	Not Given	D	Brownish grey slightly gravelly silty CLAY		28.6											

Comments:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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Date Reported: 18/11/2025

GF 126.20

TEST CERTIFICATE

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

Tested in Accordance with: BS EN ISO 17982-8:2018,
BS 1377-2 Cl. 28:2022

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056500-1
		Date Sampled:	29/09/2025
		Date Received:	06/10/2025
Contact:	Tim Stempt	Date Tested:	14/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

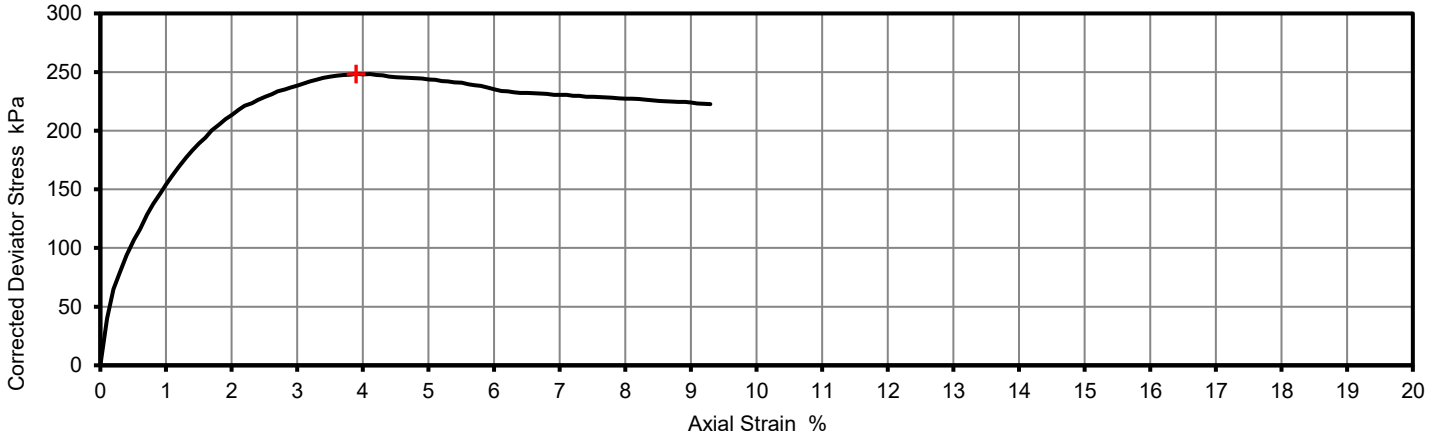
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

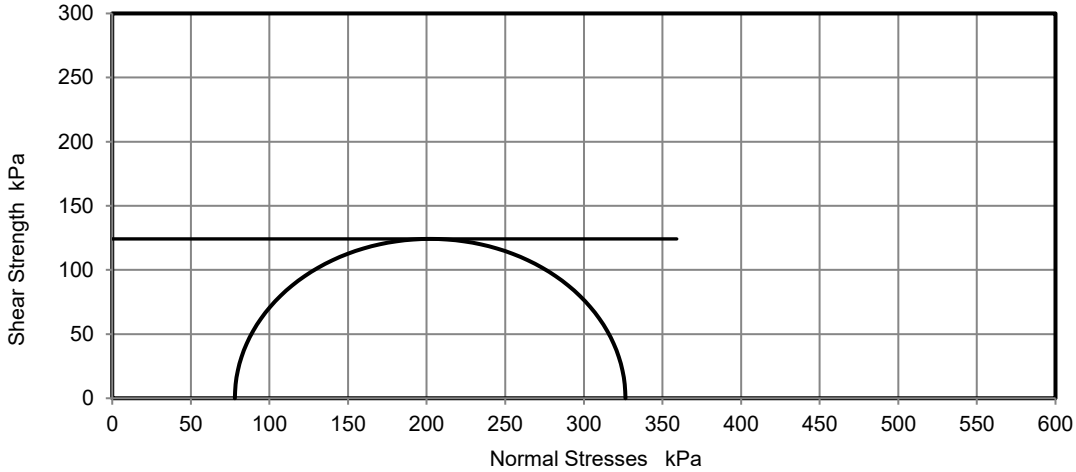
Laboratory Reference:	720370	Depth Top [m]:	3.50
Hole No.:	BH01	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	U
Sample Description:	Light brown silty CLAY		
Sample Preparation:	Sample prepared in accordance with BS EN ISO 17892-8: 2018 Clause 6.2.		

Test Number	1		Rate of Strain	1.00	%/min
Depth within Sample	-	m	Cell Pressure	78	kPa
Length	99.51	mm	Axial Strain at Failure	3.9	%
Diameter	49.85	mm	Deviator Stress, (σv-σh)	248	kPa
Length Prior to Shearing	99.51	mm	Undrained Shear Strength, cu	124	kPa ½(σv-σh)
Bulk Density	1.94	Mg/m3	Mode of Failure	Brittle	
Initial Water Content	28.2	%	Membrane Thickness	0.25	mm
Final Water Content	28.1	%	Membrane Correction	1.12	kPa
Dry Density	1.52	Mg/m3			

Deviator Stress v Axial Strain

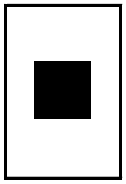


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects.

Remarks:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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Date Reported: 18/11/2025

GF 463.6

TEST CERTIFICATE

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

Tested in Accordance with: BS EN ISO 17982-8:2018,
BS 1377-2 Cl. 28:2022

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056500-1
		Date Sampled:	30/09/2025
		Date Received:	06/10/2025
Contact:	Tim Stempt	Date Tested:	14/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

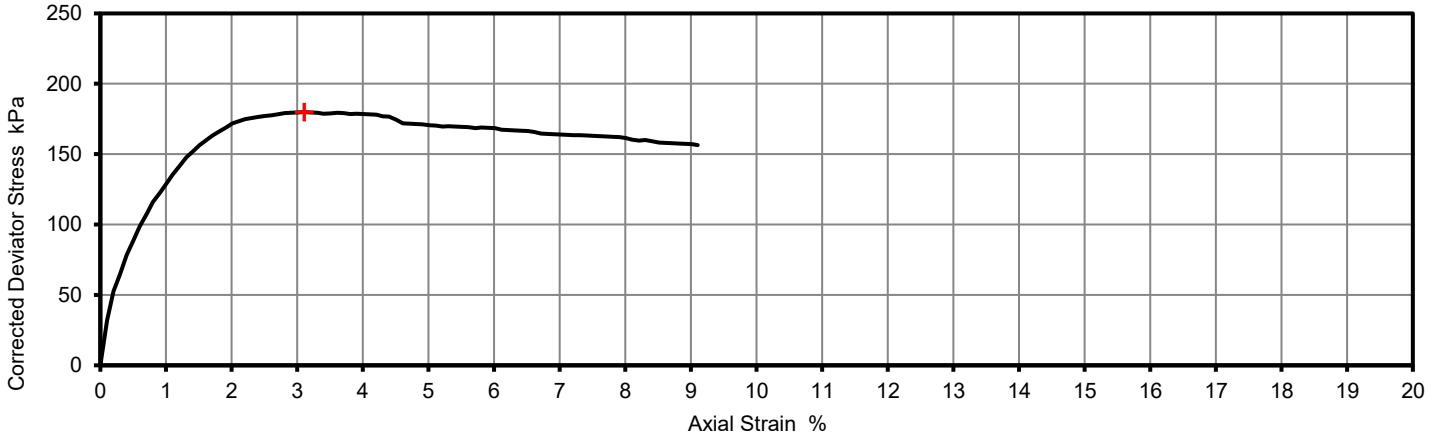
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

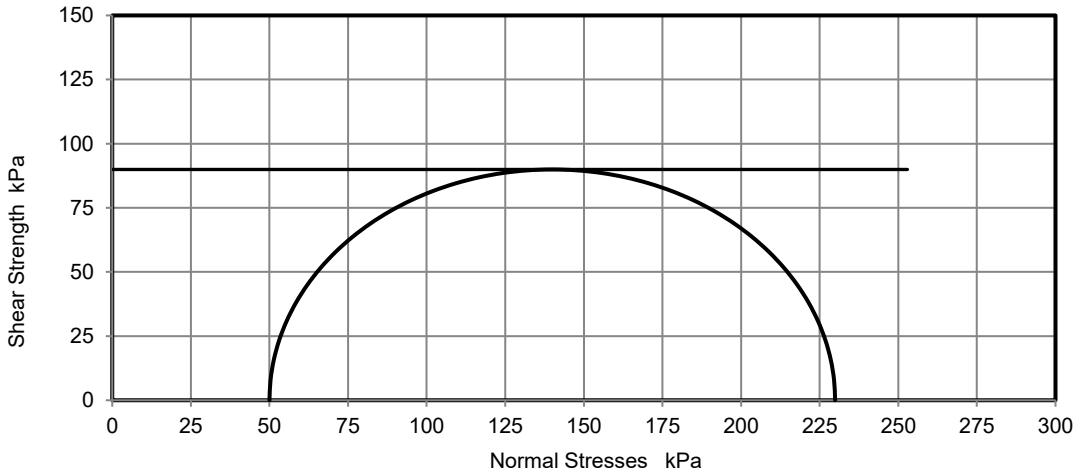
Laboratory Reference:	720374	Depth Top [m]:	2.50
Hole No.:	BH2	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	U
Sample Description:	Light brown silty CLAY		
Sample Preparation:	Sample prepared in accordance with BS EN ISO 17892-8: 2018 Clause 6.2.		

Test Number	1		Rate of Strain	1.00	%/min	
Depth within Sample	-	m	Cell Pressure	50	kPa	
Length	99.76	mm	Axial Strain at Failure	3.1	%	
Diameter	50.11	mm	Deviator Stress, (σv-σh)	180	kPa	
Length Prior to Shearing	99.76	mm	Undrained Shear Strength, cu	90	kPa	½(σv-σh)
Bulk Density	1.87	Mg/m3	Mode of Failure	Brittle		
Initial Water Content	31.0	%	Membrane Thickness	0.24	mm	
Final Water Content	30.5	%	Membrane Correction	0.85	kPa	
Dry Density	1.43	Mg/m3				

Deviator Stress v Axial Strain

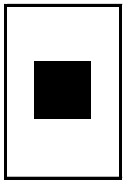


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects.

Remarks:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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Date Reported: 18/11/2025

GF 463.6

TEST CERTIFICATE

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

Tested in Accordance with: BS EN ISO 17982-8:2018,
BS 1377-2 Cl. 28:2022

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056500-1
		Date Sampled:	30/09/2025
		Date Received:	06/10/2025
Contact:	Tim Stempt	Date Tested:	14/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

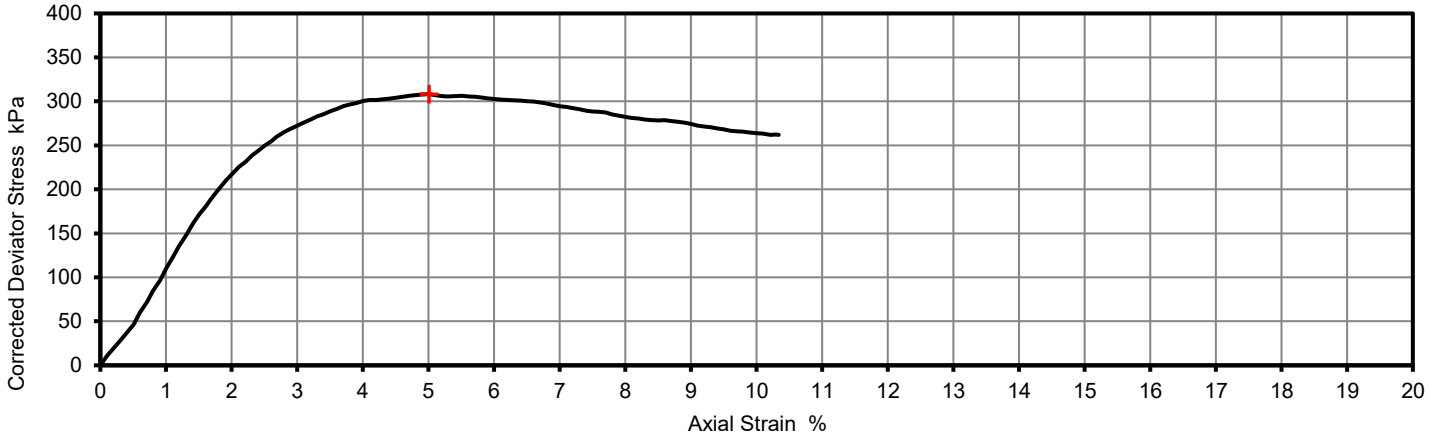
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

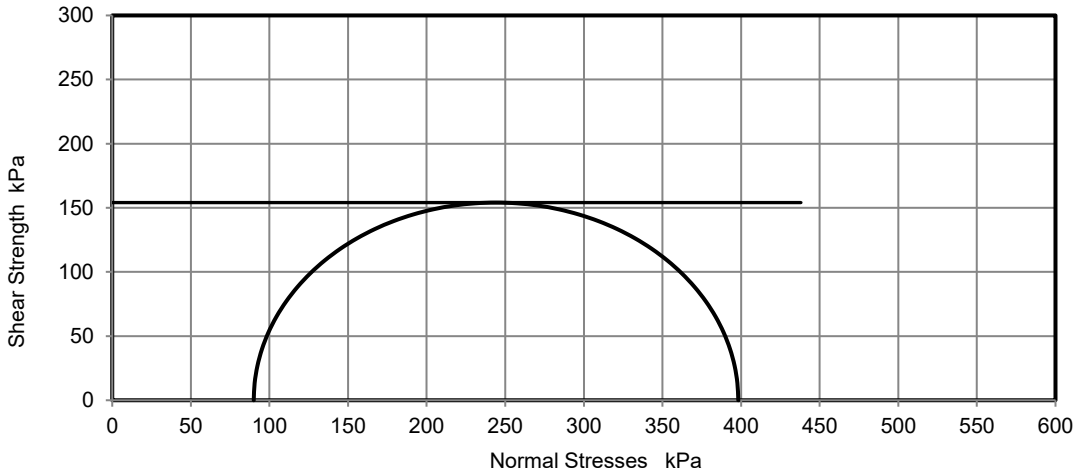
Laboratory Reference:	720376	Depth Top [m]:	4.50
Hole No.:	BH2	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	U
Sample Description:	Light brown silty CLAY		
Sample Preparation:	Sample prepared in accordance with BS EN ISO 17892-8: 2018 Clause 6.2.		

Test Number	1		Rate of Strain	1.00	%/min	
Depth within Sample	-	m	Cell Pressure	90	kPa	
Length	99.83	mm	Axial Strain at Failure	5.0	%	
Diameter	49.79	mm	Deviator Stress, (σv-σh)	308	kPa	
Length Prior to Shearing	99.83	mm	Undrained Shear Strength, cu	154	kPa	½(σv-σh)
Bulk Density	1.95	Mg/m3	Mode of Failure	Brittle		
Initial Water Content	30.8	%	Membrane Thickness	0.26	mm	
Final Water Content	28.9	%	Membrane Correction	1.49	kPa	
Dry Density	1.49	Mg/m3				

Deviator Stress v Axial Strain

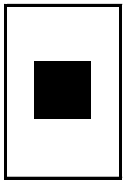


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects.

Remarks:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

Tested in Accordance with: BS EN ISO 17982-8:2018,
BS 1377-2 Cl. 28:2022

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056500-1
		Date Sampled:	30/09/2025
		Date Received:	06/10/2025
Contact:	Tim Stempt	Date Tested:	14/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

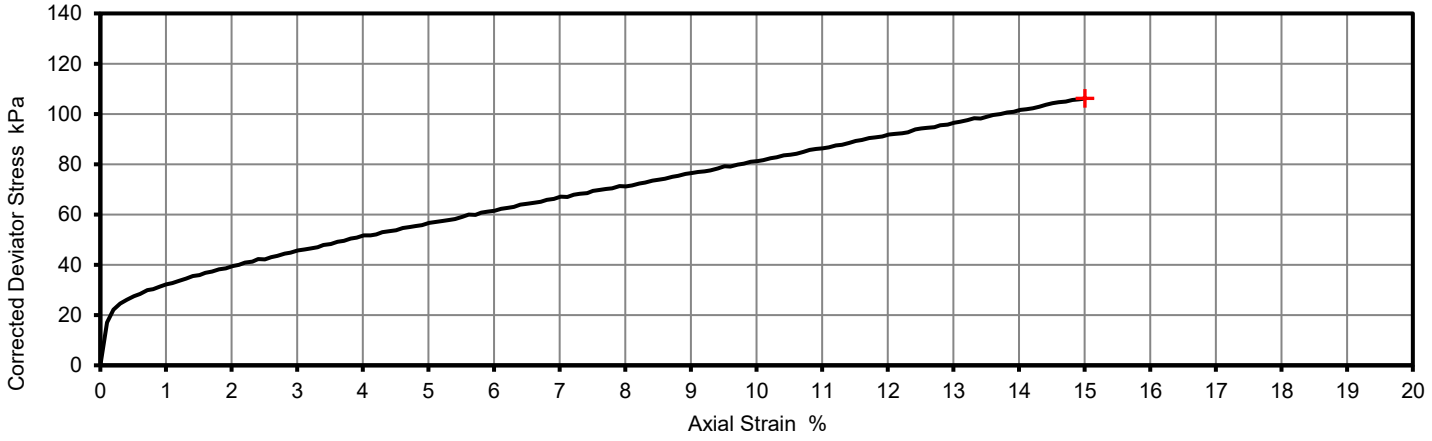
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

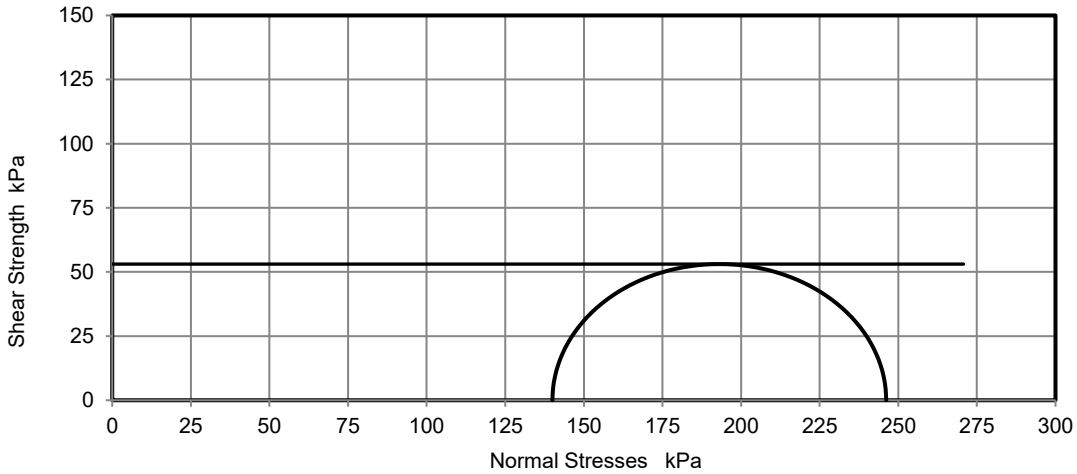
Laboratory Reference:	720377	Depth Top [m]:	7.00
Hole No.:	BH2	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	U
Sample Description:	Light brown silty CLAY		
Sample Preparation:	Sample prepared in accordance with BS EN ISO 17892-8: 2018 Clause 6.2.		

Test Number	1		Rate of Strain	1.00	%/min	
Depth within Sample	-	m	Cell Pressure	140	kPa	
Length	99.37	mm	Axial Strain at Failure	15.0	%	
Diameter	50.17	mm	Deviator Stress, (σv-σh)	106	kPa	
Length Prior to Shearing	99.37	mm	Undrained Shear Strength, cu	53	kPa	½(σv-σh)
Bulk Density	1.89	Mg/m3	Mode of Failure	Compound		
Initial Water Content	31.2	%	Membrane Thickness	0.25	mm	
Final Water Content	30.6	%	Membrane Correction	4.31	kPa	
Dry Density	1.44	Mg/m3				

Deviator Stress v Axial Strain

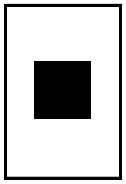


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects.

Remarks:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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Date Reported: 18/11/2025

GF 463.6

TEST CERTIFICATE

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

Tested in Accordance with: BS EN ISO 17982-8:2018,
BS 1377-2 Cl. 28:2022

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056500-1
		Date Sampled:	30/09/2025
		Date Received:	06/10/2025
Contact:	Tim Stempt	Date Tested:	14/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

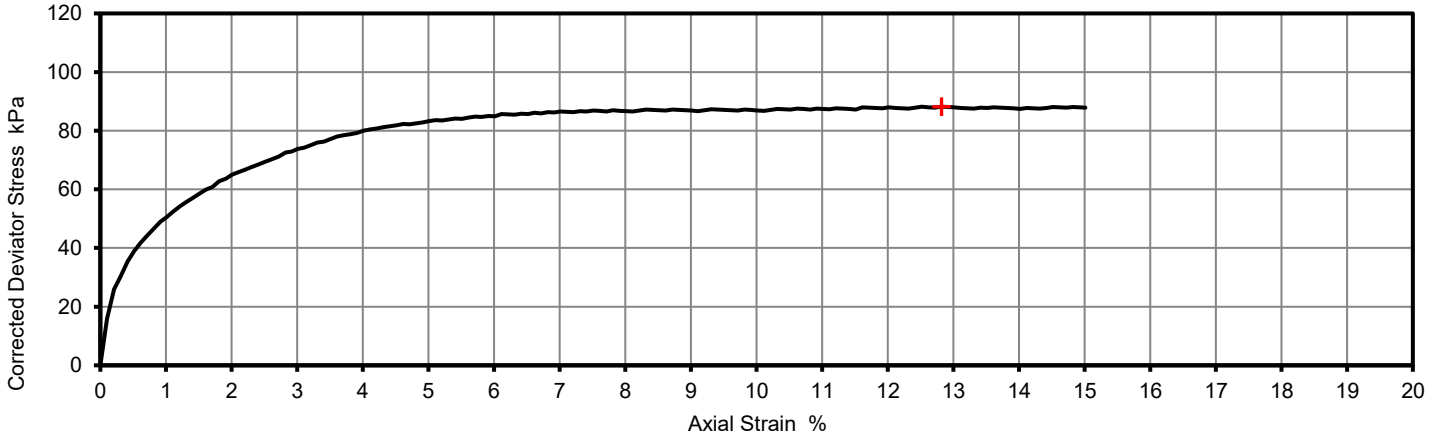
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

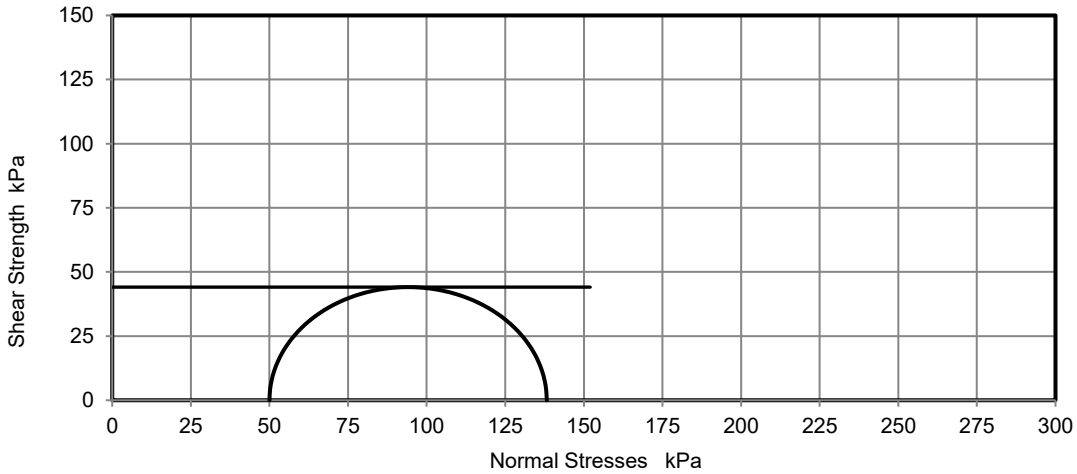
Laboratory Reference:	720381	Depth Top [m]:	2.50
Hole No.:	BH3	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	U
Sample Description:	Light brown silty CLAY		
Sample Preparation:	Sample prepared in accordance with BS EN ISO 17892-8: 2018 Clause 6.2.		

Test Number	1		Rate of Strain	1.00	%/min	
Depth within Sample	-	m	Cell Pressure	50	kPa	
Length	99.47	mm	Axial Strain at Failure	12.8	%	
Diameter	50.25	mm	Deviator Stress, (σv-σh)	88	kPa	
Length Prior to Shearing	99.47	mm	Undrained Shear Strength, cu	44	kPa	½(σv-σh)
Bulk Density	1.66	Mg/m3	Mode of Failure	Brittle		
Initial Water Content	55.4	%	Membrane Thickness	0.24	mm	
Final Water Content	54.8	%	Membrane Correction	3.53	kPa	
Dry Density	1.07	Mg/m3				

Deviator Stress v Axial Strain

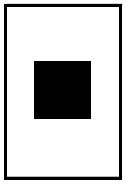


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects.

Remarks:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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Date Reported: 18/11/2025

GF 463.6

TEST CERTIFICATE

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

Tested in Accordance with: BS EN ISO 17982-8:2018,
BS 1377-2 Cl. 28:2022

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056500-1
		Date Sampled:	01/10/2025
		Date Received:	06/10/2025
Contact:	Tim Stempt	Date Tested:	17/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

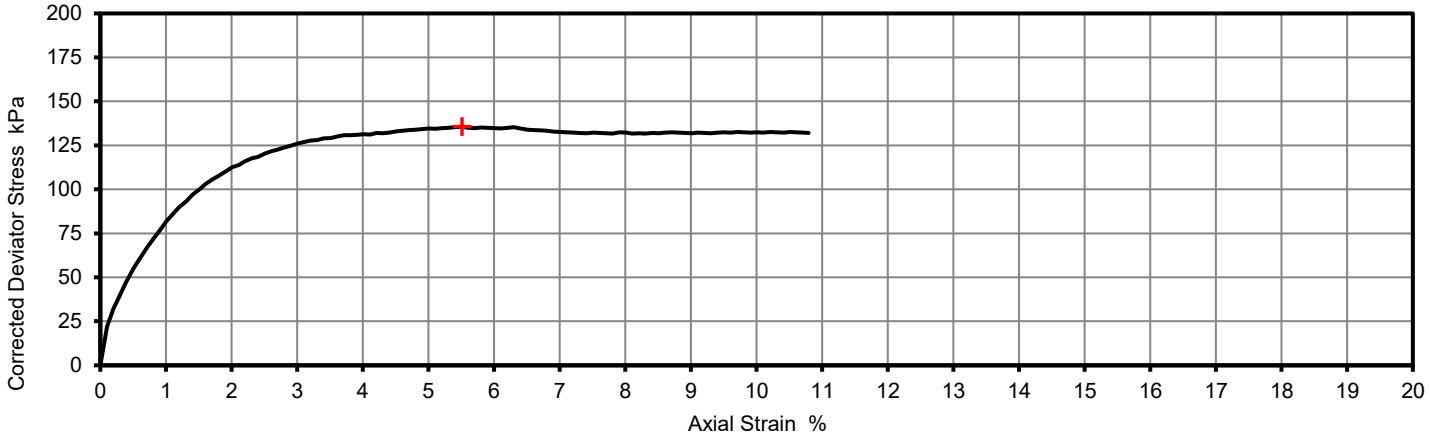
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

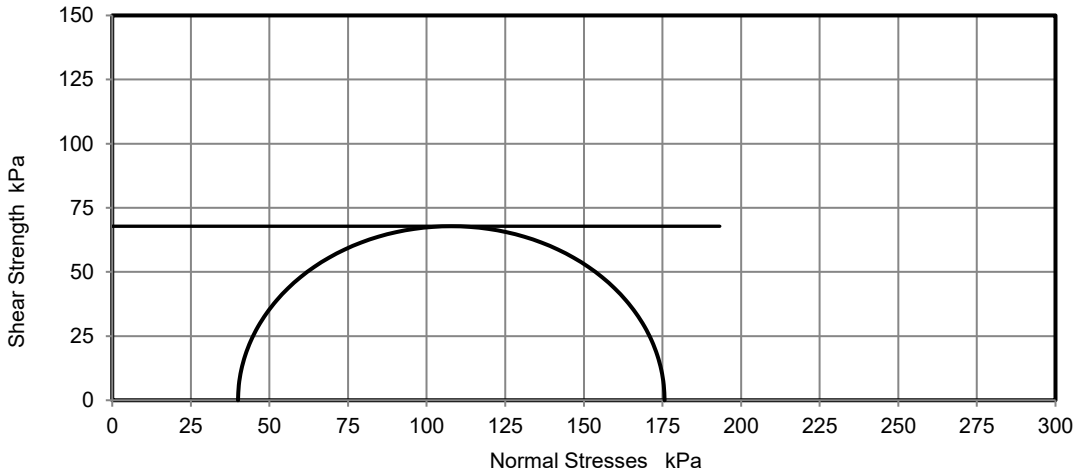
Laboratory Reference:	720390	Depth Top [m]:	2.00
Hole No.:	BH4	Depth Base [m]:	2.45
Sample Reference:	Not Given	Sample Type:	U
Sample Description:	Light brown silty CLAY		
Sample Preparation:	Sample prepared in accordance with BS EN ISO 17892-8: 2018 Clause 6.2.		

Test Number	1		Rate of Strain	1.00	%/min	
Depth within Sample	-	m	Cell Pressure	40	kPa	
Length	99.98	mm	Axial Strain at Failure	5.5	%	
Diameter	49.80	mm	Deviator Stress, (σv-σh)	136	kPa	
Length Prior to Shearing	99.98	mm	Undrained Shear Strength, cu	68	kPa	½(σv-σh)
Bulk Density	1.85	Mg/m3	Mode of Failure	Brittle		
Initial Water Content	34.8	%	Membrane Thickness	0.24	mm	
Final Water Content	33.0	%	Membrane Correction	1.53	kPa	
Dry Density	1.37	Mg/m3				

Deviator Stress v Axial Strain

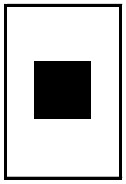


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects.

Remarks:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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Date Reported: 18/11/2025

GF 463.6

TEST CERTIFICATE

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

Tested in Accordance with: BS EN ISO 17982-8:2018,
BS 1377-2 Cl. 28:2022

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056500-1
		Date Sampled:	01/10/2025
		Date Received:	06/10/2025
Contact:	Tim Stempt	Date Tested:	17/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

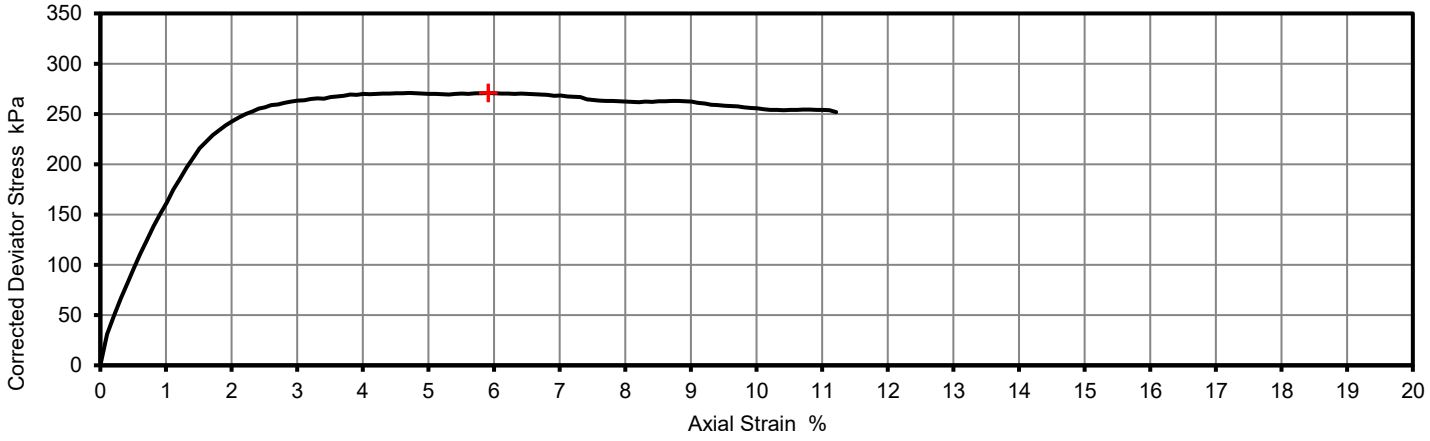
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

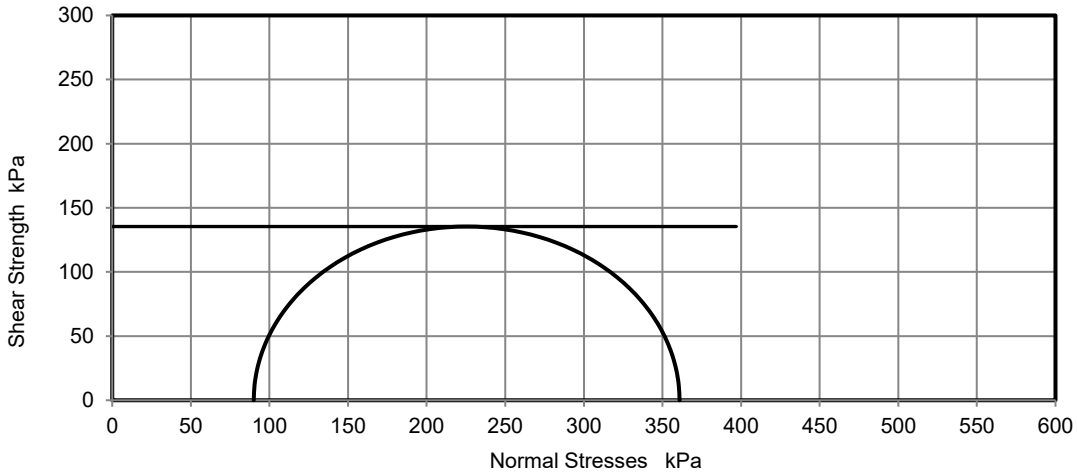
Laboratory Reference:	720394	Depth Top [m]:	4.50
Hole No.:	BH4	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	U
Sample Description:	Light brown silty CLAY		
Sample Preparation:	Sample prepared in accordance with BS EN ISO 17892-8: 2018 Clause 6.2.		

Test Number	1		Rate of Strain	1.00	%/min
Depth within Sample	-	m	Cell Pressure	90	kPa
Length	99.80	mm	Axial Strain at Failure	5.9	%
Diameter	50.09	mm	Deviator Stress, (σv-σh)	271	kPa
Length Prior to Shearing	99.80	mm	Undrained Shear Strength, cu	135	kPa ½(σv-σh)
Bulk Density	1.91	Mg/m3	Mode of Failure	Brittle	
Initial Water Content	27.9	%	Membrane Thickness	0.25	mm
Final Water Content	27.3	%	Membrane Correction	1.71	kPa
Dry Density	1.49	Mg/m3			

Deviator Stress v Axial Strain

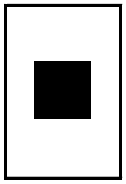


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects.

Remarks:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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Date Reported: 18/11/2025

GF 463.6

TEST CERTIFICATE

DIRECT SHEAR TEST USING THE SHEARBOX

Tested in Accordance with: BS EN ISO 17892-10:2018,
BS 1377-2 Cl. 25.2:2022

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056501-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Tim Stempt	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720396	Depth Top [m]:	2.00
Hole No.:	MTP106 / CBR5	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		

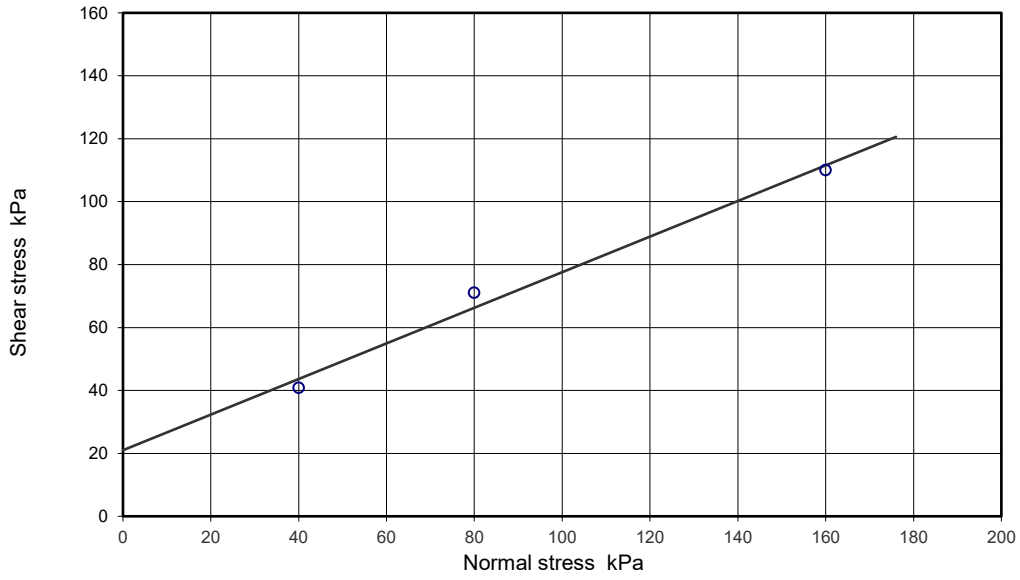
Preparation Details: Sample carried out on lump

Specimen Details	Test No.	1	2	3				
Initial	Height	20.0	20.0	20.0				mm
	Length	60.0	60.0	60.0				mm
	Breadth	60.0	60.0	60.0				mm
	Particle Density - (assumed)	2.65	2.65	2.65				Mg/m³
	Bulk Density	1.67	1.67	1.67				Mg/m³
	Water Content	42.4	42.4	42.4				%
	Dry density	1.17	1.17	1.17				Mg/m³
	Voids ratio	1.265	1.265	1.265				
	Degree of Saturation	89	89	89				%
Consolidation	Consolidation / Normal Stress applied	40	80	160				kPa
	Change in height during consolidation	0.773	2.813	3.387				mm
	Voids ratio after consolidation	1.177	0.946	0.881				
After test	Final Water content	48.8	45.9	41.4				%

Shearing stage(s)

Rate of displacement	Peak	1.000	1.000	1.000				mm/min
	Residual							mm/min
Peak values, (o)	Relative horizontal displacement	8.52	9.01	8.46				mm
	Shear stress	40.8	71.0	110.0				kPa
	Vertical Movement at peak shear stress	1.53	3.92	4.04				mm
Residual values, (x)	No. of traverses (including peak run)	1	1	1				
	Relative horizontal displacement							mm
	Shear stress							kPa
	Vertical movement at residual shear stress							mm

Total test time 1.5 days



Shear Strength Parameters

Peak strength, (o)		Regression	Manual
c '	kPa	21.00	-
Ø '	degrees	29.5	-

Residual strength, (x)

c 'R	kPa	not assessed	-
Ø 'R	degrees	not assessed	-

Remarks: Test carried out with rapid rate of displacement as per client request.

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DIRECT SHEAR TEST USING THE SHEARBOX

Tested in Accordance with: BS EN ISO 17892-10:2018, BS 1377-2 Cl. 25.2:2022

4041

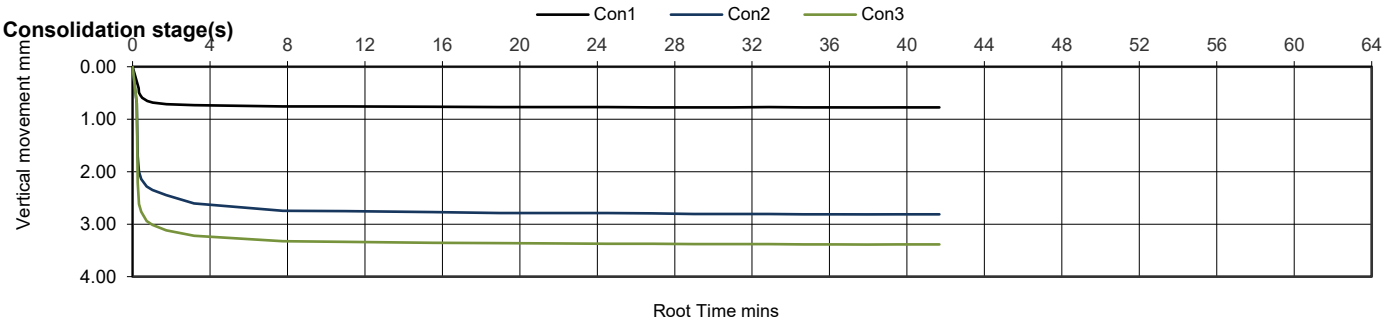
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056501-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Tim Stempt	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

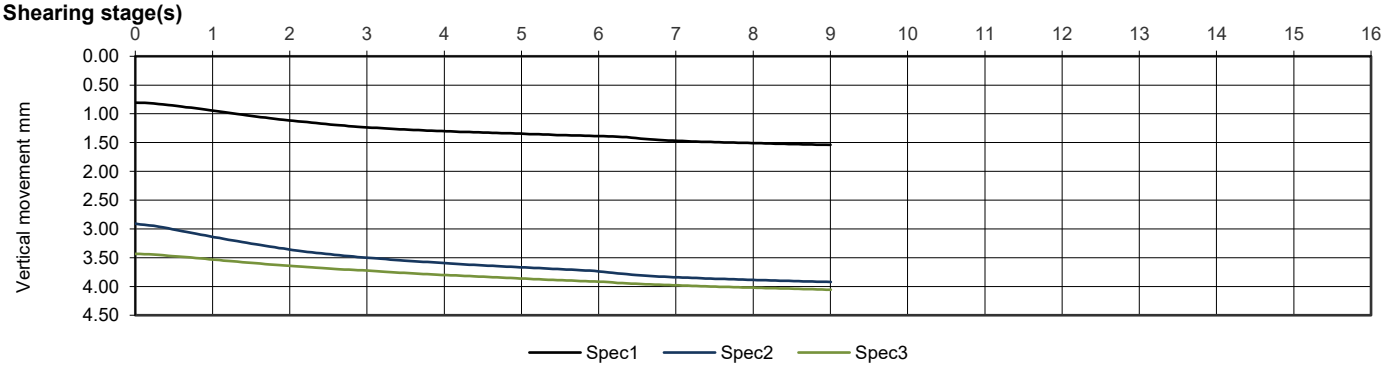
Test Results:

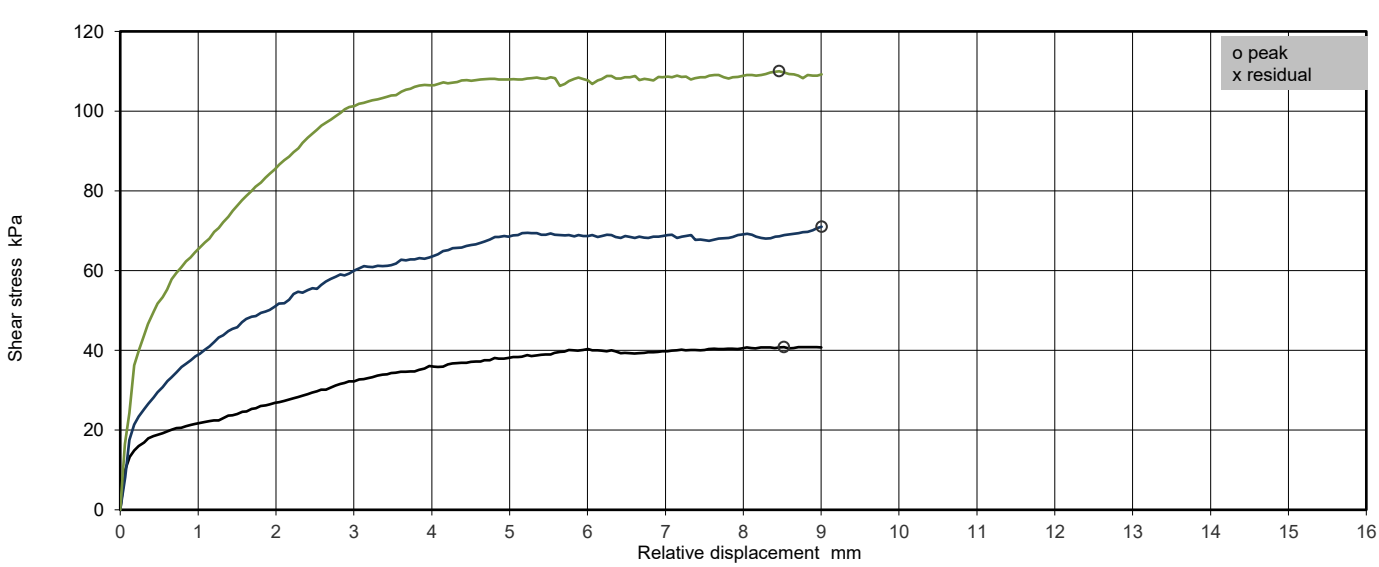
Laboratory Reference:	720396	Depth Top [m]:	2.00
Hole No.:	MTP106 / CBR5	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		

Consolidation stage(s)



Shearing stage(s)





Remarks: Test carried out with rapid rate of displacement as per client request

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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Date Reported: 31/10/2025

GF 442.7

TEST CERTIFICATE

DIRECT SHEAR TEST USING THE SHEARBOX

Tested in Accordance with: BS EN ISO 17892-10:2018, BS 1377-2 Cl. 25.2:2022

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056501-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Tim Stempt	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720397	Depth Top [m]:	3.10
Hole No.:	MTP106 / CBR5	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		

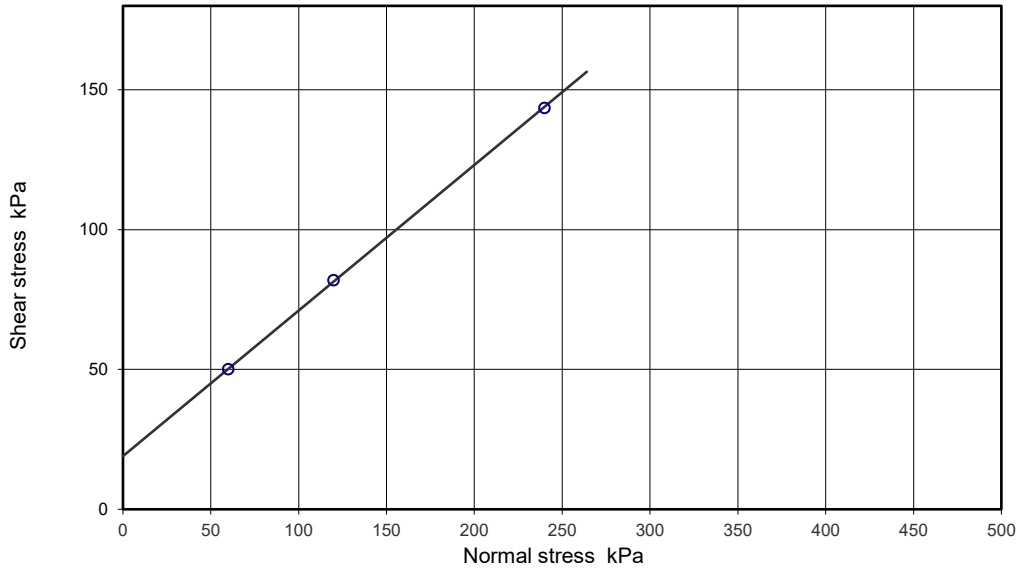
Preparation Details: Sample carried out on lump

Specimen Details	Test No.	1	2	3				
Initial	Height	20.0	20.0	20.0				mm
	Length	60.0	60.0	60.0				mm
	Breadth	60.0	60.0	60.0				mm
	Particle Density - (assumed)	2.65	2.65	2.65				Mg/m³
	Bulk Density	1.70	1.70	1.70				Mg/m³
	Water Content	28.1	28.1	28.1				%
	Dry density	1.33	1.33	1.33				Mg/m³
	Voids ratio	0.992	0.992	0.992				
	Degree of Saturation	75	75	75				%
Consolidation	Consolidation / Normal Stress applied	60	120	240				kPa
	Change in height during consolidation	1.556	2.566	2.643				mm
	Voids ratio after consolidation	0.837	0.736	0.729				
After test	Final Water content	41.3	37.9	35.8				%

Shearing stage(s)

Rate of displacement	Peak	1.000	1.000	1.000				mm/min
	Residual							mm/min
Peak values, (o)	Relative horizontal displacement	9.00	8.89	7.99				mm
	Shear stress	50.1	81.9	143.4				kPa
	Vertical Movement at peak shear stress	1.97	3.26	3.63				mm
Residual values, (x)	No. of traverses (including peak run)	1	1	1				
	Relative horizontal displacement							mm
	Shear stress							kPa
	Vertical movement at residual shear stress							mm

Total test time 1.5 days



Shear Strength Parameters

Peak strength, (o)		Regression	Manual
c '	kPa	19.00	-
Ø '	degrees	27.5	-

Residual strength, (x)

c 'R	kPa	not assessed	-
Ø 'R	degrees	not assessed	-

Remarks: Test carried out with rapid rate of displacement as per client request. Sample was slightly dry.

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DIRECT SHEAR TEST USING THE SHEARBOX

Tested in Accordance with: BS EN ISO 17892-10:2018, BS 1377-2 Cl. 25.2:2022

4041

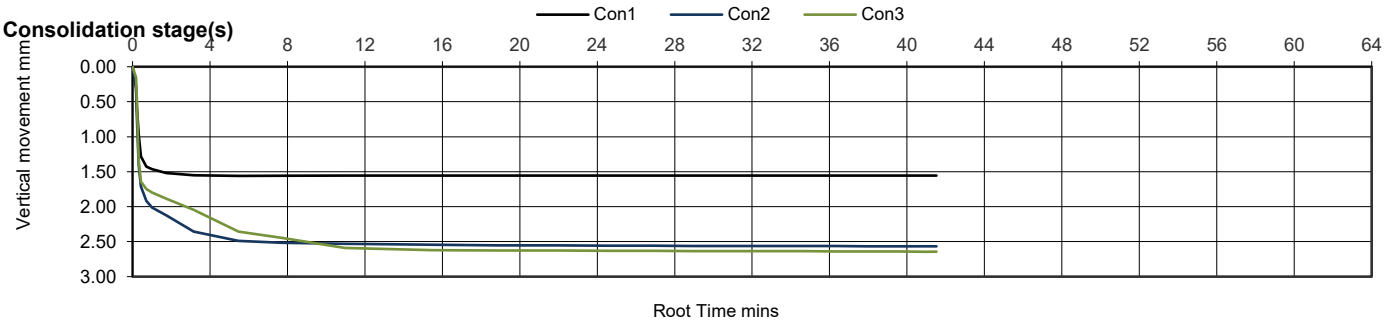
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056501-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Tim Stempt	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

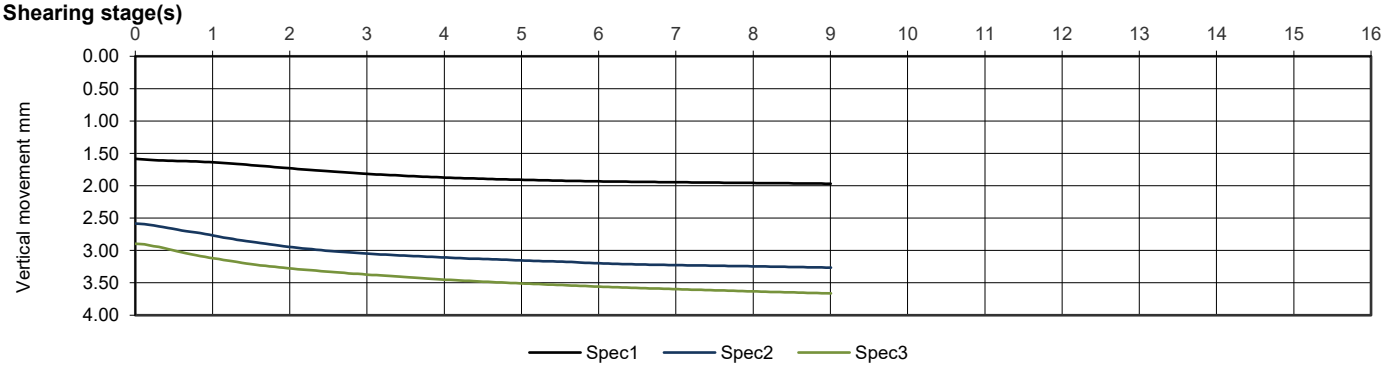
Test Results:

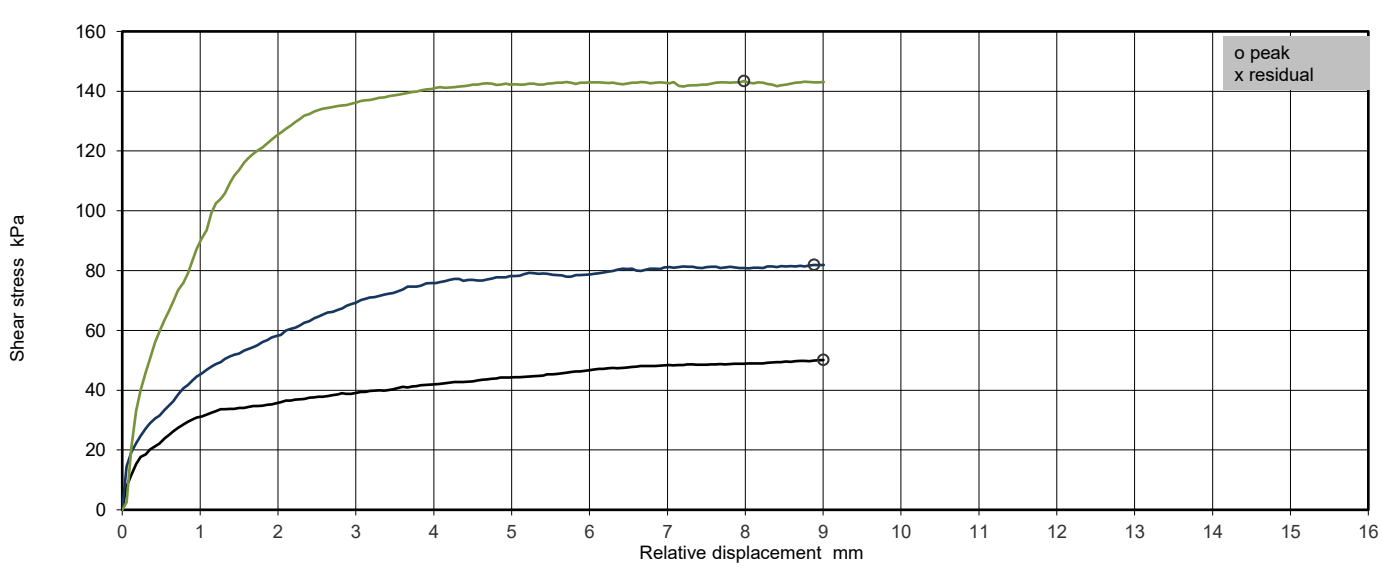
Laboratory Reference:	720397	Depth Top [m]:	3.10
Hole No.:	MTP106 / CBR5	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		

Consolidation stage(s)



Shearing stage(s)





Remarks: Test carried out with rapid rate of displacement as per client request. Sample was slightly dry.

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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Date Reported: 31/10/2025

GF 442.7

TEST CERTIFICATE

DIRECT SHEAR TEST USING THE SHEARBOX
Tested in Accordance with: BS EN ISO 17892-10:2018,
BS 1377-2 Cl. 25.2:2022

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056501-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Tim Stempt	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

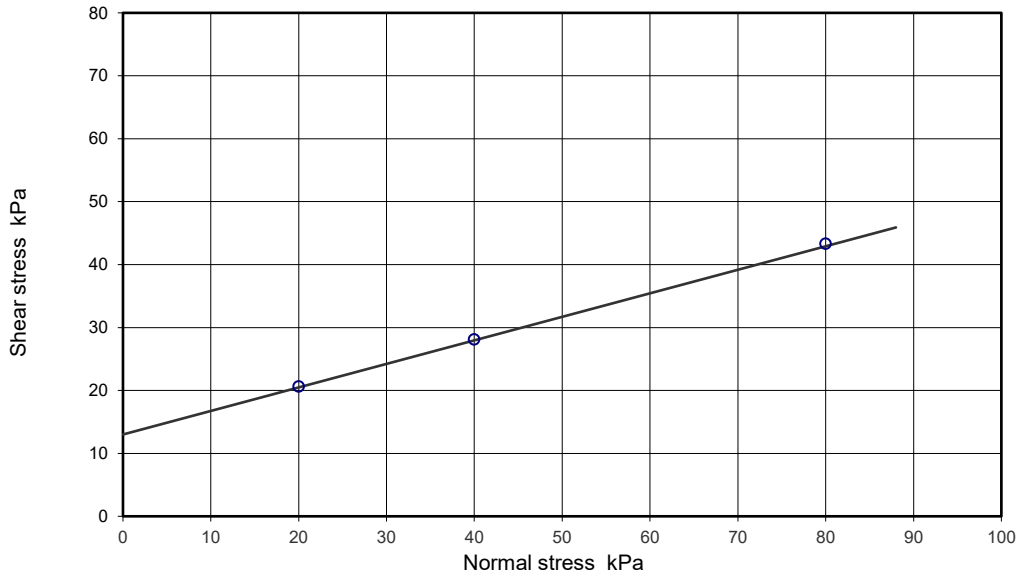
Laboratory Reference:	720398	Depth Top [m]:	1.00
Hole No.:	MTP107 / CBR03	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown slightly sandy CLAY		
Preparation Details	Sample carried out on lump		

Specimen Details	Test No.	1	2	3				
Initial	Height	20.2	20.2	20.2				mm
	Length	60.0	60.0	60.0				mm
	Breadth	60.0	60.0	60.0				mm
	Particle Density - (assumed)	2.65	2.65	2.65				Mg/m³
	Bulk Density	1.62	1.62	1.62				Mg/m³
	Water Content	42.9	42.9	42.9				%
	Dry density	1.13	1.13	1.13				Mg/m³
	Voids ratio	1.345	1.345	1.345				
	Degree of Saturation	85	85	85				%
Consolidation	Consolidation / Normal Stress applied	20	40	80				kPa
	Change in height during consolidation	0.102	0.818	0.730				mm
	Voids ratio after consolidation	1.333	1.250	1.260				
After test	Final Water content	53.2	51.3	49.0				%

Shearing stage(s)

Rate of displacement	Peak	1.000	1.000	1.000				mm/min
	Residual							mm/min
Peak values, (o)	Relative horizontal displacement	4.21	4.21	4.27				mm
	Shear stress	20.6	28.1	43.3				kPa
	Vertical Movement at peak shear stress	0.03	1.06	1.24				mm
Residual values, (x)	No. of traverses (including peak run)	1	1	1				
	Relative horizontal displacement							mm
	Shear stress							kPa
	Vertical movement at residual shear stress							mm

Total test time 1.5 days



Shear Strength Parameters

Peak strength, (o)		Regression	Manual
c '	kPa	13.00	-
Ø '	degrees	20.5	-

Residual strength, (x)

c 'R	kPa	not assessed	-
Ø 'R	degrees	not assessed	-

Remarks: Test carried out with rapid rate of displacement as per client request. Stage 1 - swelling

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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i2 Analytical Ltd, Unit 8, Harrowden Road, Brackmills Industrial Estate, Northampton, NN4 7EB

TEST CERTIFICATE

DIRECT SHEAR TEST USING THE SHEARBOX
Tested in Accordance with: BS EN ISO 17892-10:2018,
BS 1377-2 Cl. 25.2:2022

4041

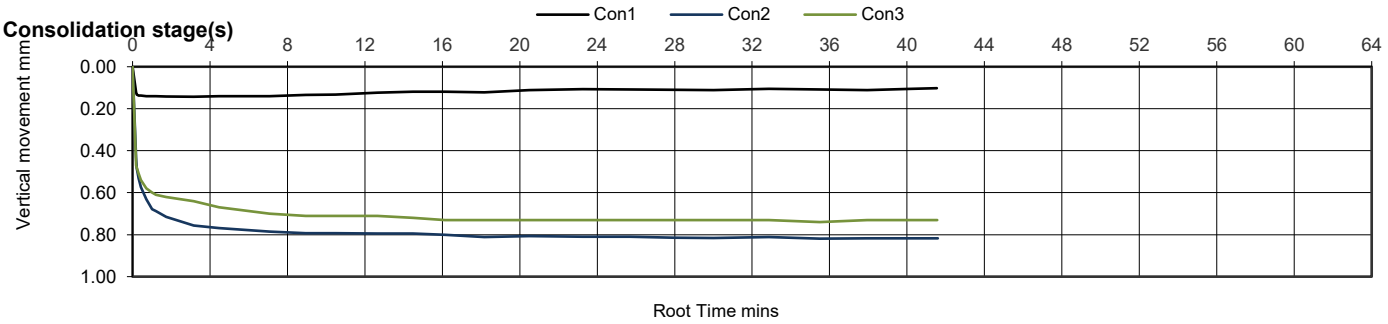
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056501-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Tim Stempt	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

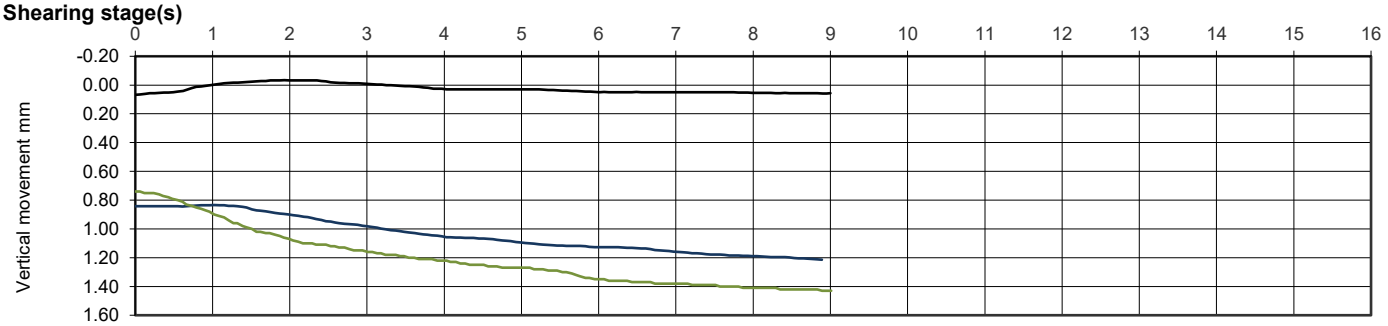
Test Results:

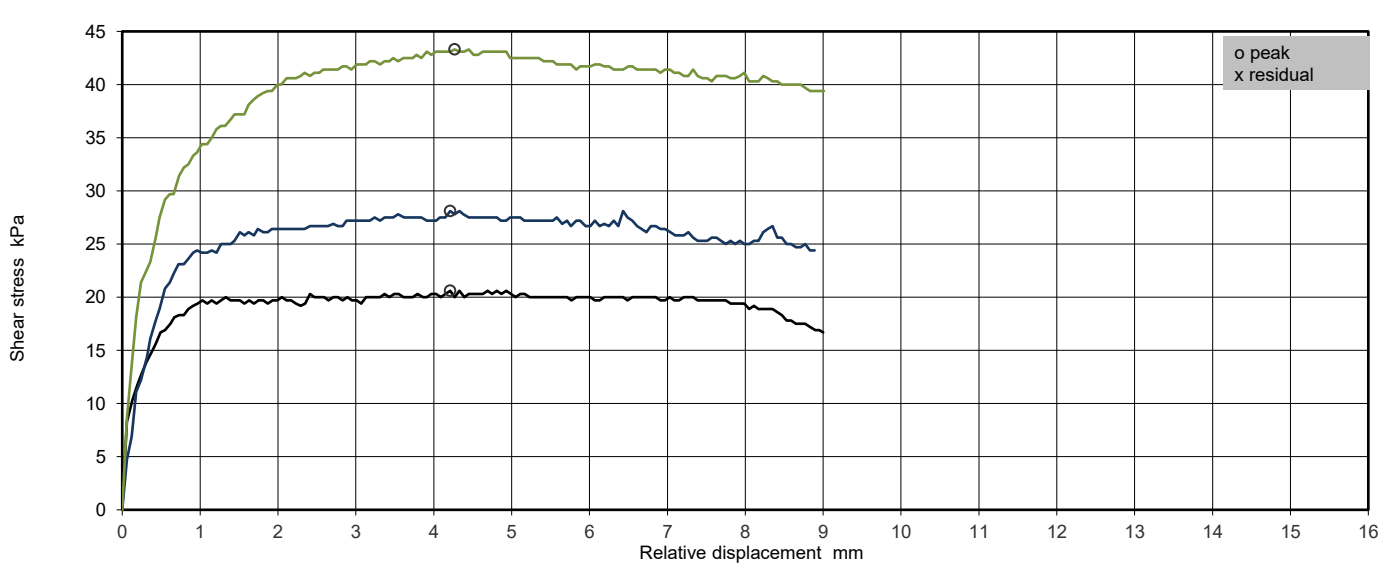
Laboratory Reference:	720398	Depth Top [m]:	1.00
Hole No.:	MTP107 / CBR03	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown slightly sandy CLAY		

Consolidation stage(s)



Shearing stage(s)





Remarks: Test carried out with rapid rate of displacement as per client request. Stage 1 - swelling

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Date Reported: 31/10/2025

GF 442.7

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Analytical Report Number : 25-056502

Project / Site name:	Glebe Farm	**Samples received on:**	06/10/2025
Your job number:	21949AH	**Samples instructed on/ Analysis started on:**	17/10/2025
Your order number:	25-2-FDO-LABS	**Analysis completed by:**	31/10/2025
Report Issue Number:	1	**Report issued on:**	31/10/2025
Samples Analysed:	16 soil samples		



Signed:

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 25-056502
Project / Site name: Glebe Farm
Your Order No: 25-2-FDO-LABS

Lab Sample Number				720399	720400	720401	720402	720403
Sample Reference				BH01	BH01	BH01	BH01	BH2
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				2.00	7.00	10.00	12.00	4.00
Date Sampled				29/09/2025	29/09/2025	29/09/2025	29/09/2025	30/09/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	13	18	16	13
Total mass of sample received	kg	0.1	NONE	0.7	1	1.6	1.1	2
General Inorganics								
pH (L099)	pH Units	N/A	MCERTS	8.2	8.1	8.1	7.9	8
Total Sulphate as SO_4	%	0.005	MCERTS	0.065	0.028	0.095	0.088	0.116
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	54	59	880	580	860
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	26.7	29.5	439	290	431
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	3.2	1.3	6.4	10	12
Total Sulphur	mg/kg	50	MCERTS	220	97	4600	2100	2900
Total Sulphur	%	0.005	MCERTS	0.022	0.01	0.459	0.207	0.29
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Heavy Metals / Metalloids								
Magnesium (leachate equivalent)	mg/l	2.5	NONE	3.3	< 2.5	9.7	9.9	11

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 25-056502
Project / Site name: Glebe Farm
Your Order No: 25-2-FDO-LABS

Lab Sample Number				720404	720405	720406	720407	720408
Sample Reference				BH2	BH2	BH3	BH3	BH3
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				8.00	14.00	6.00	8.00	16.00
Date Sampled				30/09/2025	30/09/2025	30/09/2025	30/09/2025	30/09/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	32	23	14	17	22
Total mass of sample received	kg	0.1	NONE	0.7	1.5	0.9	0.5	0.9
General Inorganics								
pH (L099)	pH Units	N/A	MCERTS	8	8.1	8	8	7.8
Total Sulphate as SO_4	%	0.005	MCERTS	0.074	0.087	0.042	0.062	0.233
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	420	890	47	450	2200
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	209	446	23.4	225	1080
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	49	9.4	1.2	1.2	38
Total Sulphur	mg/kg	50	MCERTS	1200	4800	200	1300	4500
Total Sulphur	%	0.005	MCERTS	0.121	0.477	0.02	0.129	0.448
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Heavy Metals / Metalloids								
Magnesium (leachate equivalent)	mg/l	2.5	NONE	6.4	20	3.1	7.7	62

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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Analytical Report Number: 25-056502
Project / Site name: Glebe Farm
Your Order No: 25-2-FDO-LABS

Lab Sample Number				720409	720410	720411	720412	720413
Sample Reference				BH3	BH4	BH4	BH4	BH4
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				19.00	4.80	8.00	11.00	14.00
Date Sampled				30/09/2025	01/10/2025	01/10/2025	01/10/2025	01/10/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	23	13	14	10	20
Total mass of sample received	kg	0.1	NONE	1	0.9	0.3	0.9	1.1
General Inorganics								
pH (L099)	pH Units	N/A	MCERTS	8.4	8.4	8.2	7.8	7.8
Total Sulphate as SO_4	%	0.005	MCERTS	0.082	0.025	0.08	0.206	0.208
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	700	31	630	1900	2100
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	348	15.2	317	967	1040
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	6.2	2.9	3.5	27	23
Total Sulphur	mg/kg	50	MCERTS	3700	96	1400	4600	3900
Total Sulphur	%	0.005	MCERTS	0.368	0.01	0.137	0.46	0.387
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Heavy Metals / Metalloids								
Magnesium (leachate equivalent)	mg/l	2.5	NONE	25	2.6	8.1	23	51

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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Analytical Report Number: 25-056502
Project / Site name: Glebe Farm
Your Order No: 25-2-FDO-LABS

Lab Sample Number				720414
Sample Reference				BH4
Sample Number				None Supplied
Water Matrix				N/A
Depth (m)				15.50
Date Sampled				01/10/2025
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	19
Total mass of sample received	kg	0.1	NONE	1.1

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.8
Total Sulphate as SO_4	%	0.005	MCERTS	0.257
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	3000
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	1520
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	59
Total Sulphur	mg/kg	50	MCERTS	4600
Total Sulphur	%	0.005	MCERTS	0.464
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	48

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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Analytical Report Number : 25-056502
Project / Site name: Glebe Farm

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
720399	BH01	None Supplied	2	Brown clay and sand
720400	BH01	None Supplied	7	Brown clay and sand
720401	BH01	None Supplied	10	Brown clay with gravel
720402	BH01	None Supplied	12	Brown clay and sand
720403	BH2	None Supplied	4	Brown clay and sand
720404	BH2	None Supplied	8	Brown clay
720405	BH2	None Supplied	14	Brown clay and sand
720406	BH3	None Supplied	6	Brown clay
720407	BH3	None Supplied	8	Brown clay
720408	BH3	None Supplied	16	Brown clay
720409	BH3	None Supplied	19	Brown clay with gravel
720410	BH4	None Supplied	4.8	Brown clay and sand
720411	BH4	None Supplied	8	Brown clay and sand with gravel
720412	BH4	None Supplied	11	Brown clay
720413	BH4	None Supplied	14	Brown clay
720414	BH4	None Supplied	15.5	Brown clay

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Analytical Report Number : 25-056502
Project / Site name: Glebe Farm

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction	L078-PL	W	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

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Analytical Report Number : 25-056502
Project / Site name: Glebe Farm

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
BH01	N/A	S	720399	c	Chloride, water soluble, in soil	L082B	c
BH01	N/A	S	720399	c	pH in soil (automated)	L099-PL	c
BH01	N/A	S	720400	c	Chloride, water soluble, in soil	L082B	c
BH01	N/A	S	720400	c	pH in soil (automated)	L099-PL	c
BH01	N/A	S	720401	c	Chloride, water soluble, in soil	L082B	c
BH01	N/A	S	720401	c	pH in soil (automated)	L099-PL	c
BH01	N/A	S	720402	c	Chloride, water soluble, in soil	L082B	c
BH01	N/A	S	720402	c	pH in soil (automated)	L099-PL	c
BH2	N/A	S	720403	c	pH in soil (automated)	L099-PL	c
BH2	N/A	S	720404	c	pH in soil (automated)	L099-PL	c
BH2	N/A	S	720405	c	pH in soil (automated)	L099-PL	c
BH3	N/A	S	720406	c	pH in soil (automated)	L099-PL	c
BH3	N/A	S	720407	c	pH in soil (automated)	L099-PL	c
BH3	N/A	S	720408	c	pH in soil (automated)	L099-PL	c
BH3	N/A	S	720409	c	pH in soil (automated)	L099-PL	c
BH4	N/A	S	720410	c	pH in soil (automated)	L099-PL	c
BH4	N/A	S	720411	c	pH in soil (automated)	L099-PL	c
BH4	N/A	S	720412	c	pH in soil (automated)	L099-PL	c
BH4	N/A	S	720413	c	pH in soil (automated)	L099-PL	c
BH4	N/A	S	720414	c	pH in soil (automated)	L099-PL	c

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022,cl 5.2 and 6

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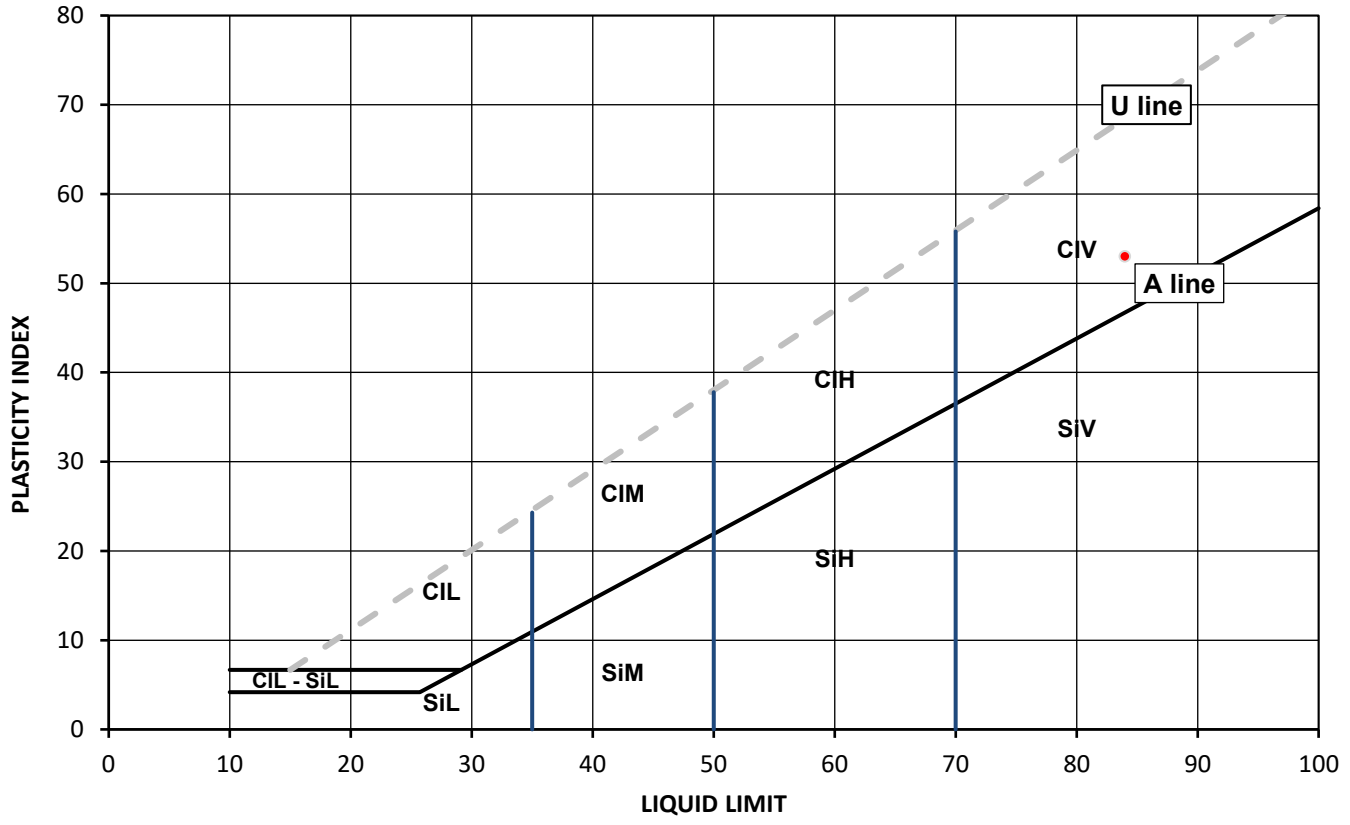
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	27/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720608	Depth Top [m]:	1.00
Hole No.:	BH05	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Greyish brown CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
32.4	84	31	53	0.02	0.98	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 337.16

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022,cl 5.2 and 6

4041

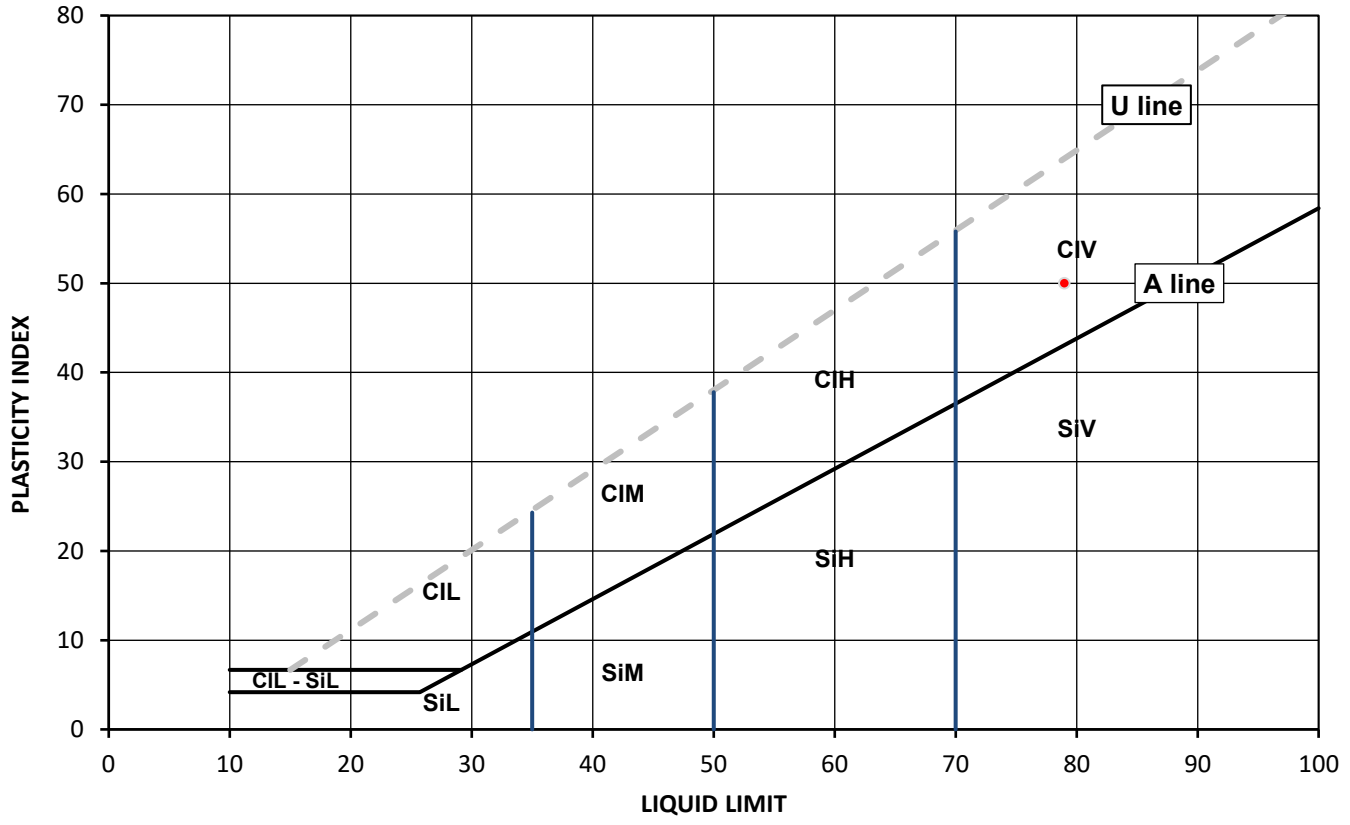
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	24/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720610	Depth Top [m]:	2.90
Hole No.:	BH05	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Light brownish grey CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
24.4	79	29	50	-0.10	1.10	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 337.16

i2 Analytical Ltd, Unit 8, Harrowden Road, Brackmills Industrial Estate, Northampton, NN4 7EB

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022,cl 5.2 and 6

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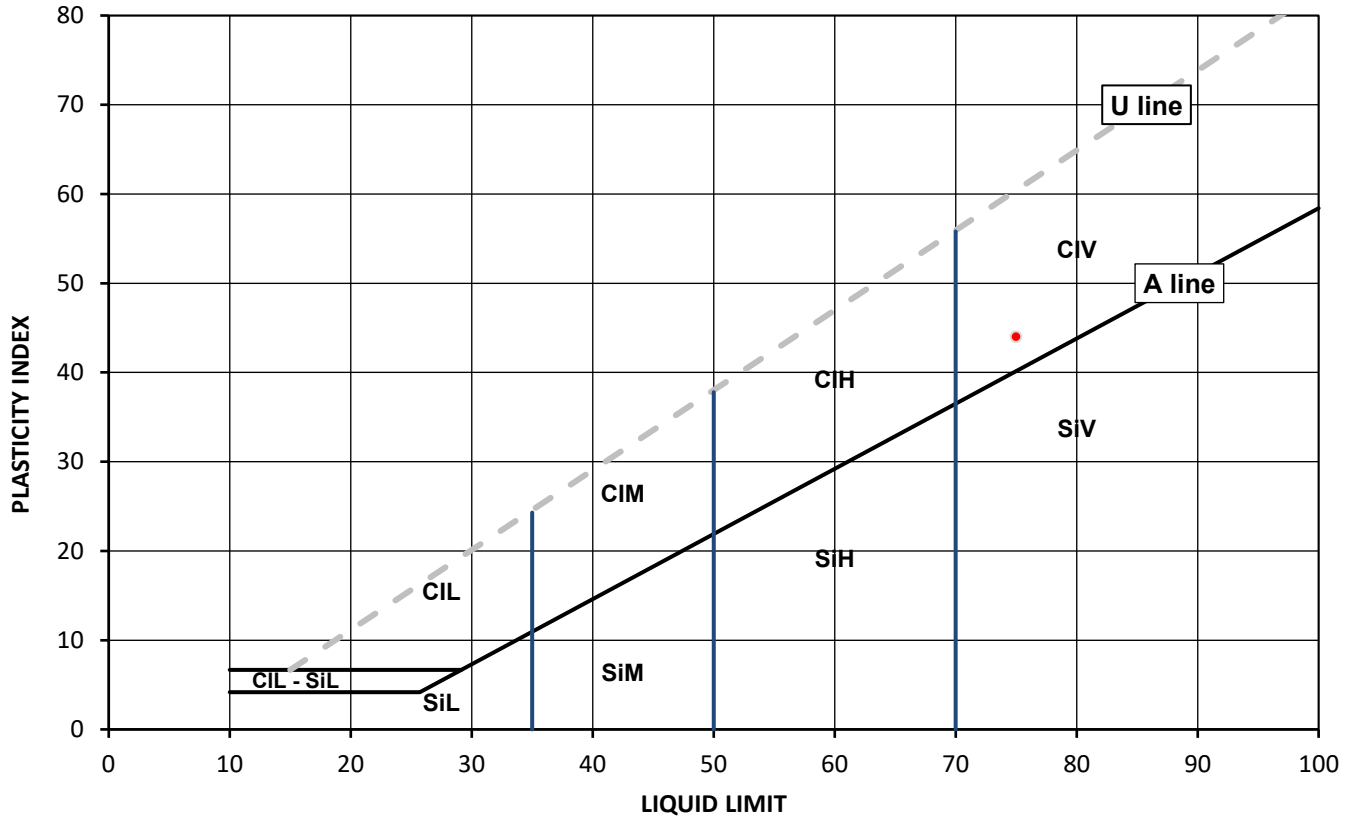
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	24/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720611	Depth Top [m]:	4.00
Hole No.:	BH05	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Light brownish grey CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
26.3	75	31	44	-0.11	1.11	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 337.16

i2 Analytical Ltd, Unit 8, Harrowden Road, Brackmills Industrial Estate, Northampton, NN4 7EB

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022,cl 5.2 and 6

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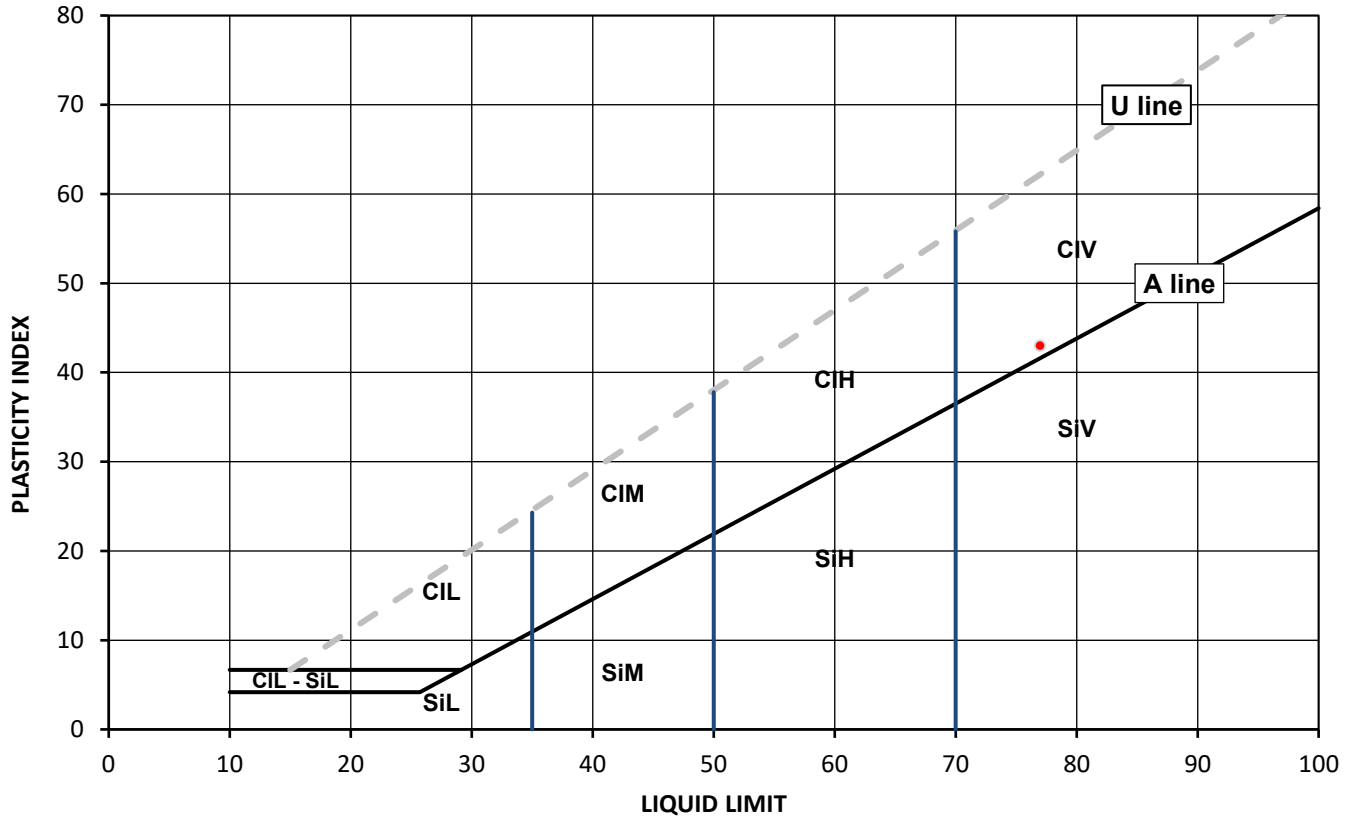
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	24/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720613	Depth Top [m]:	4.85
Hole No.:	BH05	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Light brownish grey silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
30.6	77	34	43	-0.07	1.07	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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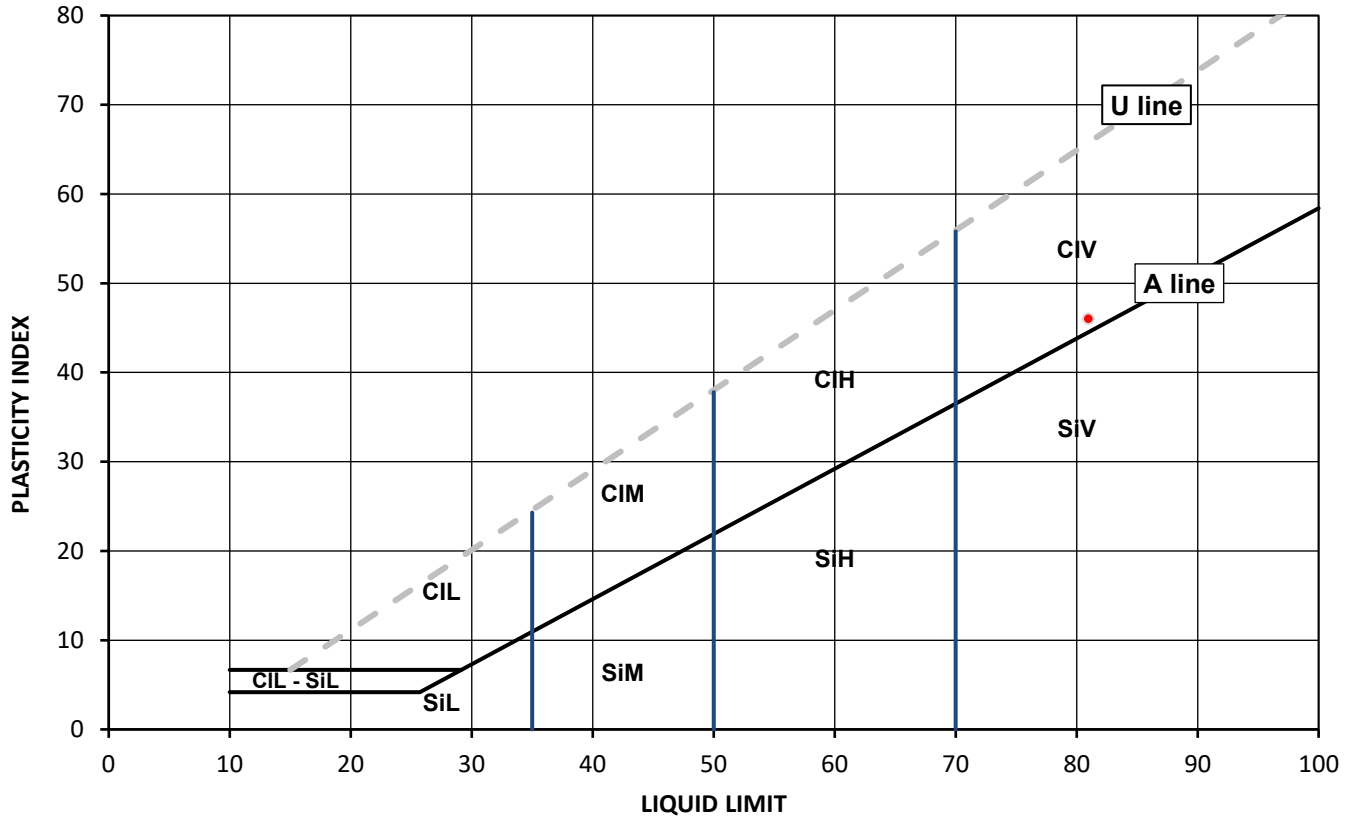
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	03/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	27/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720615	Depth Top [m]:	0.90
Hole No.:	BH06	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown slightly gravelly silty CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
41.5	81	35	46	0.15	0.85	96



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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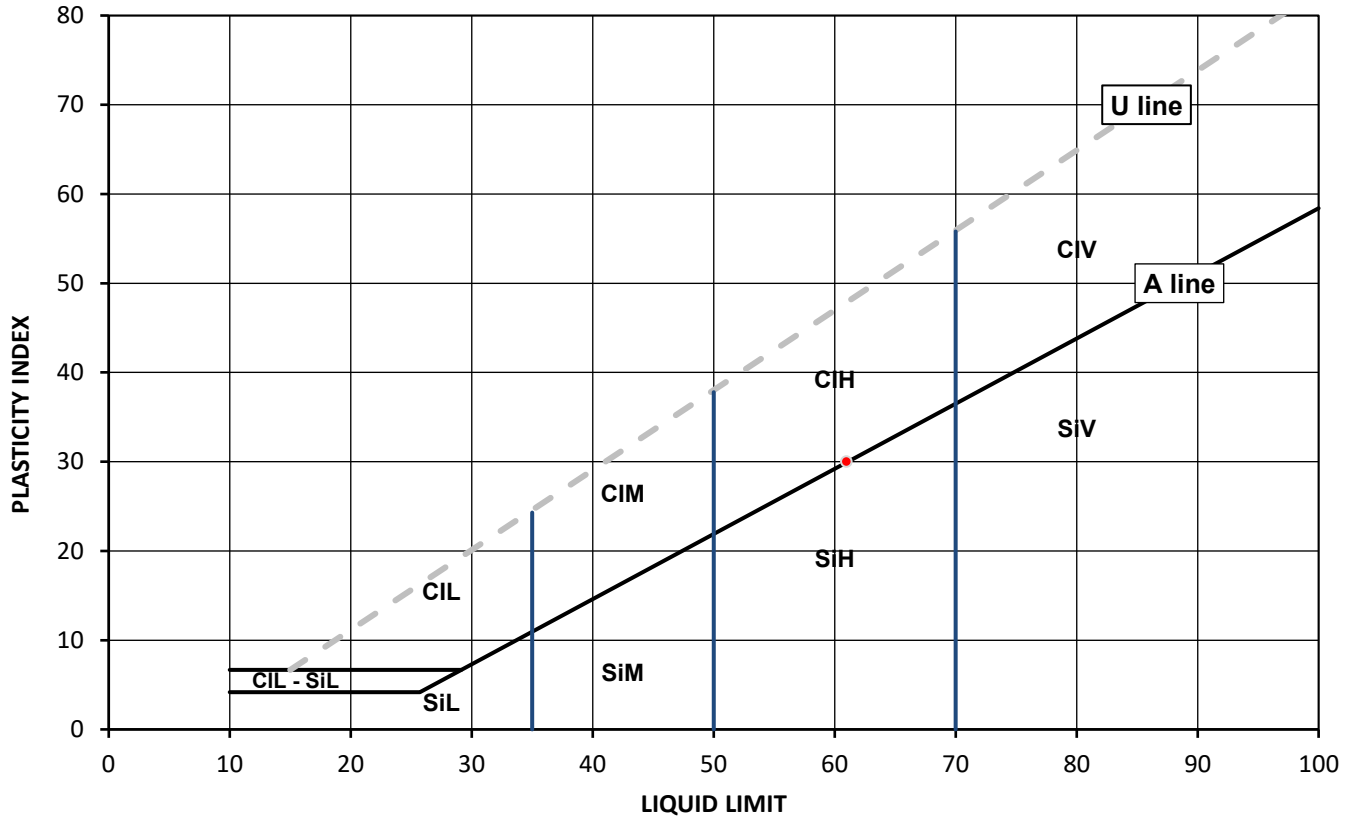
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	03/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	27/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720616	Depth Top [m]:	2.50
Hole No.:	BH06	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Greyish brown gravelly CLAY		
Sample Preparation:	Tested after washing to remove >0.425mm; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
17.6	61	31	30	-0.43	1.43	58



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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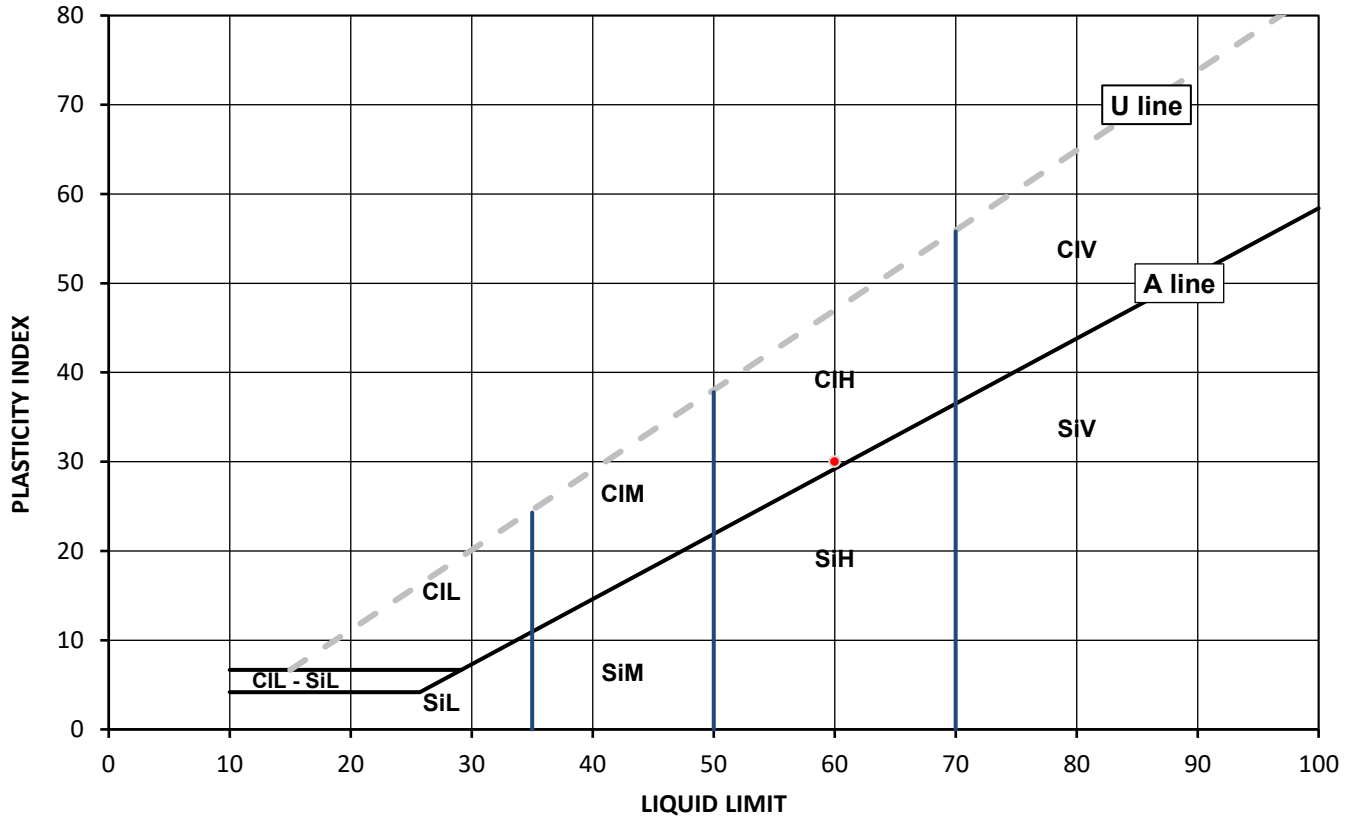
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	03/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	27/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720617	Depth Top [m]:	3.40
Hole No.:	BH06	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Greyish brown gravelly silty CLAY		
Sample Preparation:	Tested after washing to remove >0.425mm; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
31.0	60	30	30	0.03	0.97	64



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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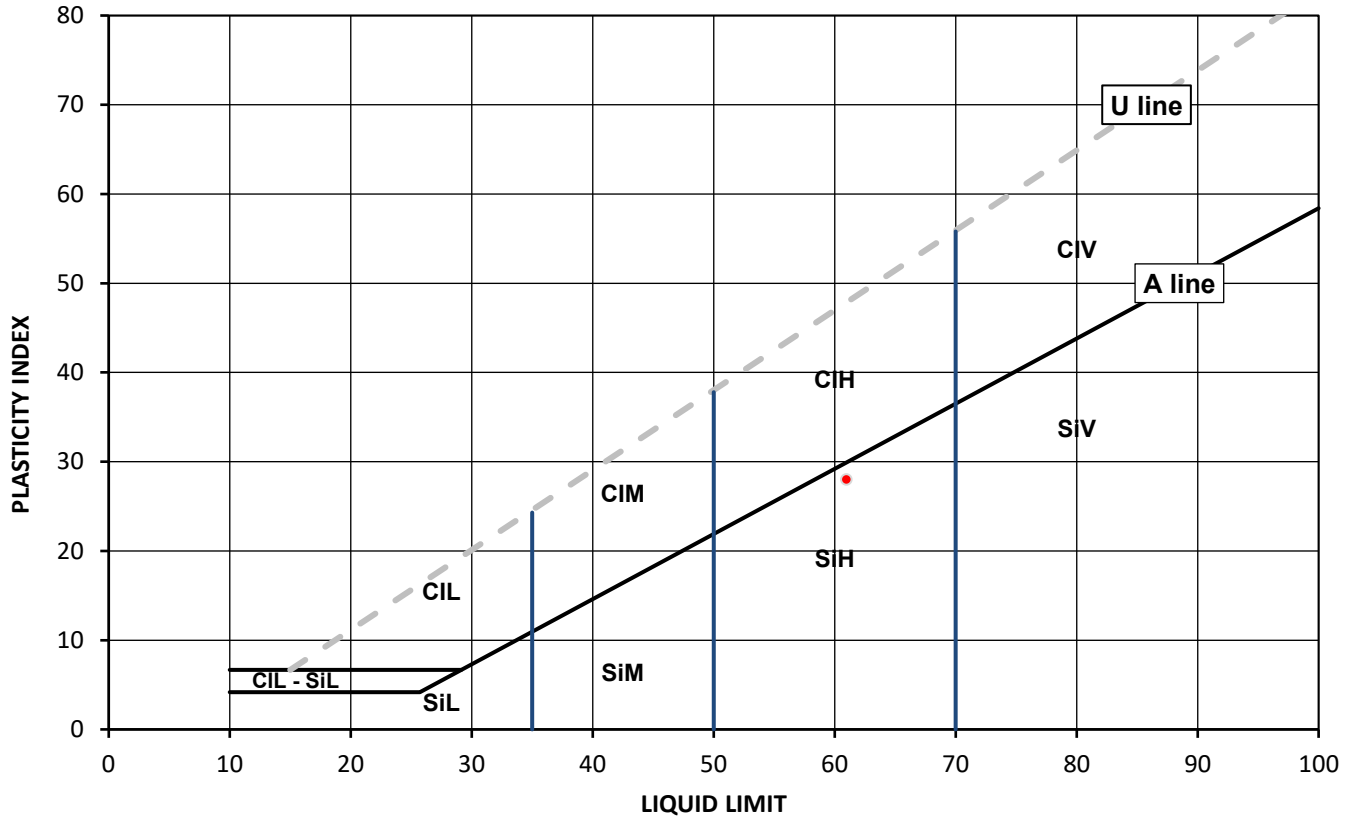
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	03/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	24/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720618	Depth Top [m]:	5.00
Hole No.:	BH06	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Sample Description:	Light brownish grey silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
24.4	61	33	28	-0.32	1.32	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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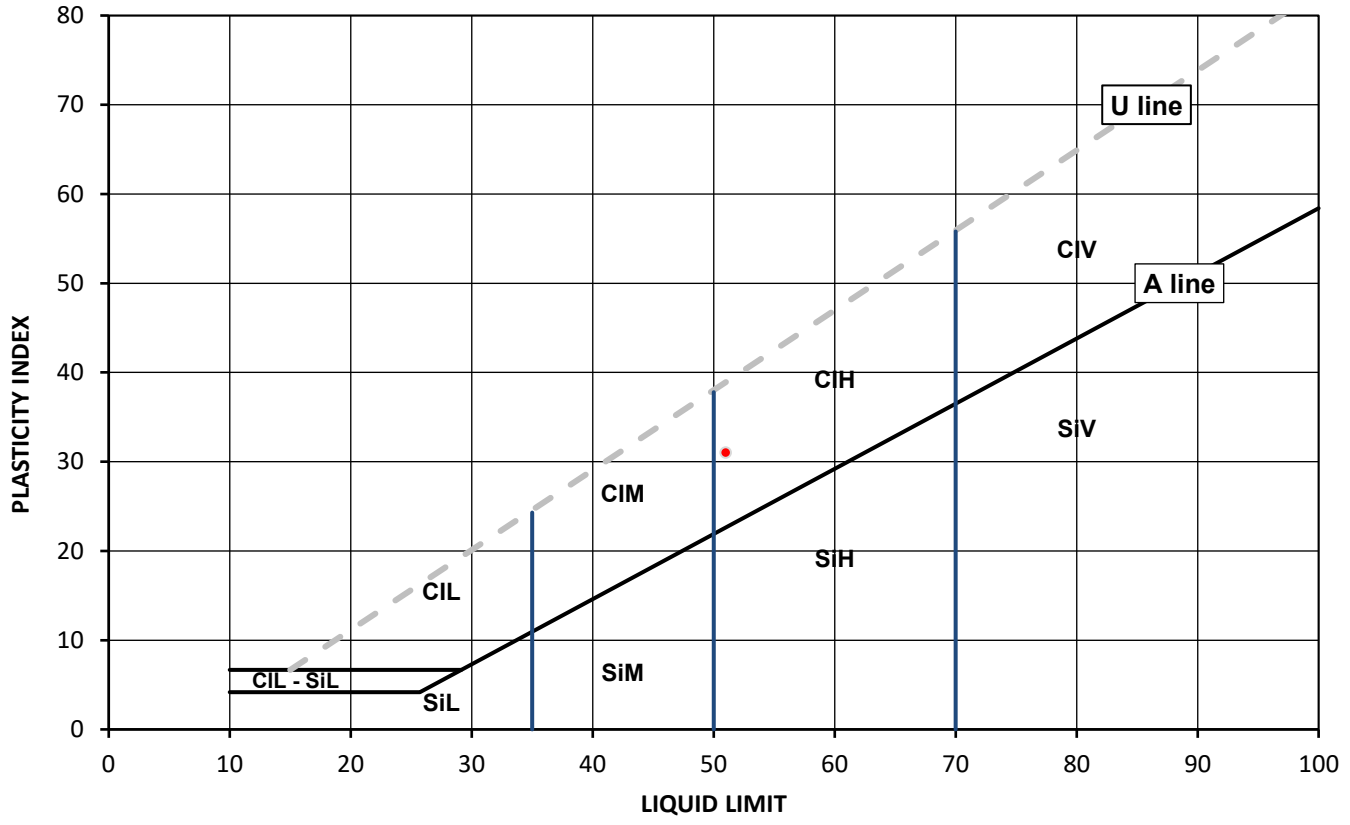
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	27/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720619	Depth Top [m]:	1.00
Hole No.:	MTP101	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Greyish brown slightly sandy CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
25.5	51	20	31	0.19	0.81	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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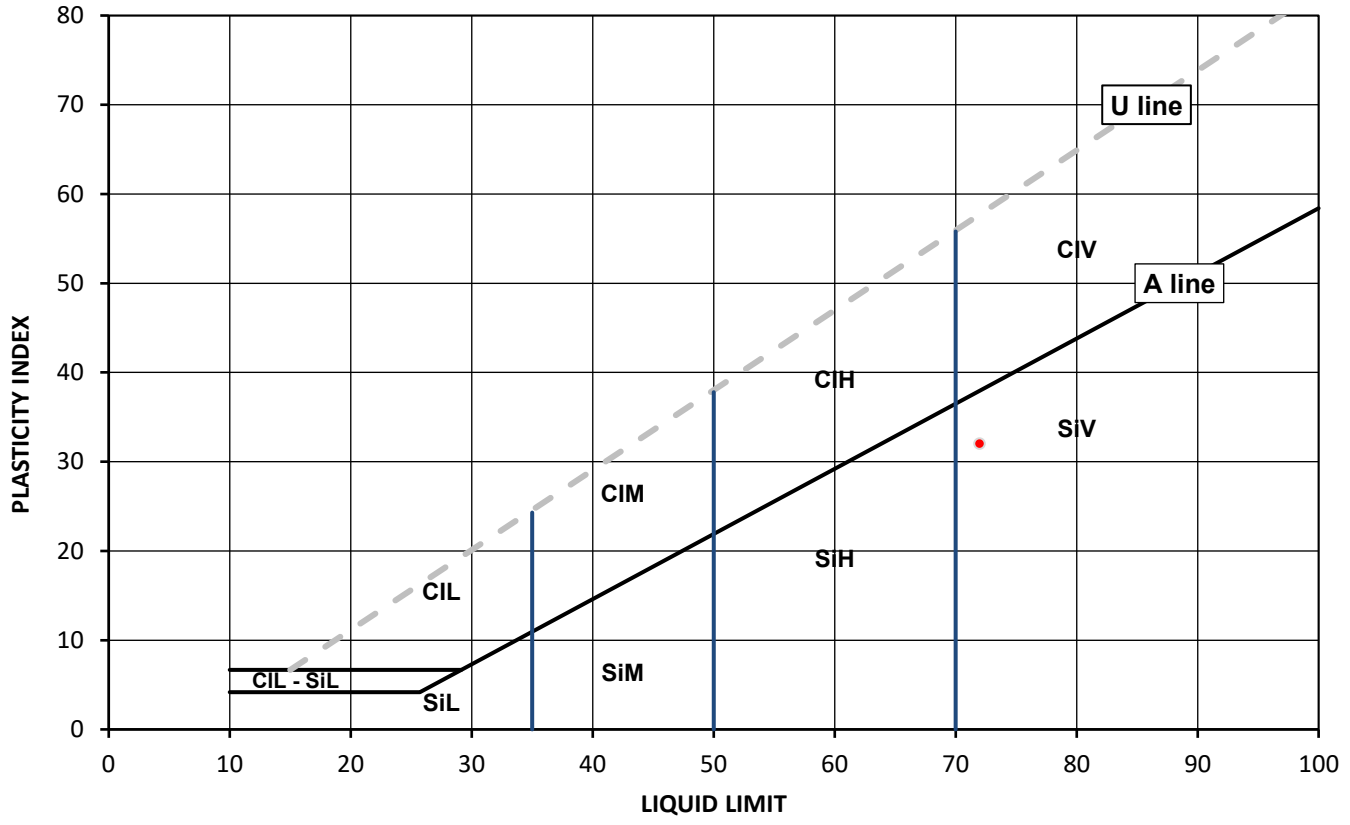
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	27/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720620	Depth Top [m]:	2.50
Hole No.:	MTP101	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Greyish brown silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
47.0	72	40	32	0.22	0.78	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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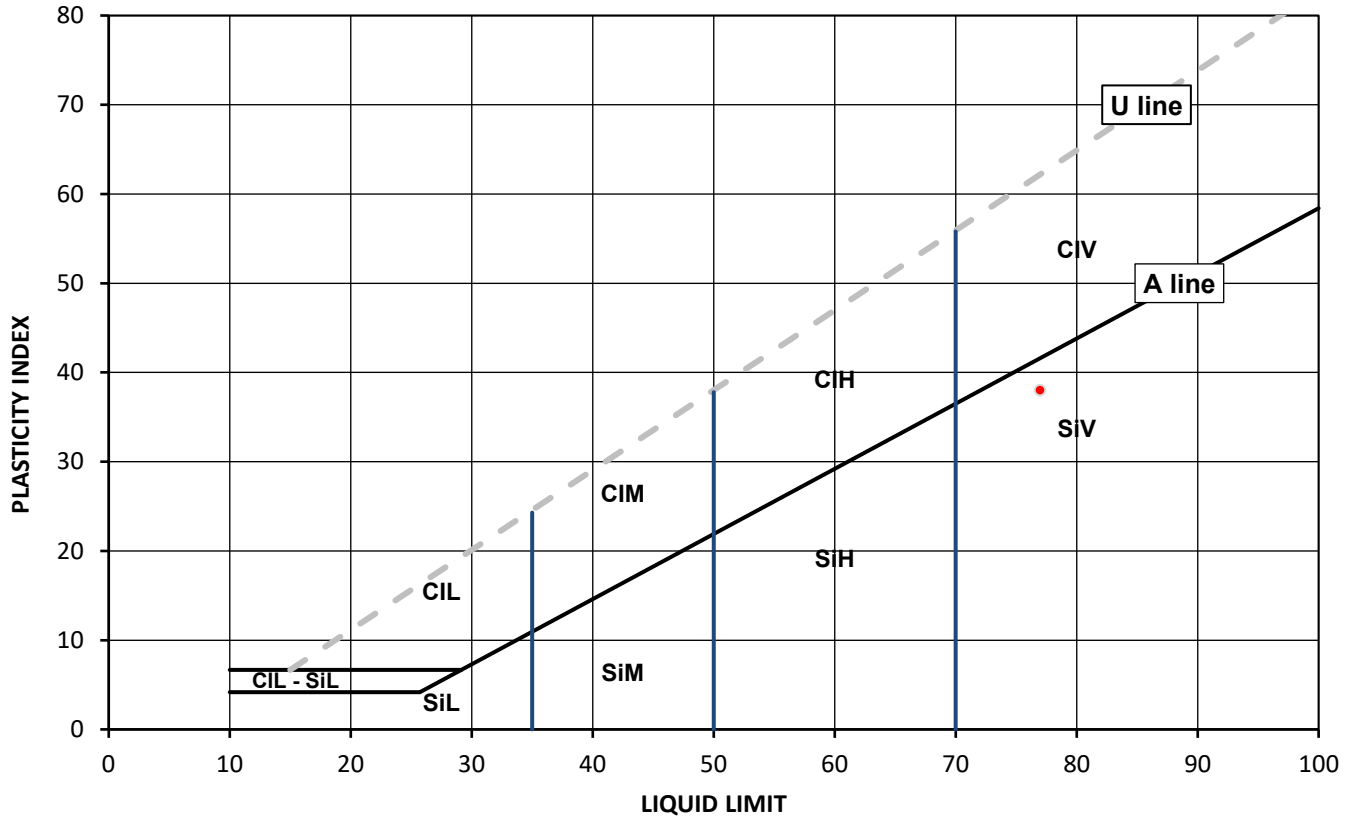
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		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	27/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720621	Depth Top [m]:	3.30
Hole No.:	MTP101	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown slightly gravelly silty CLAY		
Sample Preparation:	Tested after washing to remove >0.425mm; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
33.7	77	39	38	-0.13	1.13	93



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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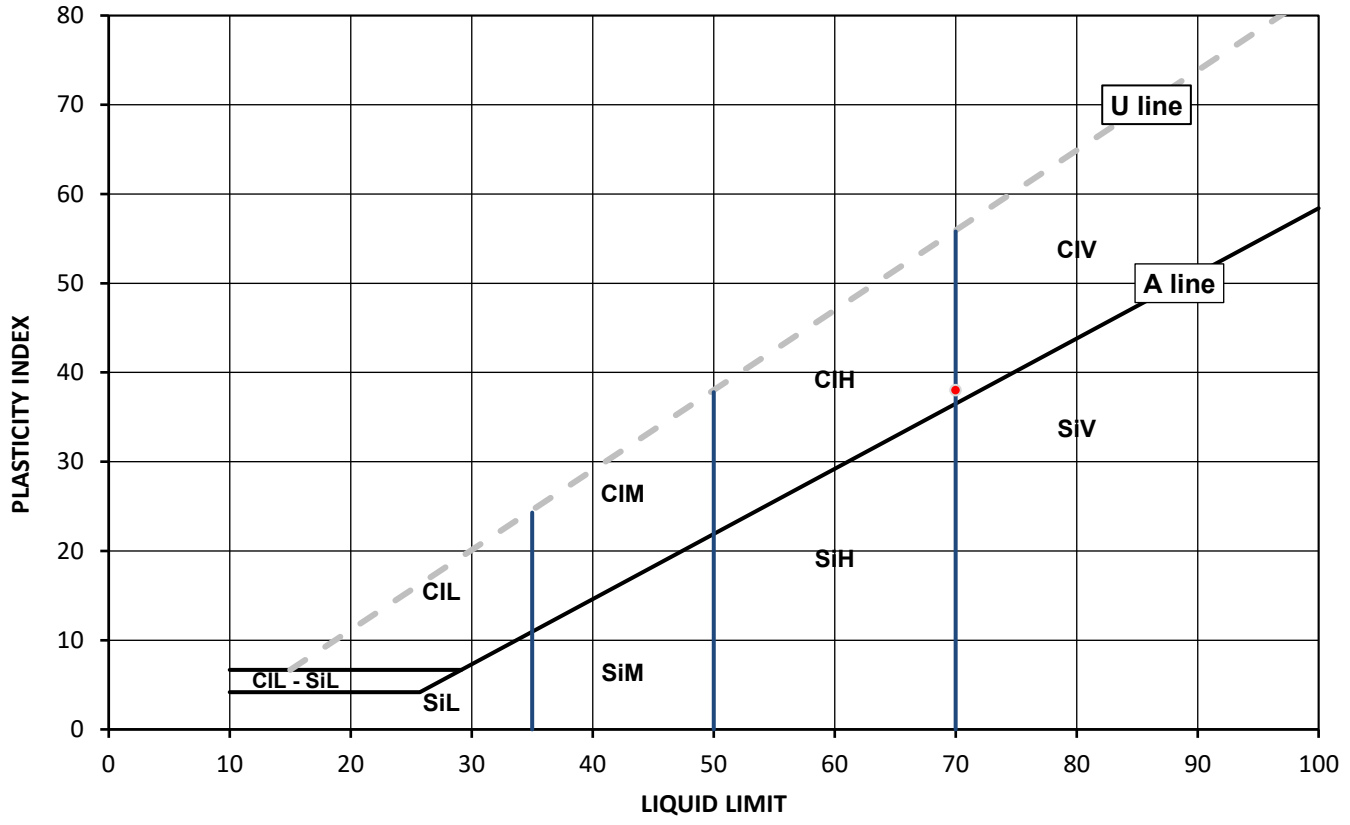
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	27/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720622	Depth Top [m]:	1.00
Hole No.:	MTP102	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown slightly gravelly silty CLAY		
Sample Preparation:	Tested after washing to remove >0.425mm; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
41.1	70	32	38	0.24	0.76	94



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 337.16

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022,cl 5.2 and 6

4041

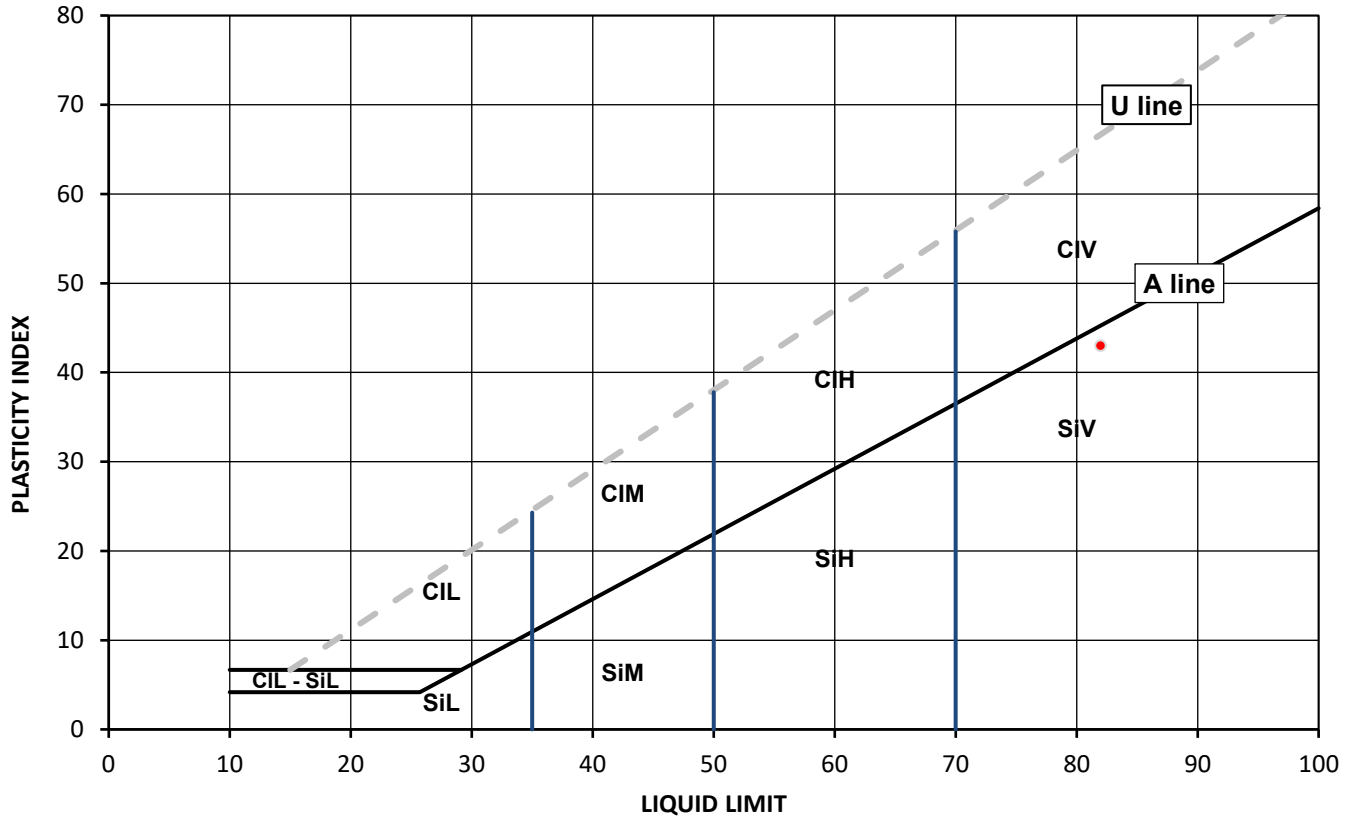
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	27/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720624	Depth Top [m]:	3.10
Hole No.:	MTP102	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Greyish brown silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
45.8	82	39	43	0.16	0.84	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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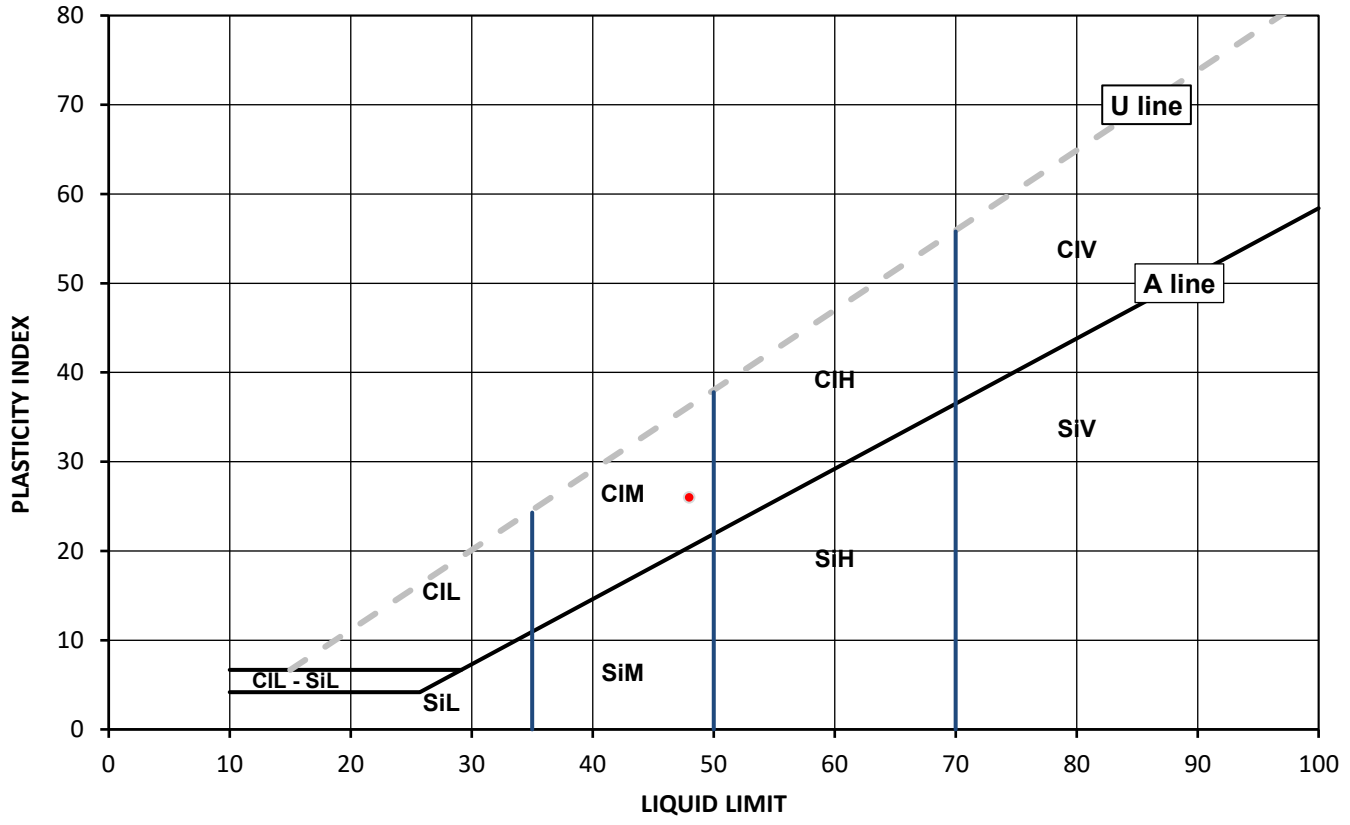
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		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	27/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720625	Depth Top [m]:	1.00
Hole No.:	MTP103	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown slightly sandy CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
22.4	48	22	26	0.00	1.00	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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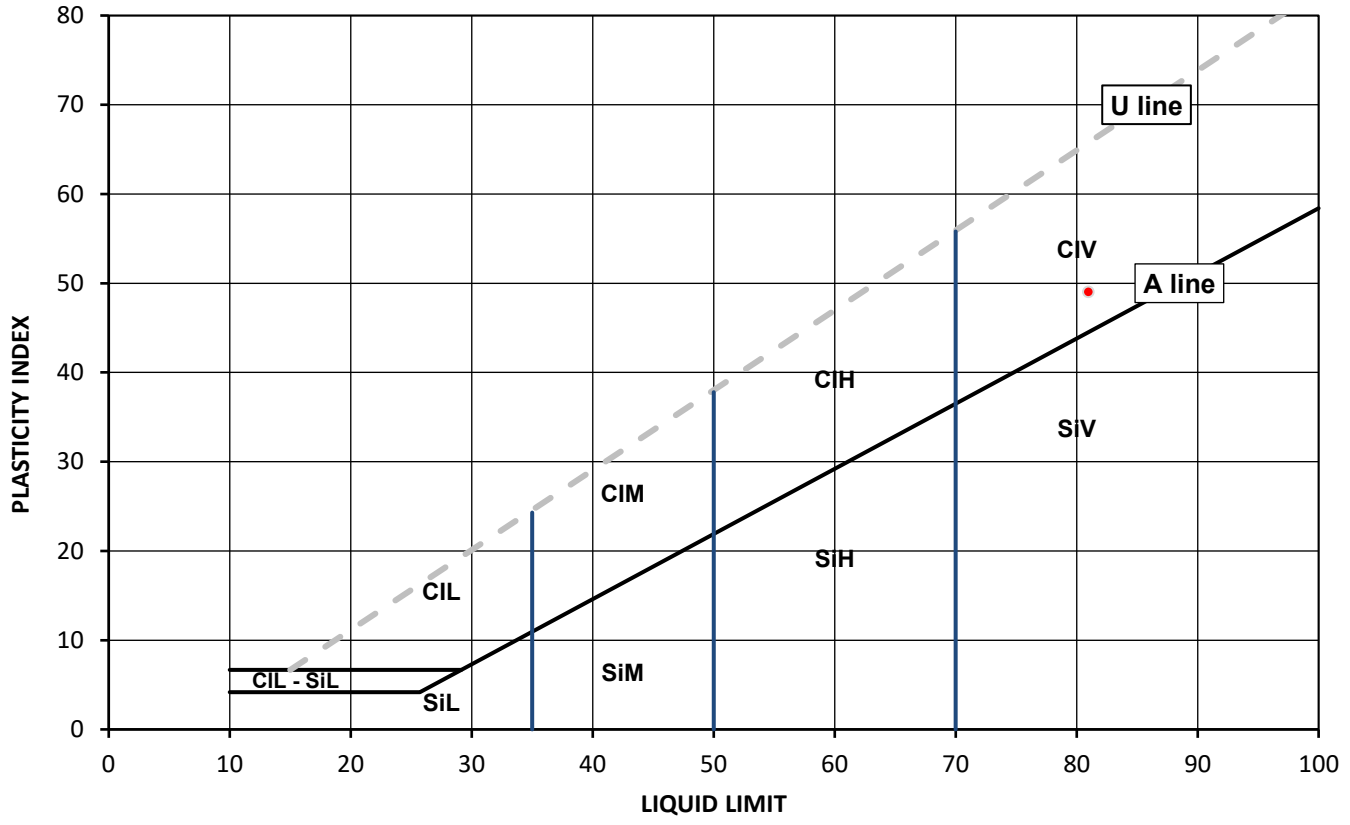
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Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	27/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720626	Depth Top [m]:	2.20
Hole No.:	MTP103	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Greyish brown slightly gravelly CLAY		
Sample Preparation:	Tested after washing to remove >0.425mm; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
33.3	81	32	49	0.02	0.98	99



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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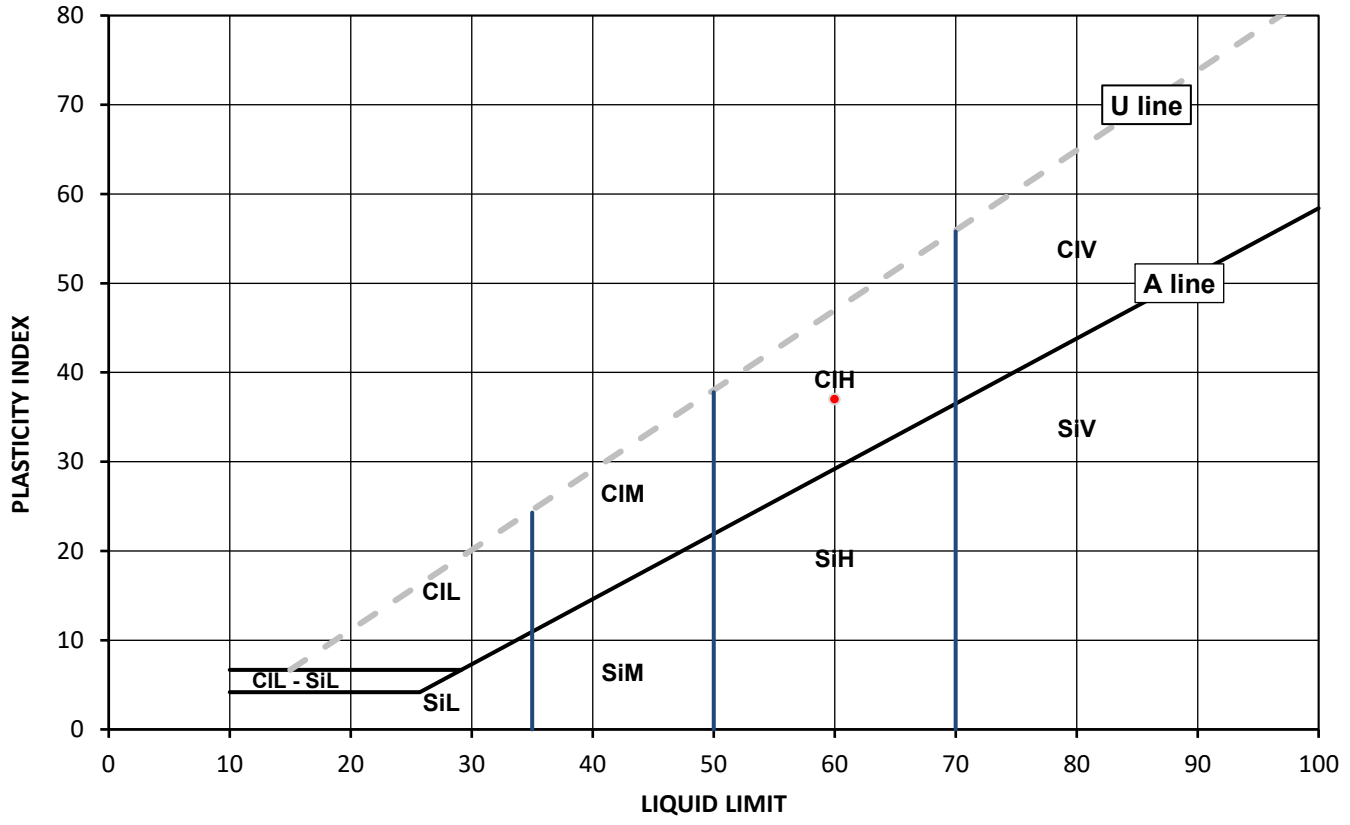
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Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	27/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720628	Depth Top [m]:	1.90
Hole No.:	MTP104	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly CLAY		
Sample Preparation:	Tested after washing to remove >0.425mm; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
29.7	60	23	37	0.19	0.81	80



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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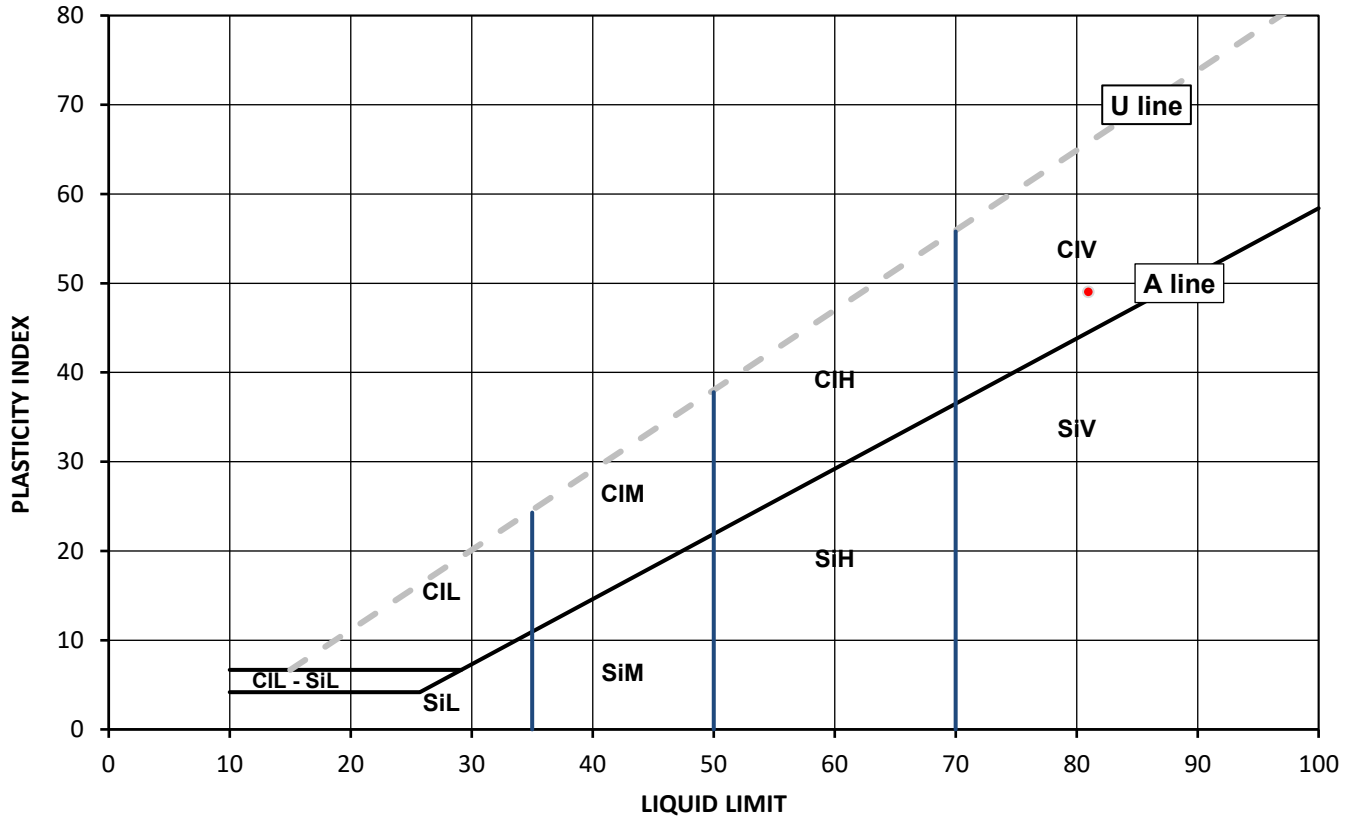
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Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	27/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720629	Depth Top [m]:	2.50
Hole No.:	MTP104	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Greyish brown slightly gravelly CLAY		
Sample Preparation:	Tested after washing to remove >0.425mm; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
35.3	81	32	49	0.06	0.94	69



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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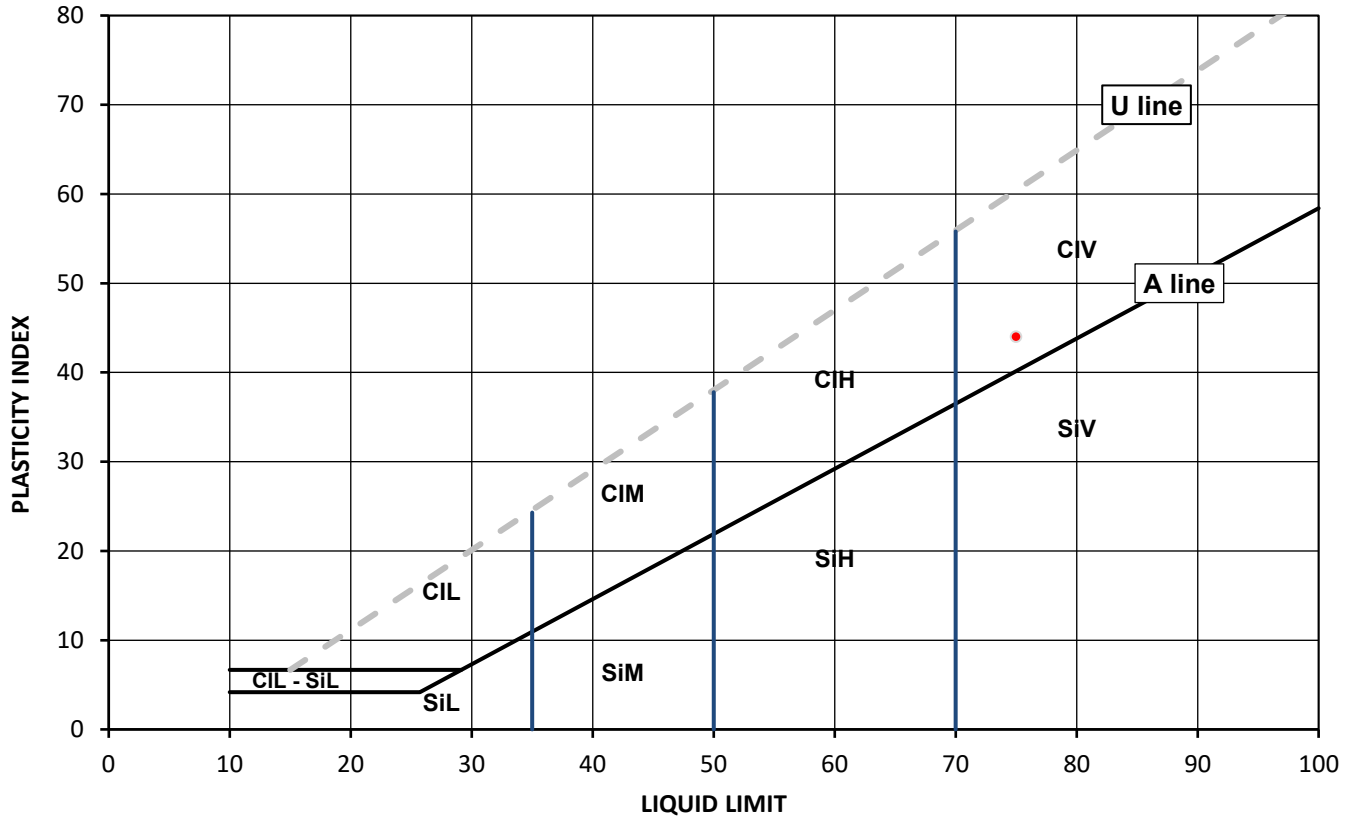
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720634	Depth Top [m]:	2.20
Hole No.:	MTP107 / CBR03	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light grey CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
32.9	75	31	44	0.05	0.95	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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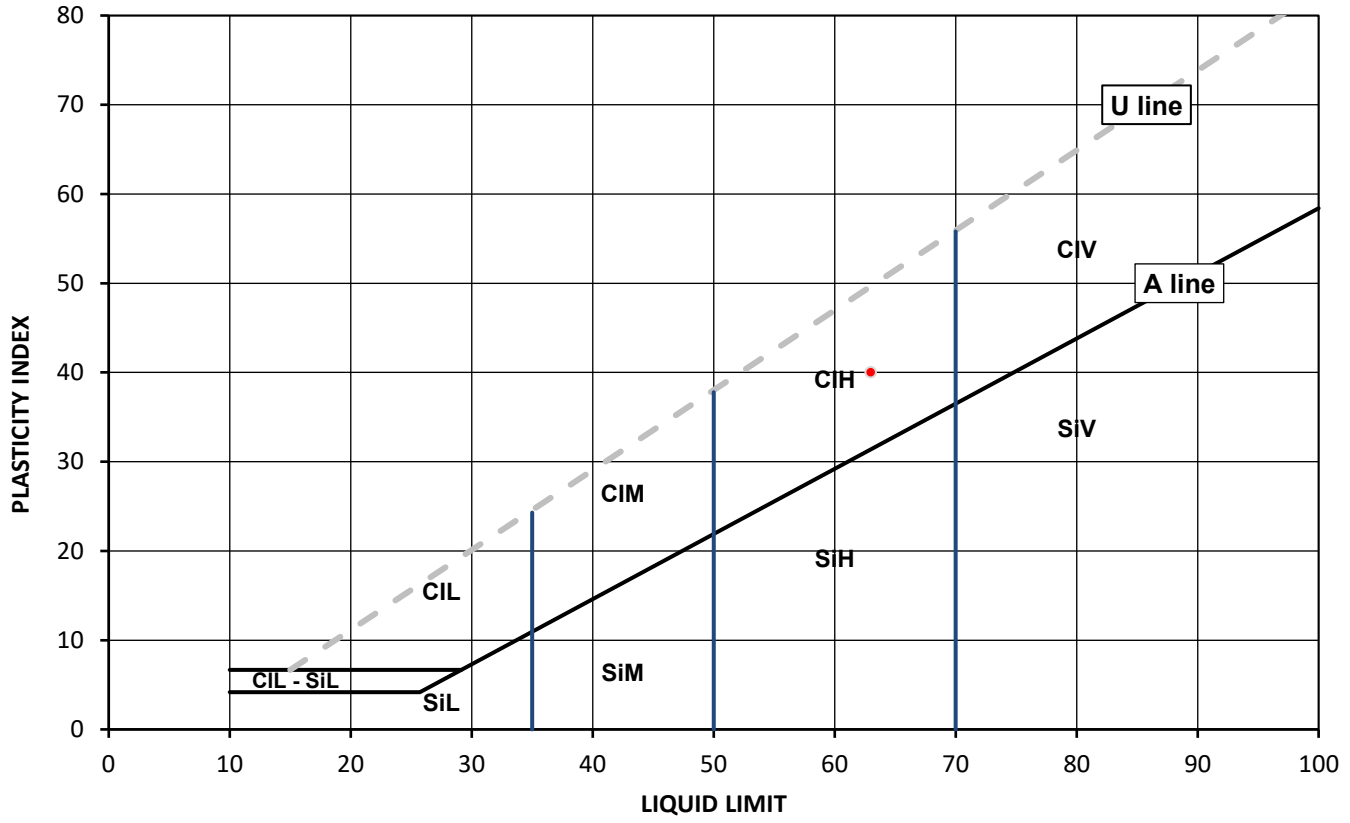
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Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720635	Depth Top [m]:	3.10
Hole No.:	MTP107 / CBR03	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
23.3	63	23	40	0.00	1.00	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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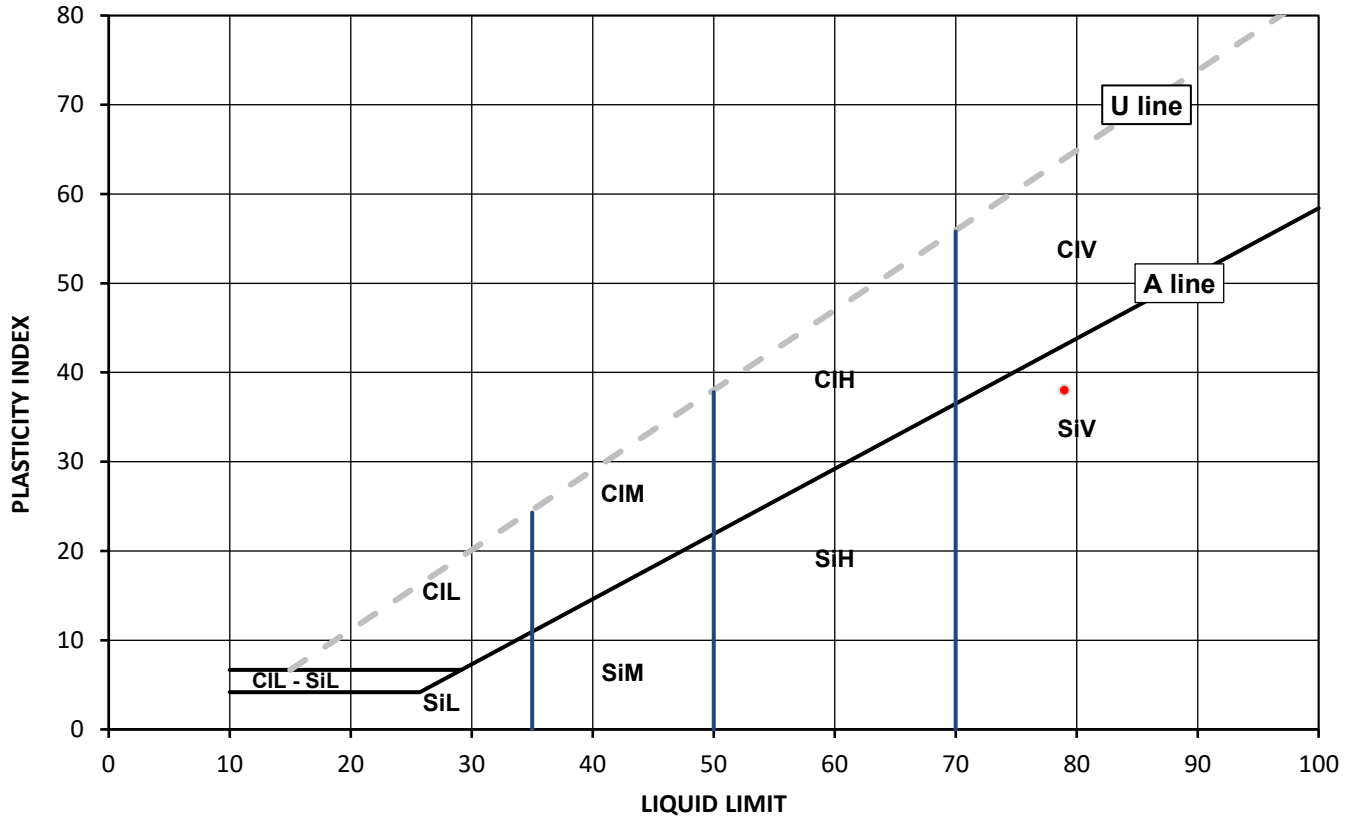
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Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720637	Depth Top [m]:	1.40
Hole No.:	MTP108 / CBR1	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
46.5	79	41	38	0.16	0.84	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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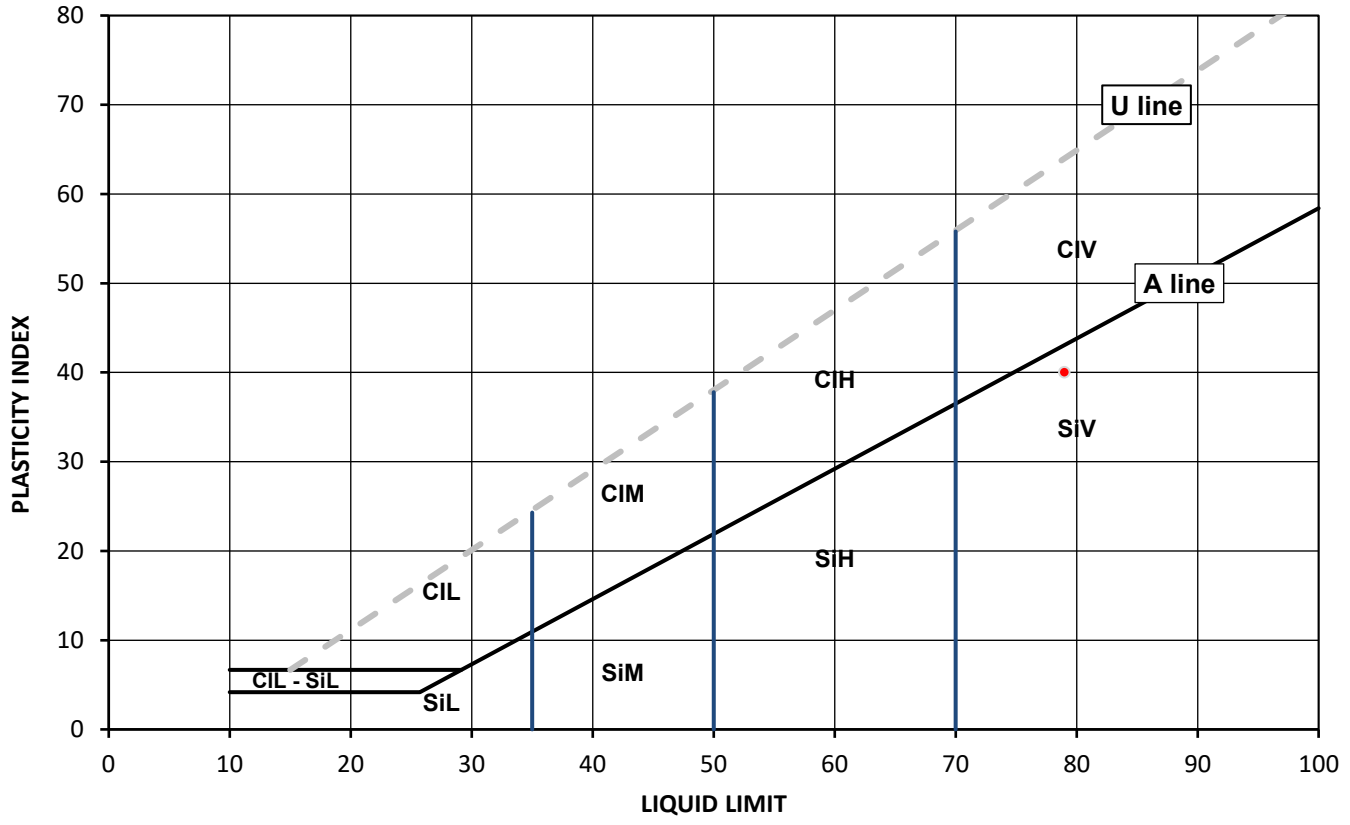
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		Date Sampled:	06/10/2025
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Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720638	Depth Top [m]:	2.20
Hole No.:	MTP108 / CBR1	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown slightly gravelly silty CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
41.3	79	39	40	0.05	0.95	90



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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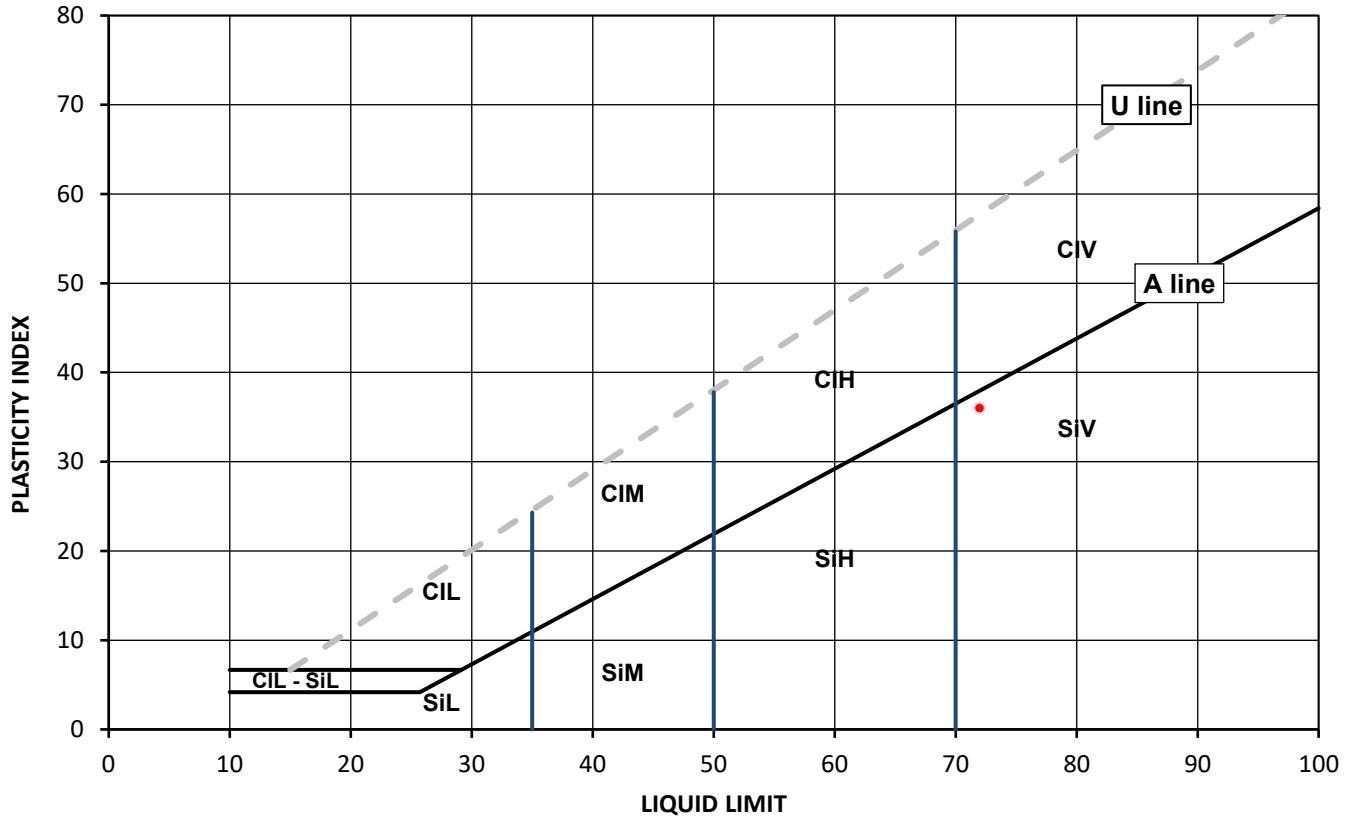
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		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720639	Depth Top [m]:	3.30
Hole No.:	MTP108 / CBR1	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Grey silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
29.8	72	36	36	-0.17	1.17	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 337.16

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022,cl 5.2 and 6

4041

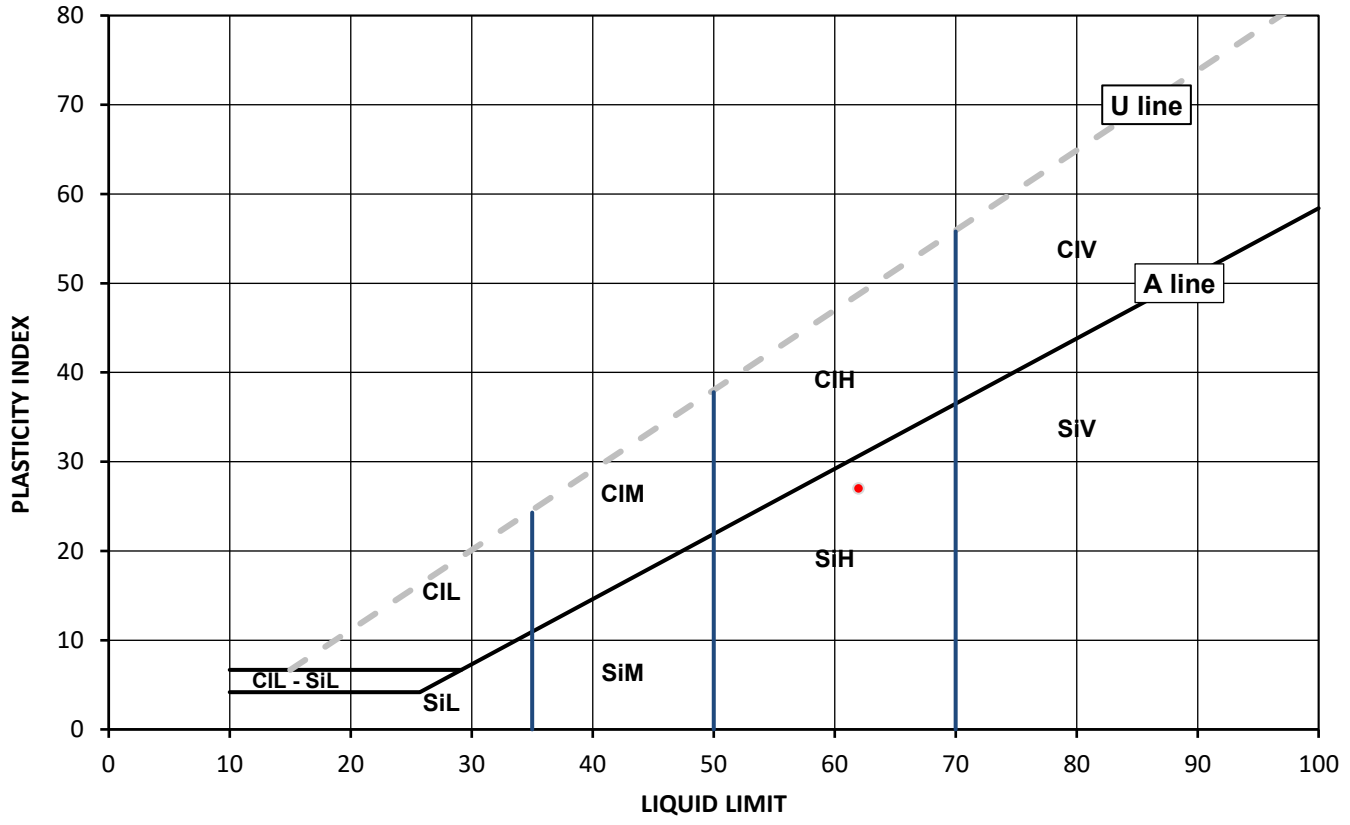
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720640	Depth Top [m]:	1.20
Hole No.:	MTP109	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Grey silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
33.4	62	35	27	-0.07	1.07	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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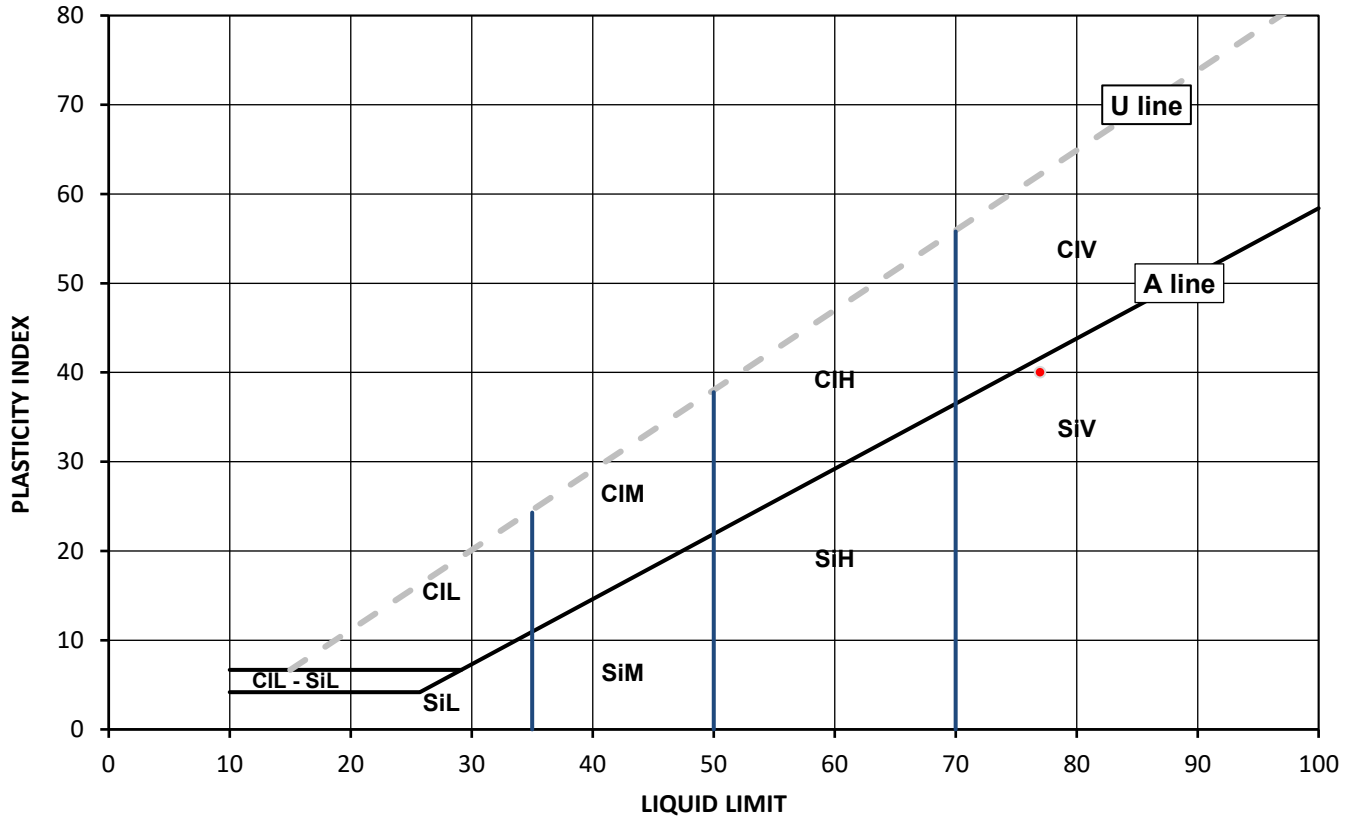
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		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	27/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720641	Depth Top [m]:	2.00
Hole No.:	MTP109	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brownish grey gravelly silty CLAY		
Sample Preparation:	Tested after washing to remove >0.425mm; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
28.2	77	37	40	-0.23	1.23	54



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

				Plasticity	Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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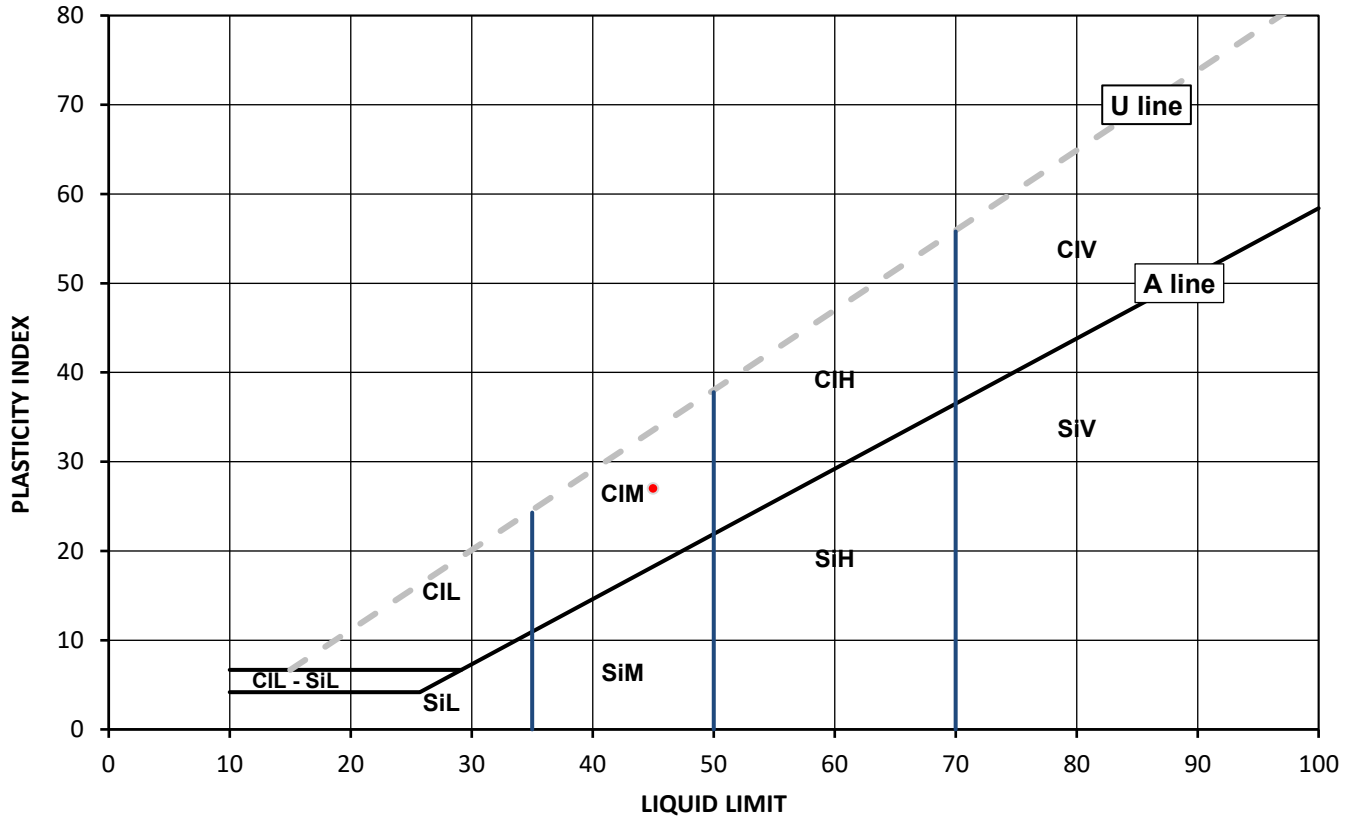
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		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720642	Depth Top [m]:	1.00
Hole No.:	MTP11	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown sandy CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
21.6	45	18	27	0.15	0.85	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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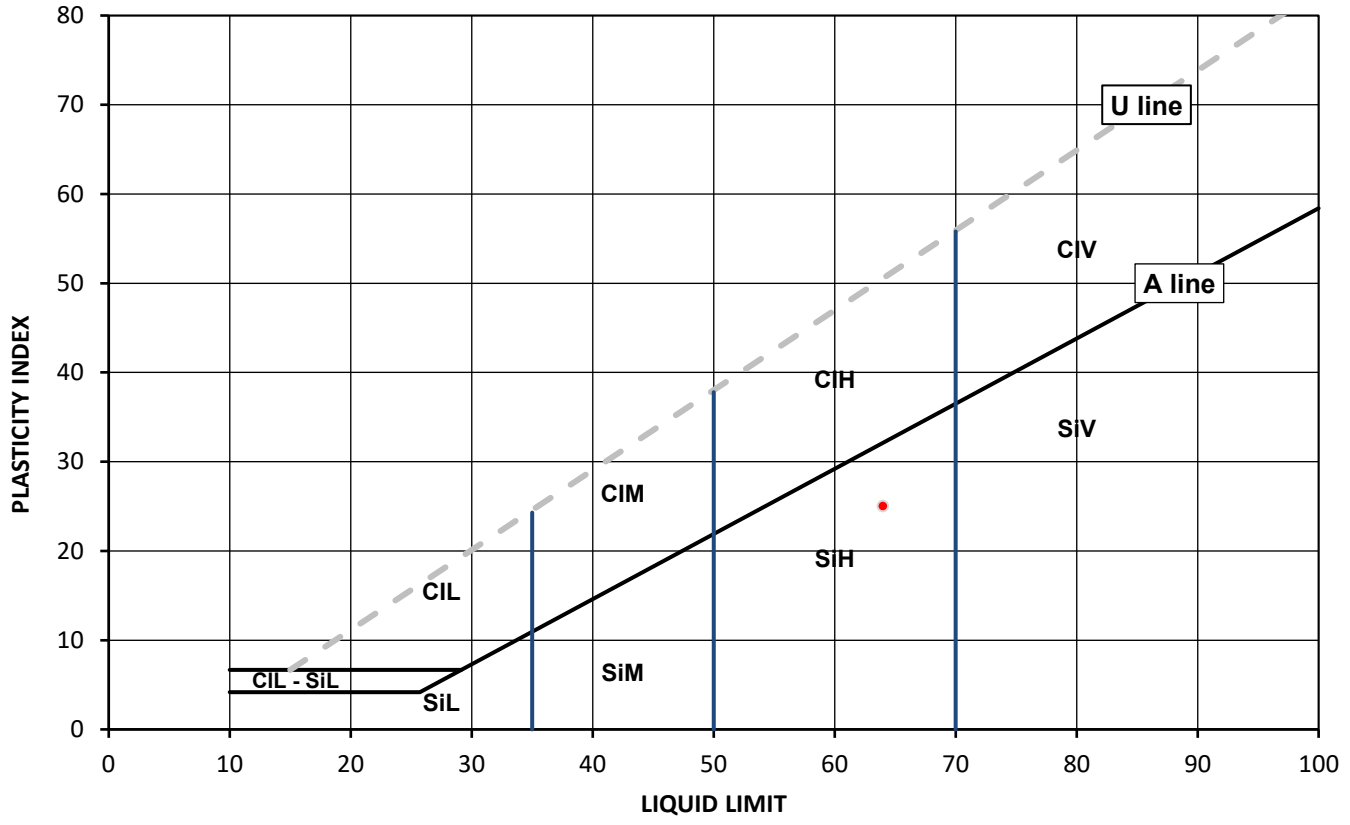
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Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720643	Depth Top [m]:	1.10
Hole No.:	MTP110	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown clayey SILT		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
36.4	64	39	25	-0.12	1.12	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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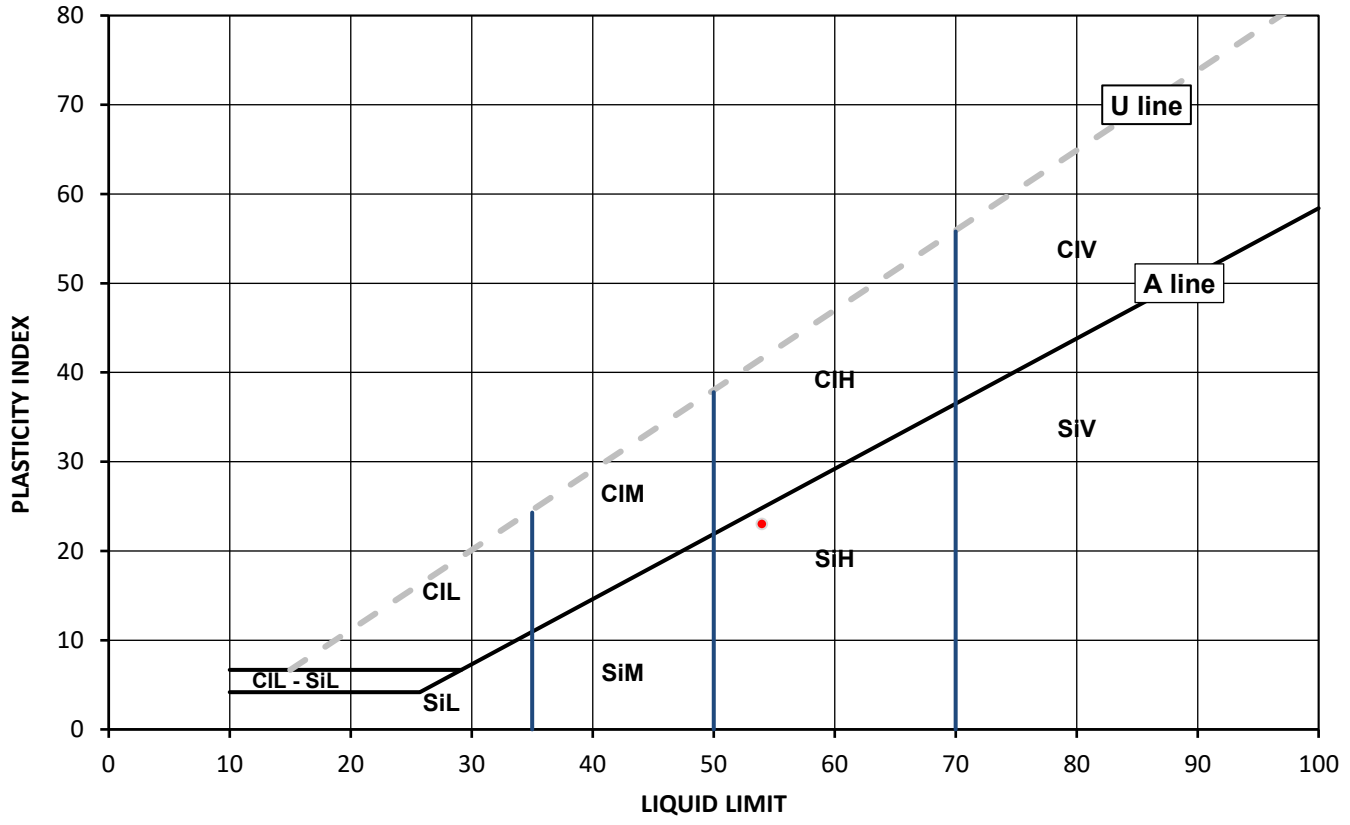
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Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720644	Depth Top [m]:	2.00
Hole No.:	MTP110	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brownish grey slightly sandy silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
14.9	54	31	23	-0.70	1.70	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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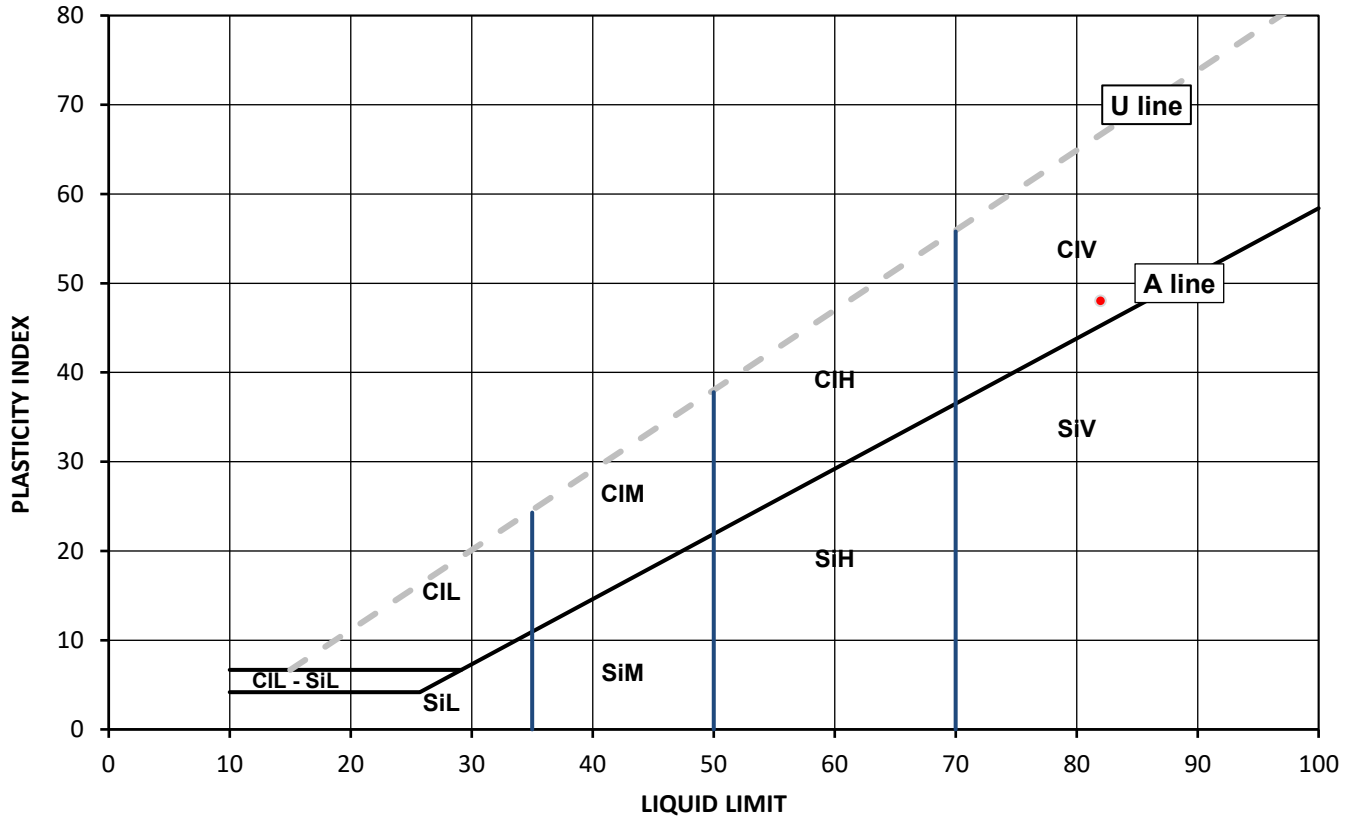
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		Date Sampled:	07/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720645	Depth Top [m]:	2.00
Hole No.:	MTP111 / CBR9	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
25.1	82	34	48	-0.19	1.19	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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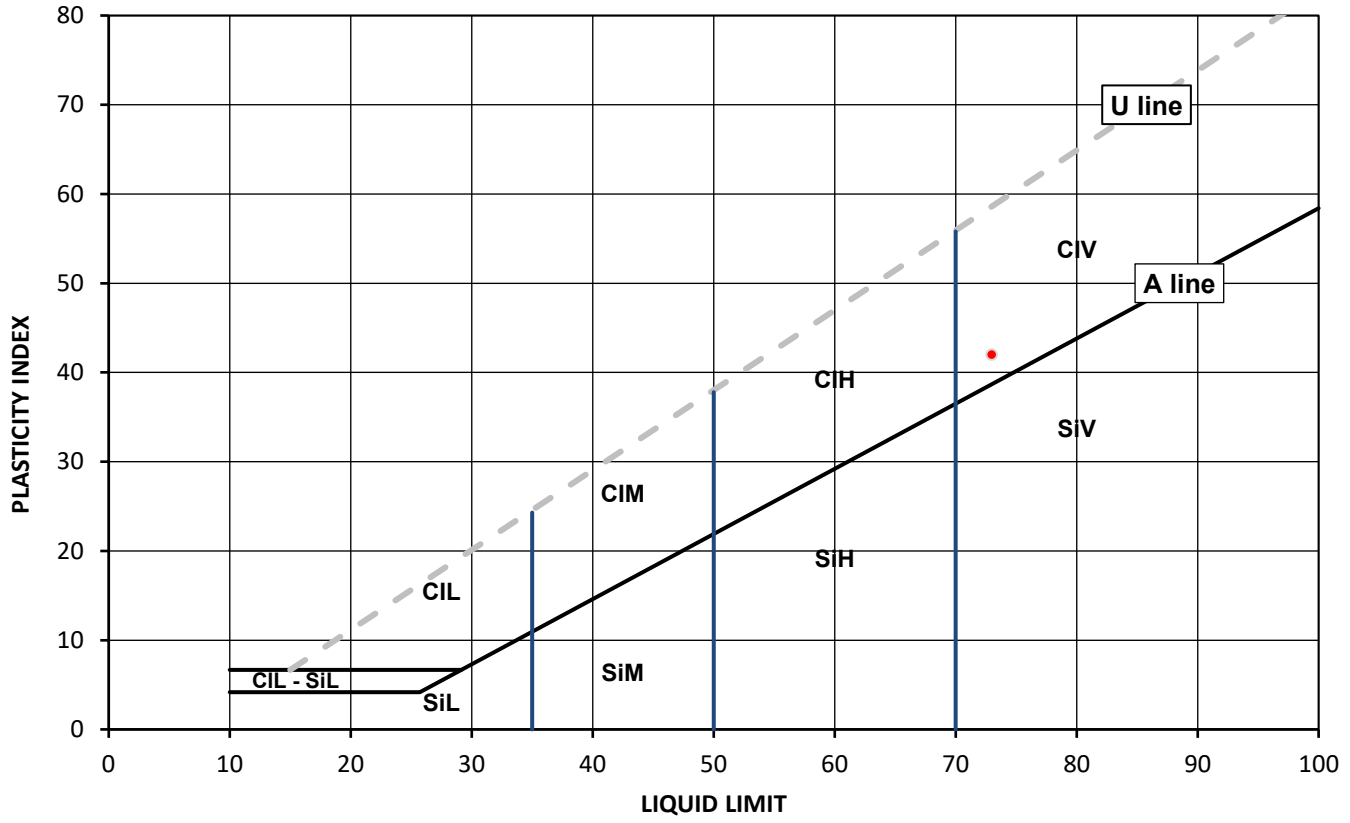
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Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720646	Depth Top [m]:	3.00
Hole No.:	MTP111 / CBR9	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Grey CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
24.0	73	31	42	-0.17	1.17	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
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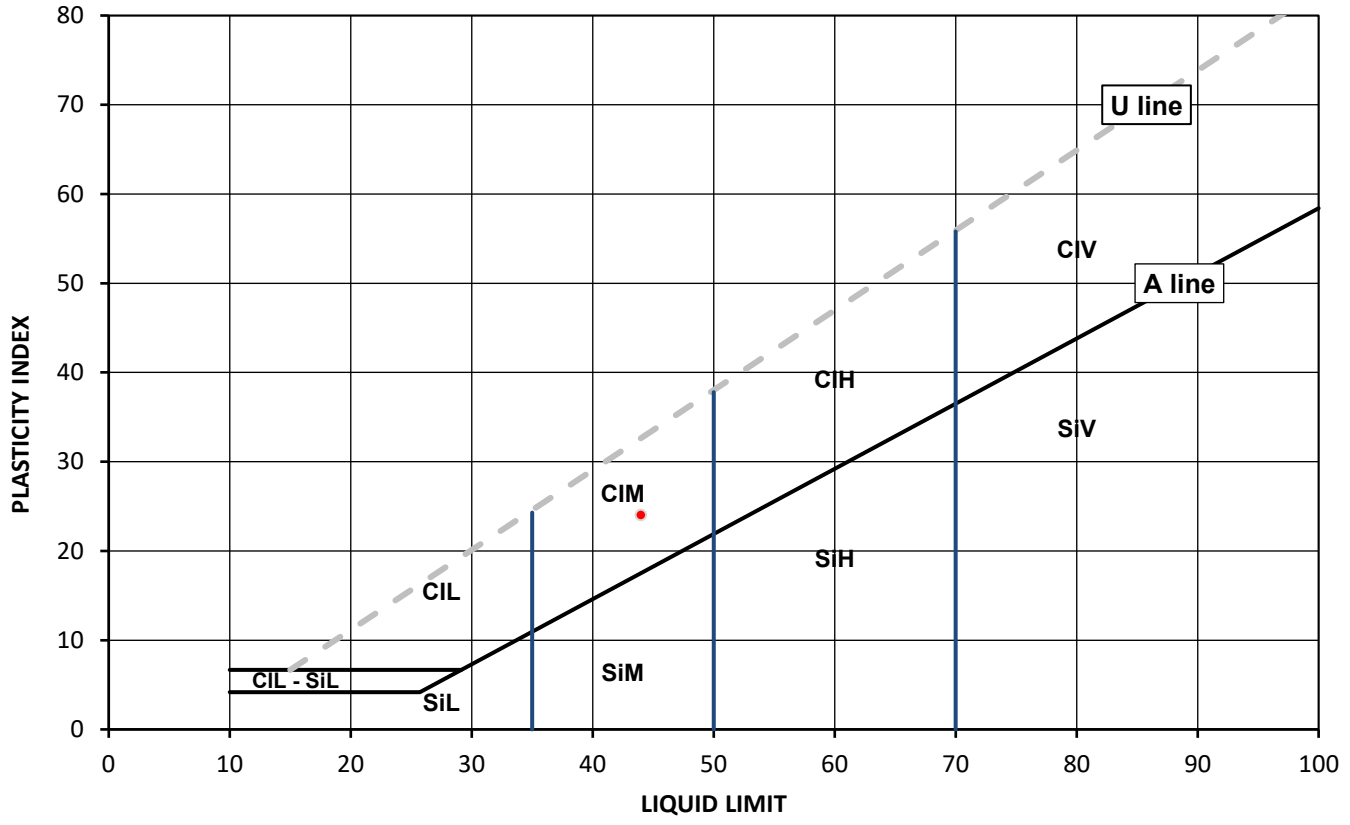
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Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720647	Depth Top [m]:	1.00
Hole No.:	MTP112	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown very gravelly sandy CLAY		
Sample Preparation:	Tested after washing to remove >0.425mm; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
16.2	44	20	24	-0.17	1.17	47



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
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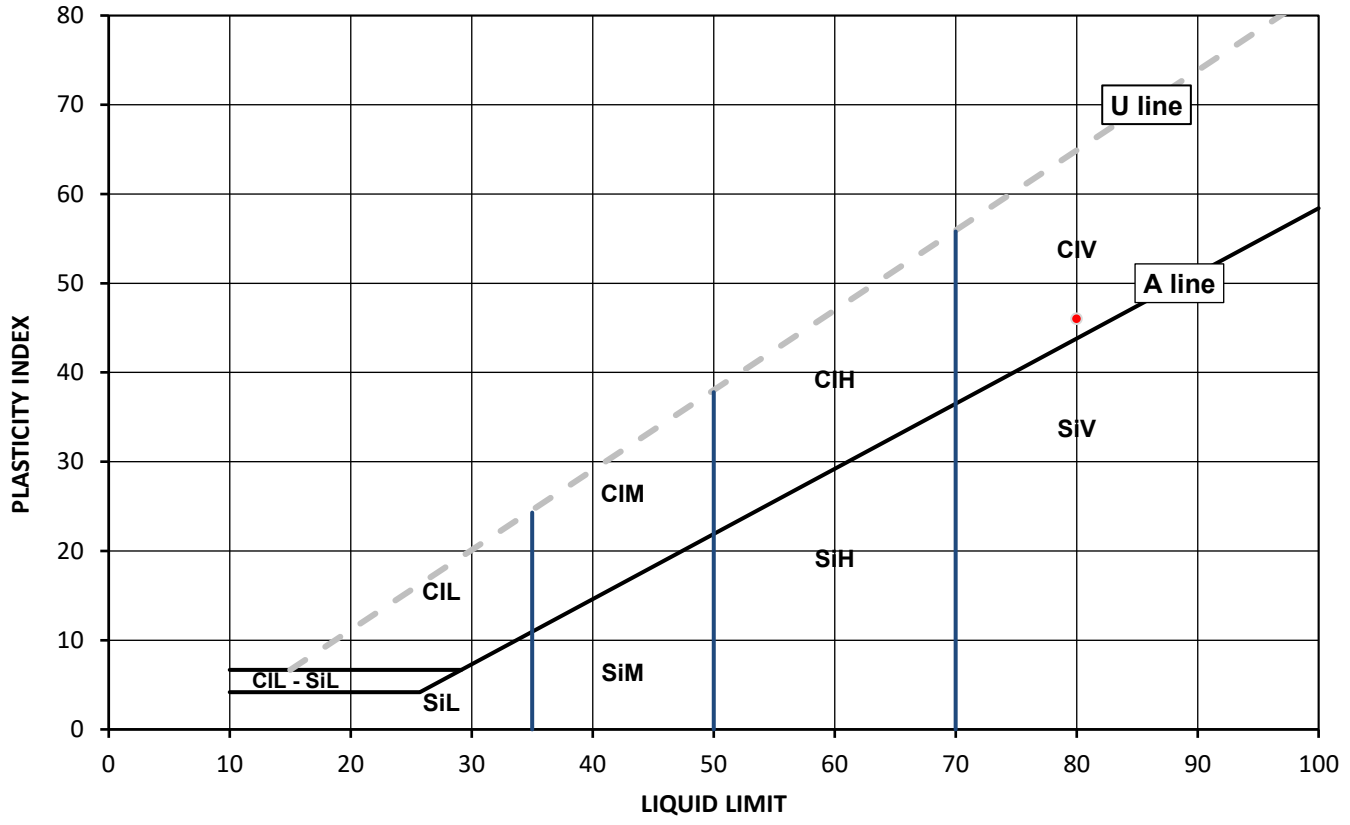
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		Date Sampled:	07/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720648	Depth Top [m]:	2.00
Hole No.:	MTP112	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
31.0	80	34	46	-0.07	1.07	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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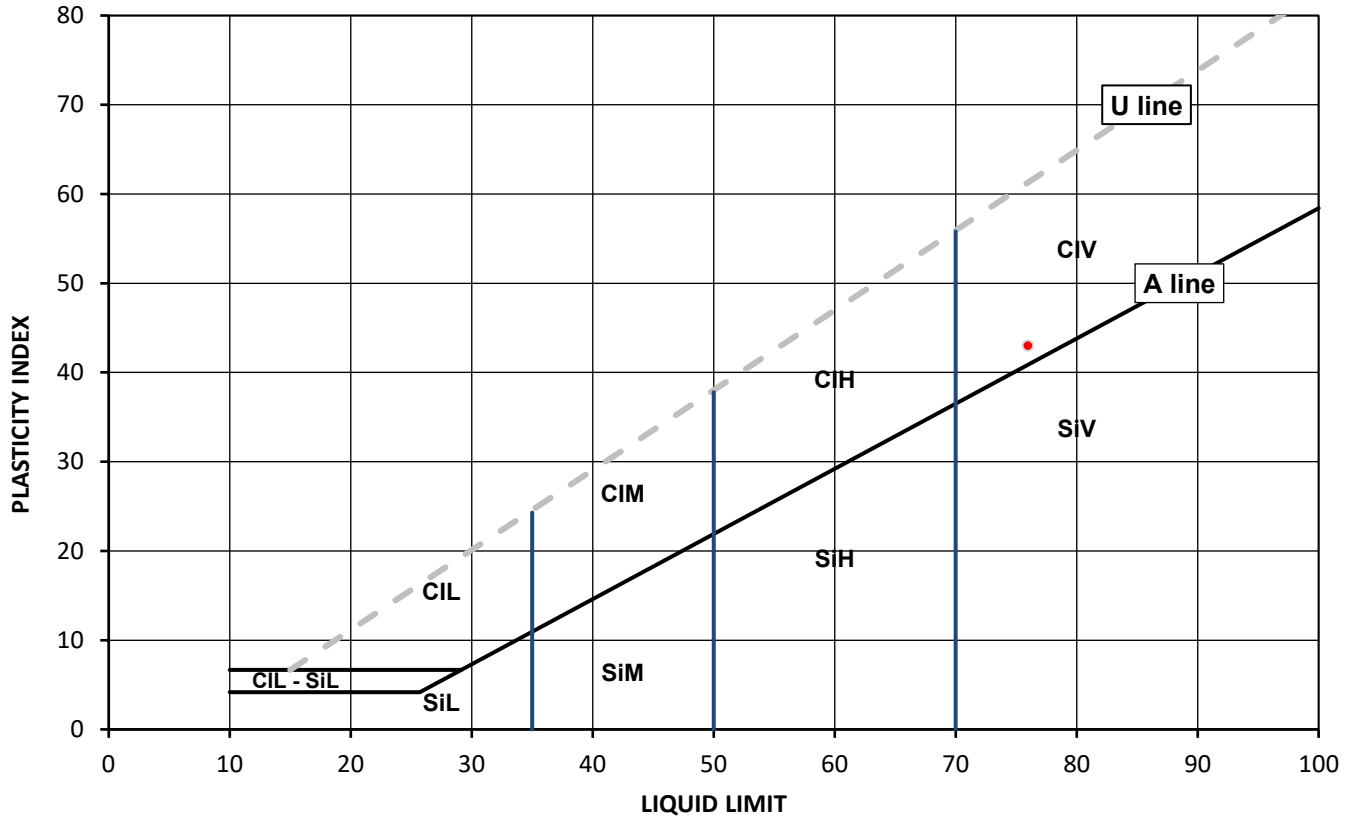
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		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720649	Depth Top [m]:	3.00
Hole No.:	MTP112	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
28.4	76	33	43	-0.12	1.12	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 337.16

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022,cl 5.2 and 6

4041

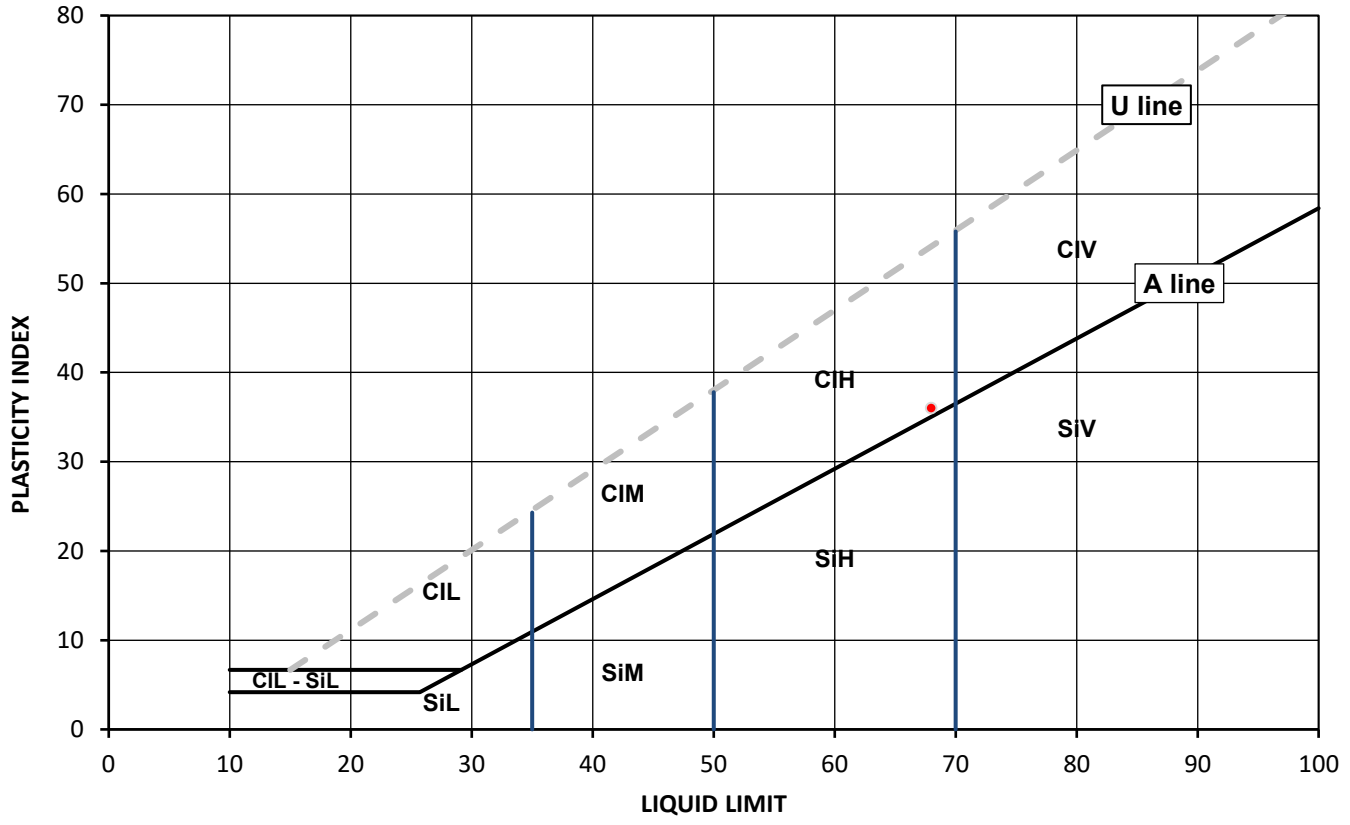
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	07/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720650	Depth Top [m]:	0.50
Hole No.:	MTP113	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown clayey GRAVEL		
Sample Preparation:	Tested after washing to remove >0.425mm; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
9.5	68	32	36	-0.61	1.61	14



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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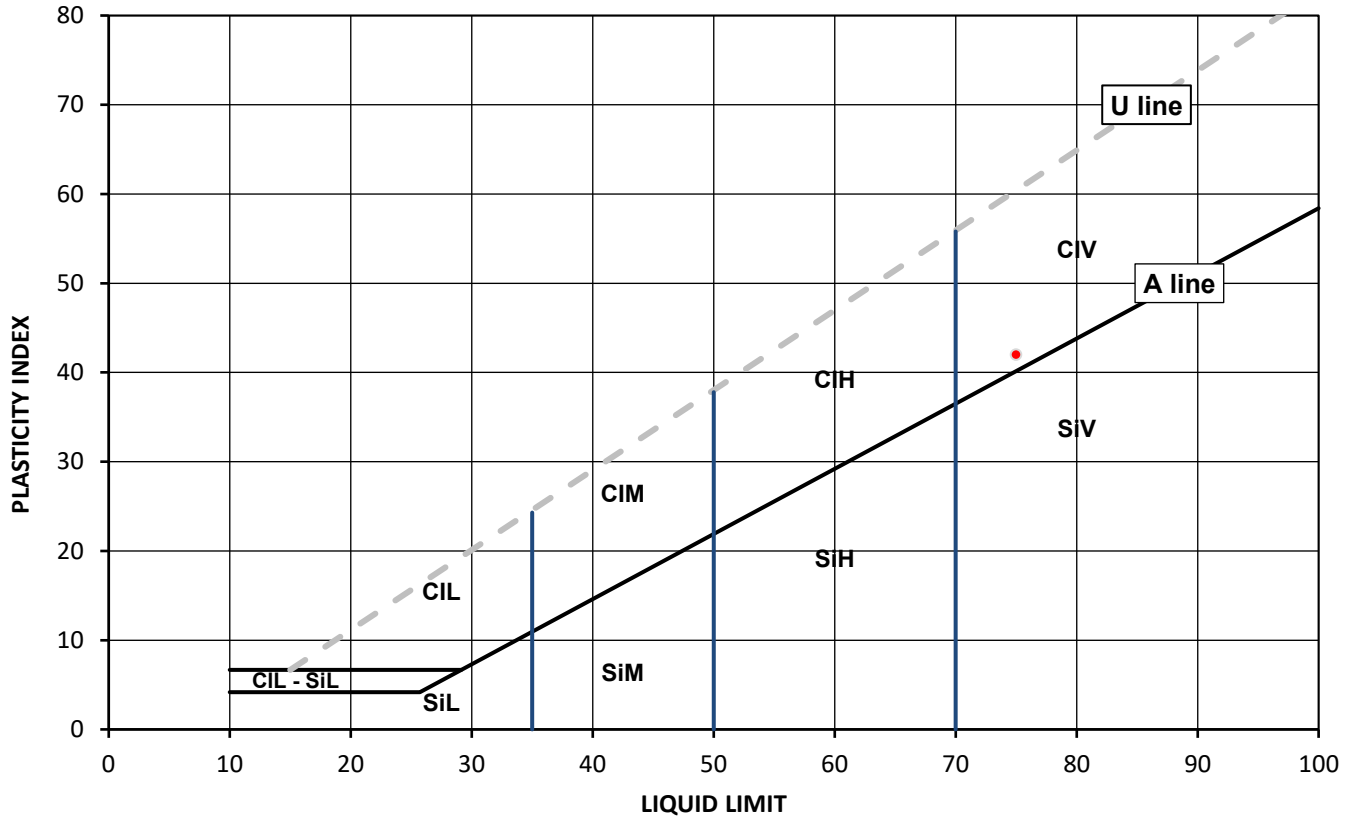
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Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	07/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720651	Depth Top [m]:	1.50
Hole No.:	MTP113	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Grey silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
31.0	75	33	42	-0.05	1.05	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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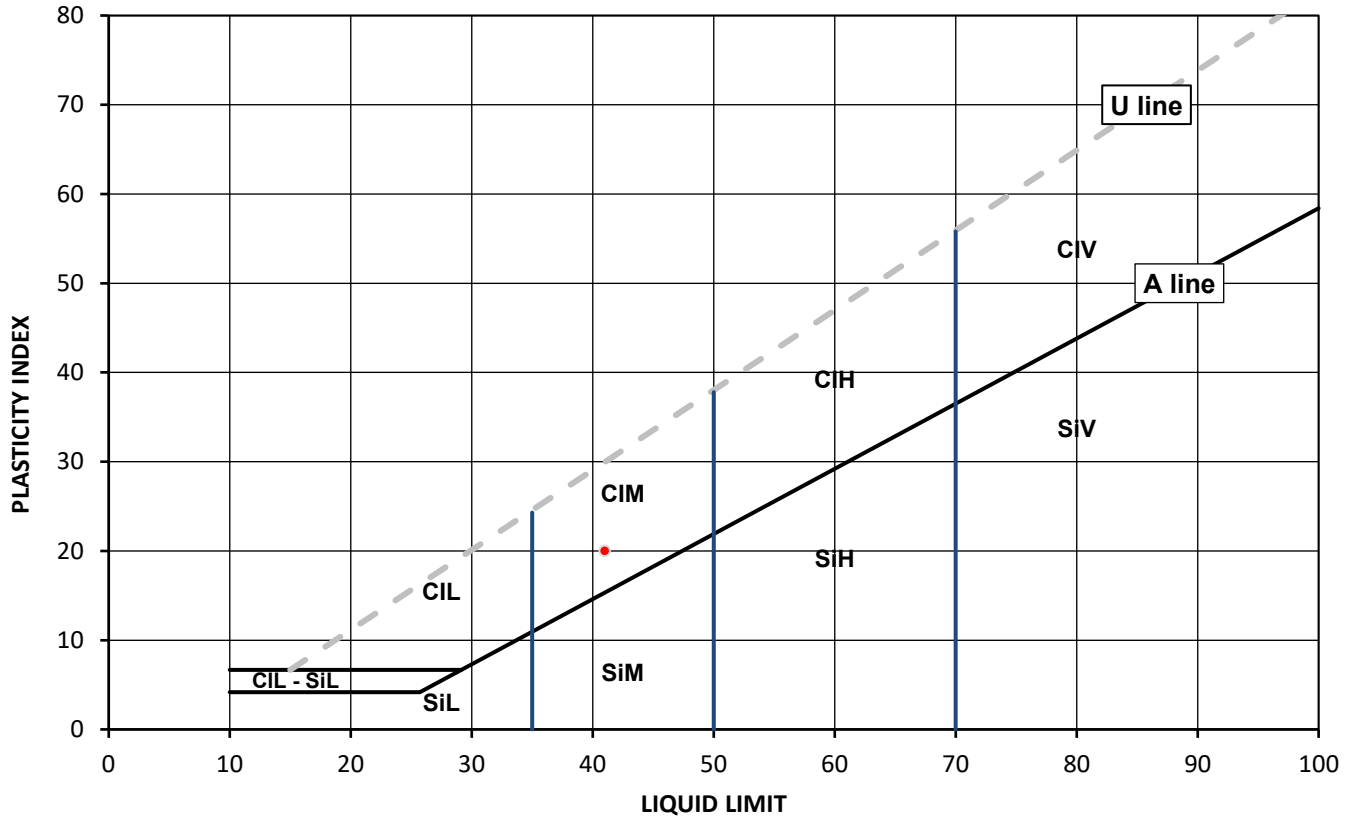
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		Date Sampled:	07/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720652	Depth Top [m]:	0.90
Hole No.:	MTP114	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly sandy CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
21.4	41	21	20	0.00	1.00	96



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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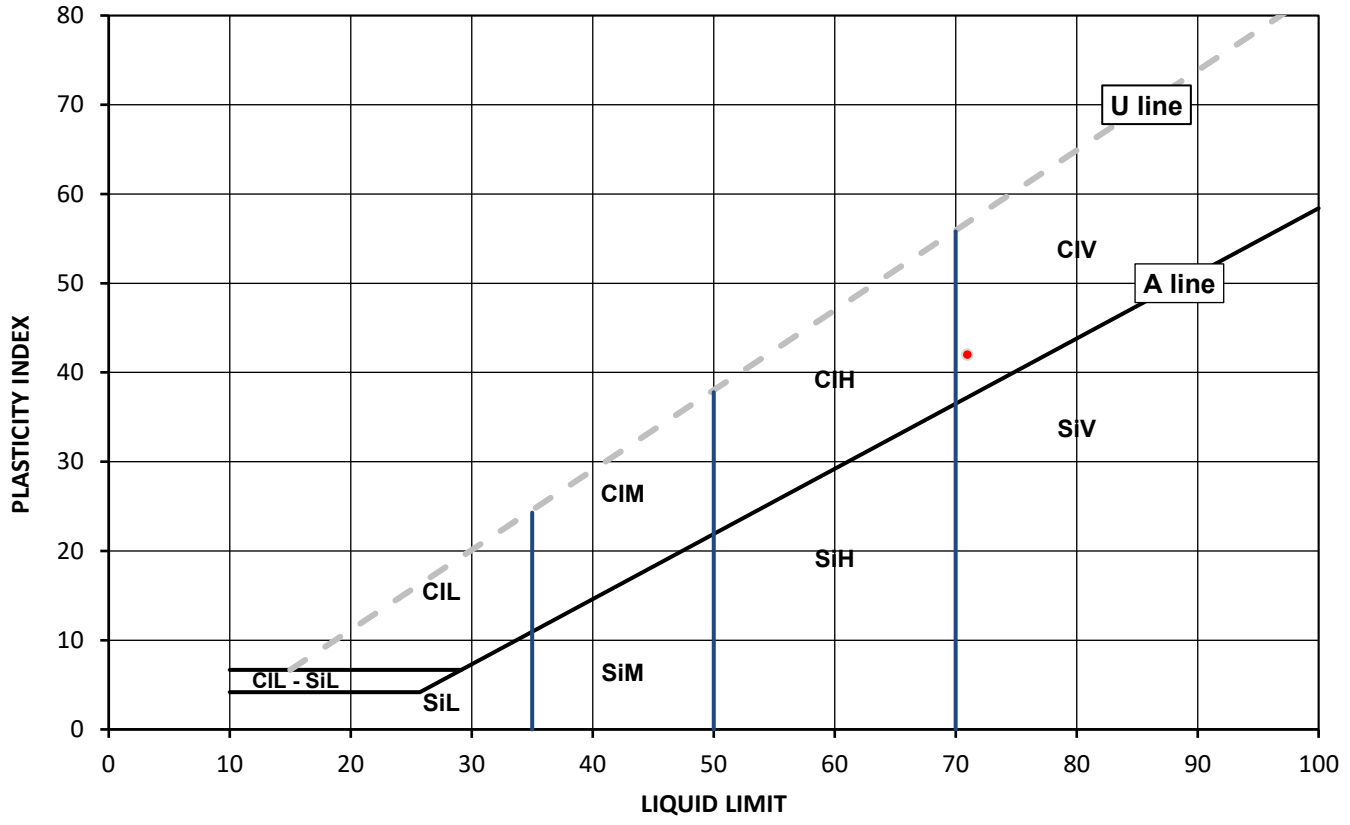
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		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720653	Depth Top [m]:	2.00
Hole No.:	MTP114	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly CLAY		
Sample Preparation:	Tested after >0.425mm removed by hand; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
34.1	71	29	42	0.12	0.88	99



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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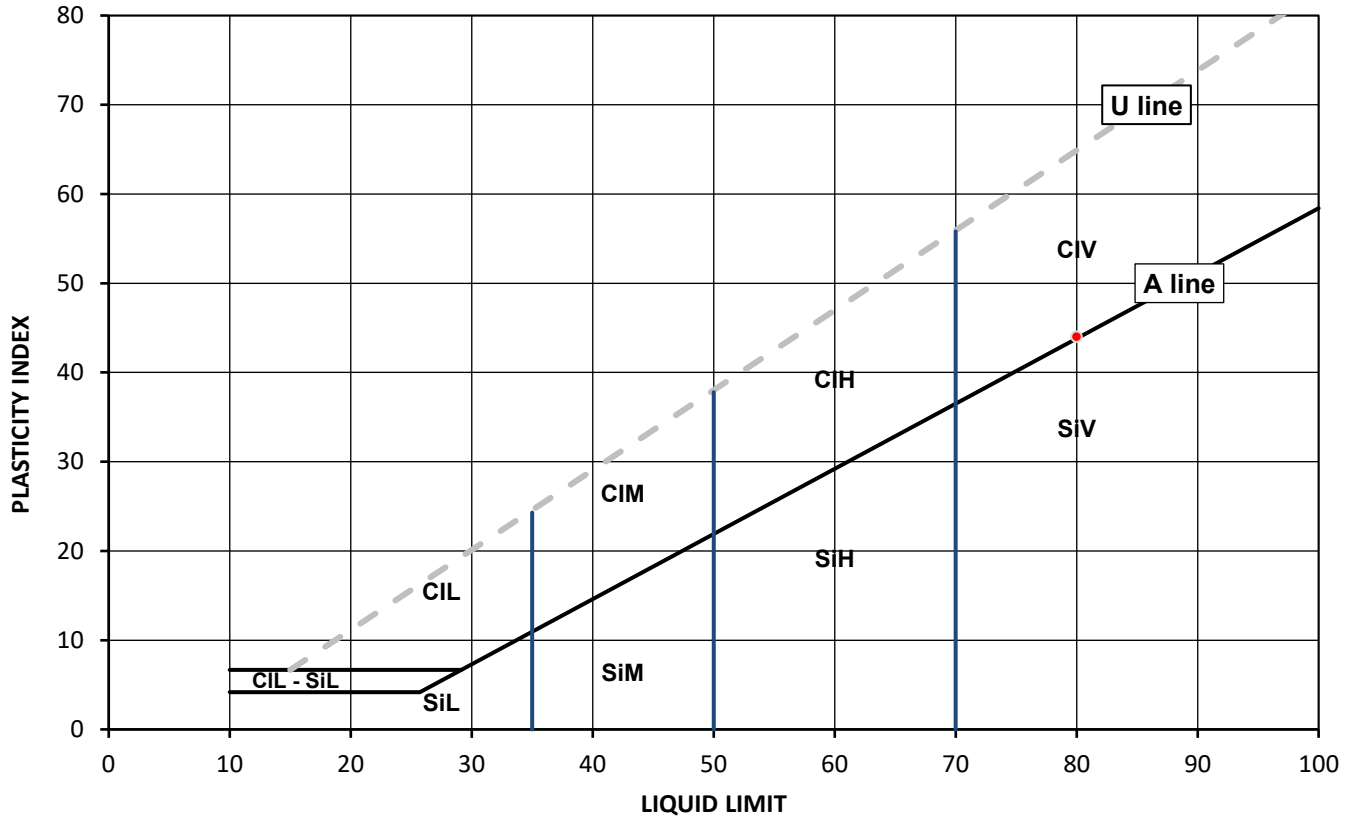
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Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	07/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	27/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720654	Depth Top [m]:	3.30
Hole No.:	MTP114	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
44.2	80	36	44	0.18	0.82	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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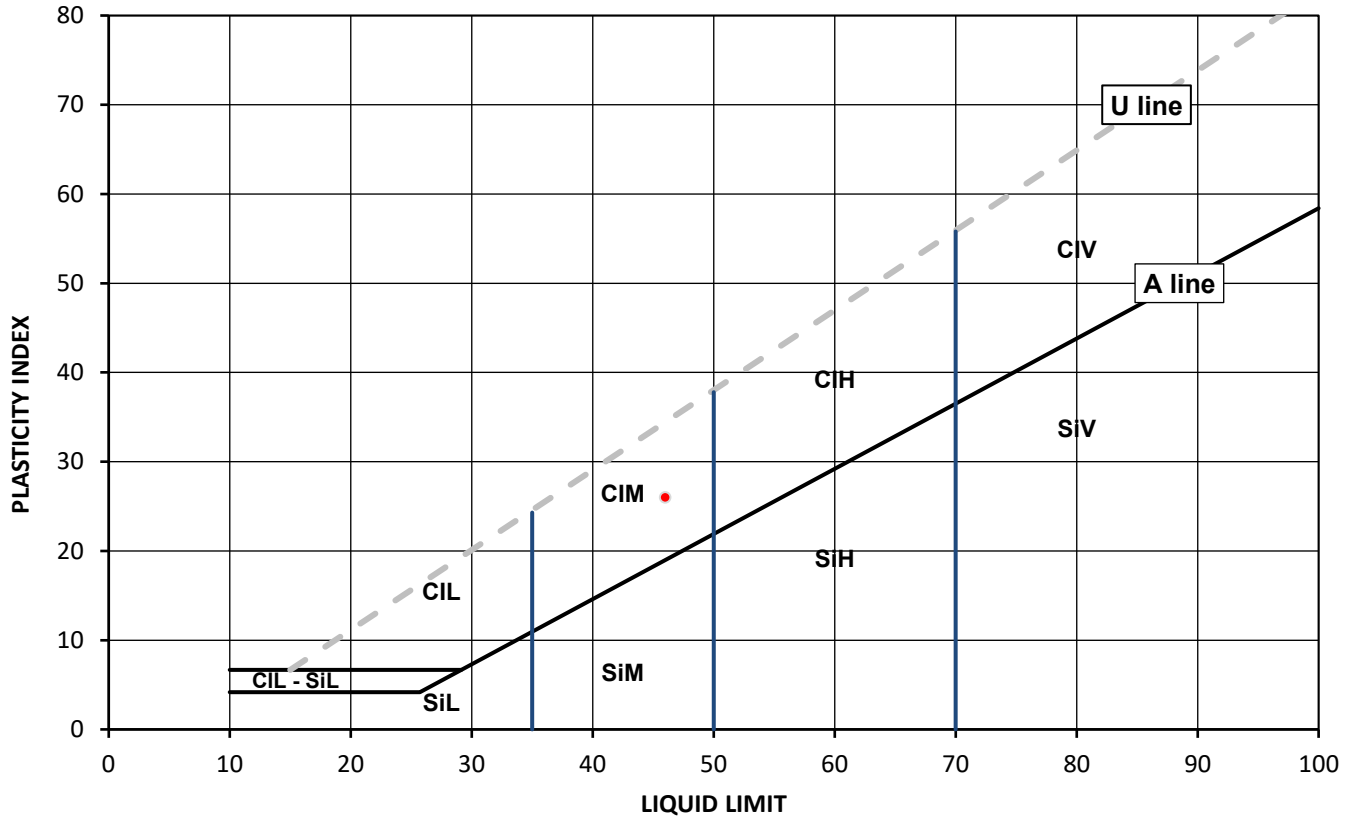
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	07/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720655	Depth Top [m]:	0.70
Hole No.:	MTP115	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Yellowish brown gravelly slightly sandy CLAY		
Sample Preparation:	Tested after washing to remove >0.425mm; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
15.9	46	20	26	-0.15	1.15	57



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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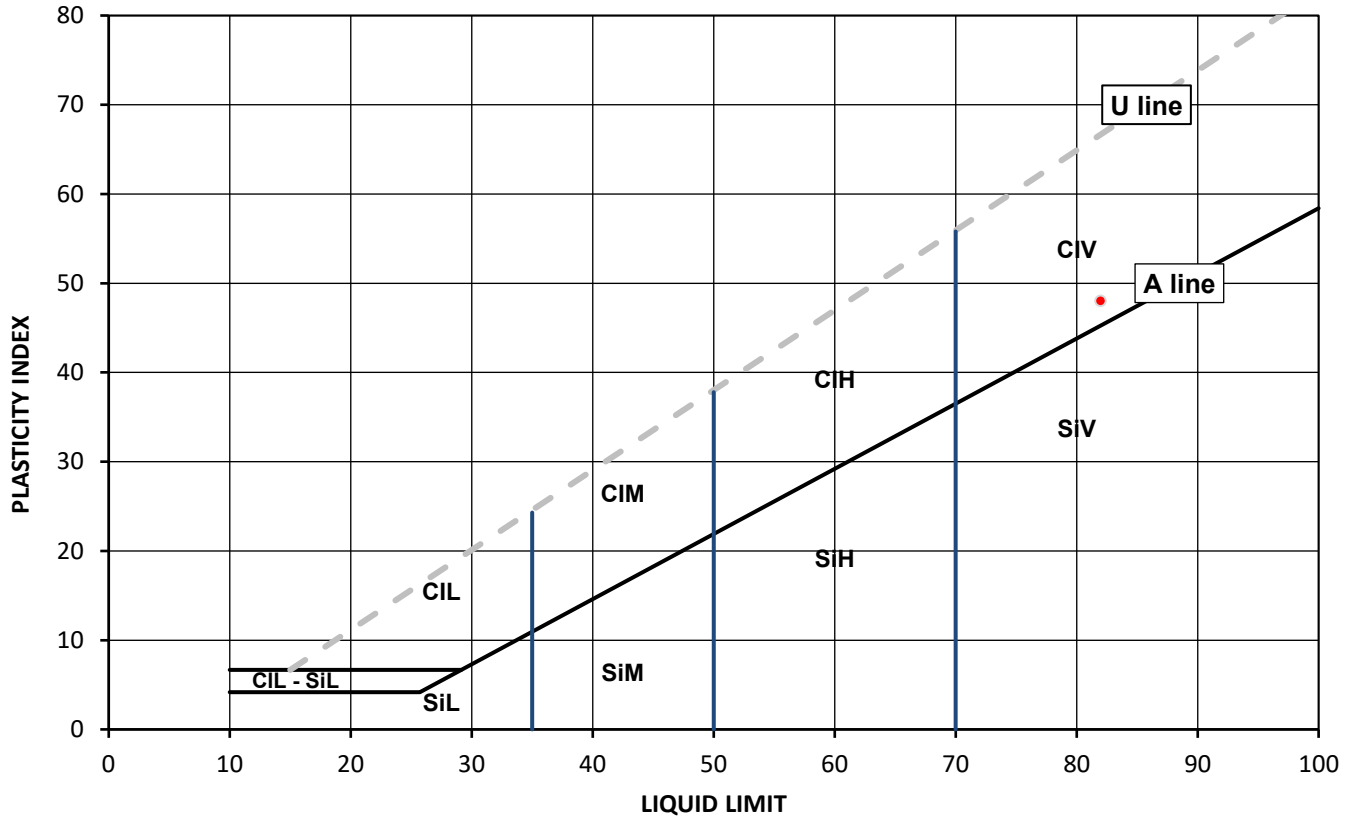
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		Date Sampled:	07/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	28/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720656	Depth Top [m]:	1.70
Hole No.:	MTP115	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
40.2	82	34	48	0.13	0.88	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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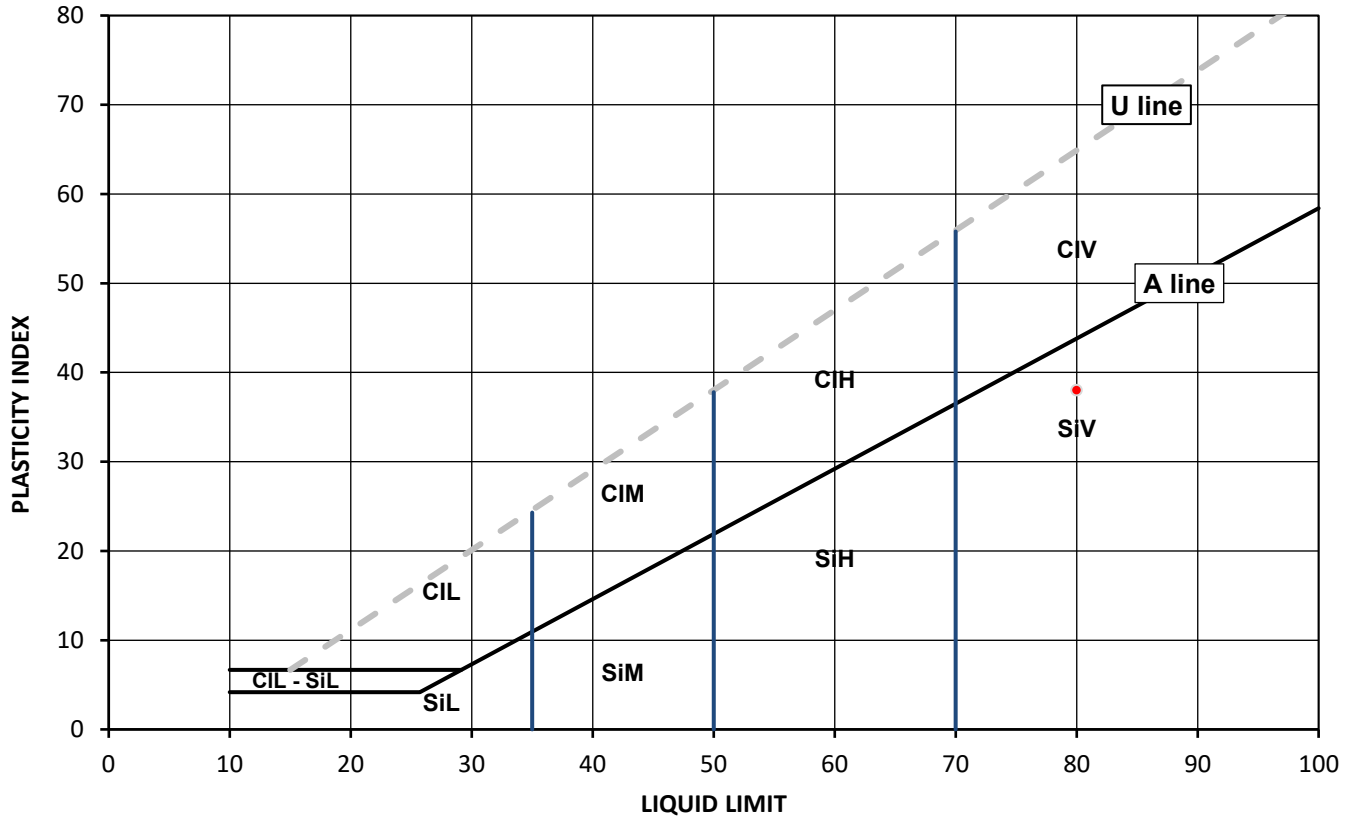
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	24/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720657	Depth Top [m]:	0.50
Hole No.:	MWS201	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brownish grey silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
45.1	80	42	38	0.08	0.92	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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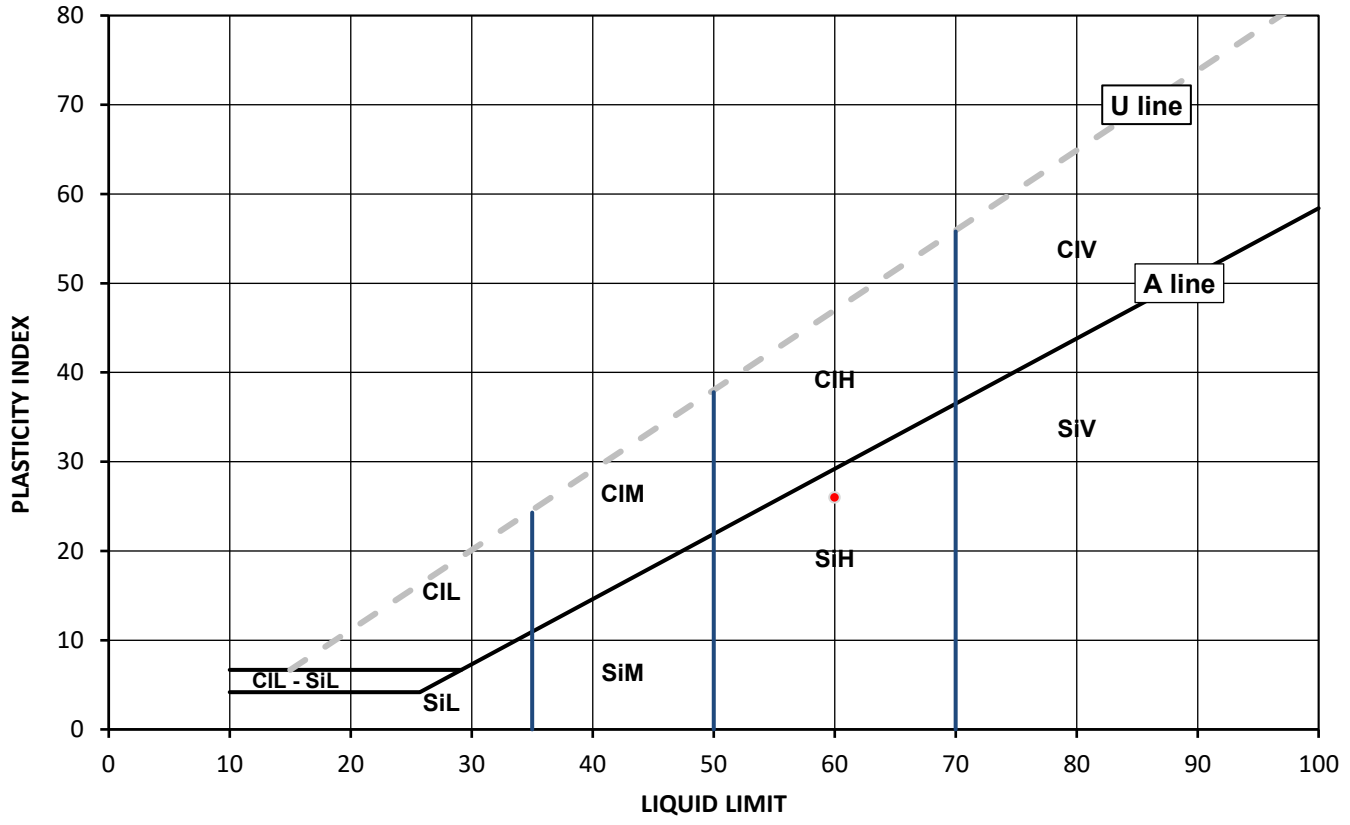
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	24/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720658	Depth Top [m]:	1.50
Hole No.:	MWS201	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brownish grey silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
22.3	60	34	26	-0.46	1.46	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
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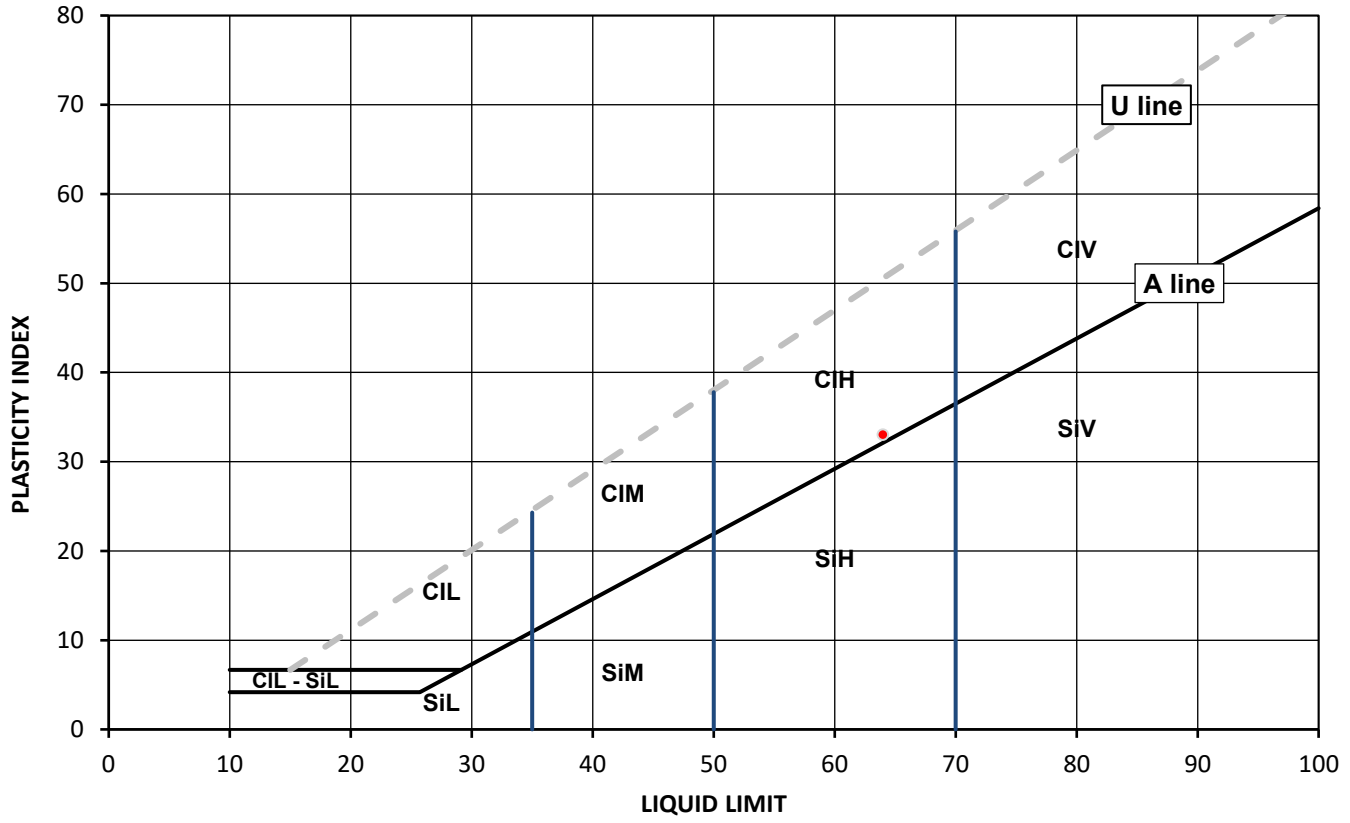
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	24/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720659	Depth Top [m]:	2.00
Hole No.:	MWS201	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brownish grey silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
22.6	64	31	33	-0.24	1.24	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 337.16

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022,cl 5.2 and 6

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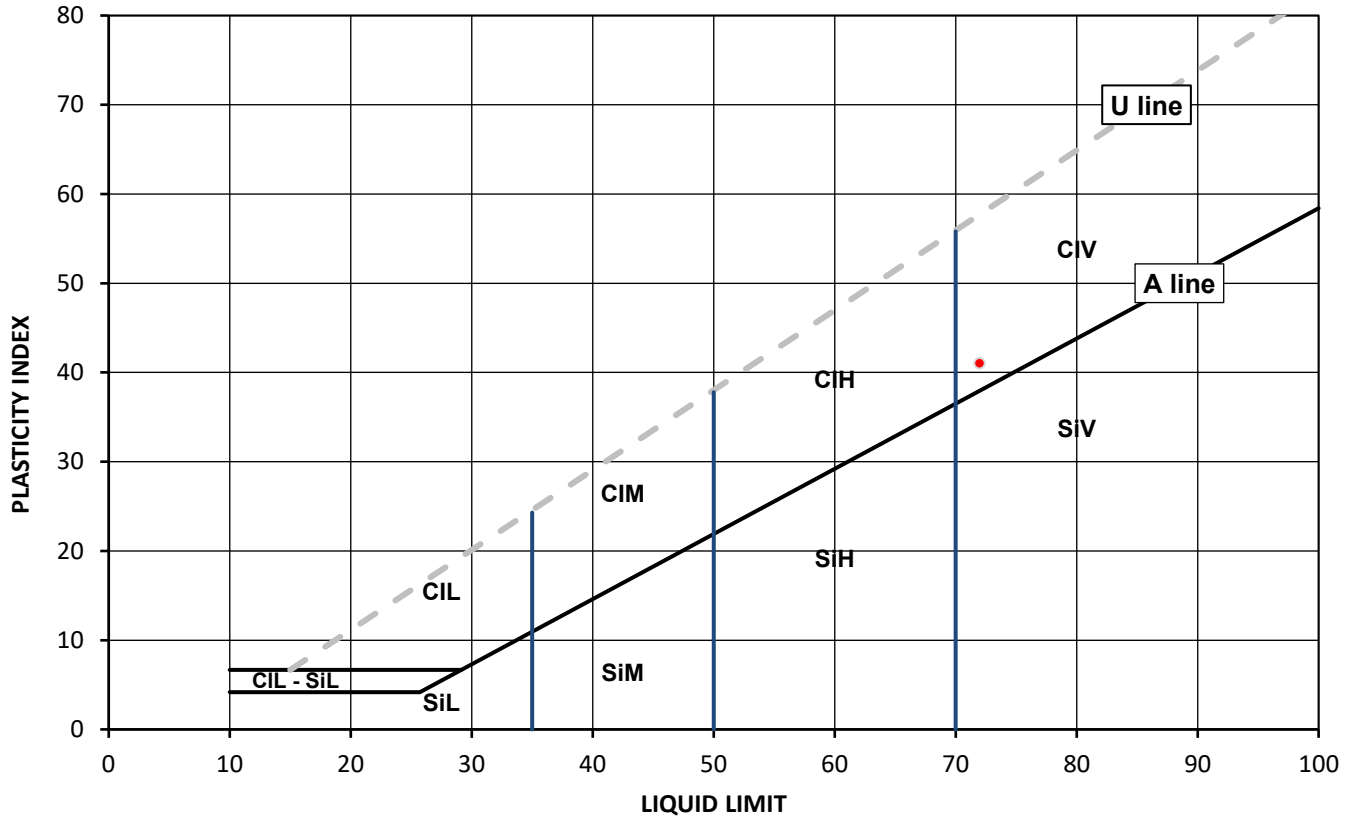
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	24/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720660	Depth Top [m]:	3.50
Hole No.:	MWS201	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light grey silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
26.6	72	31	41	-0.10	1.10	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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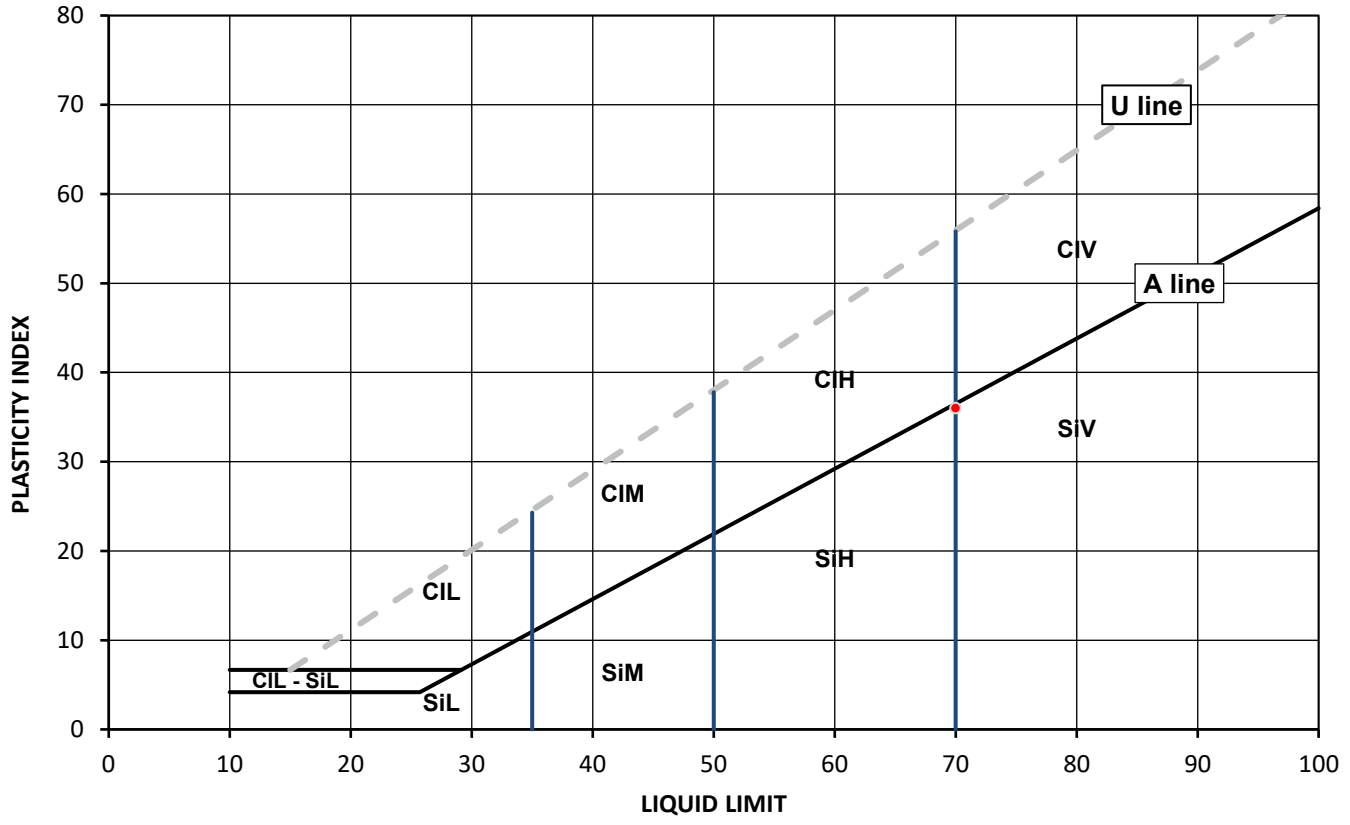
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	24/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720661	Depth Top [m]:	4.50
Hole No.:	MWS201	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brownish grey silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
26.6	70	34	36	-0.19	1.19	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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i2 Analytical Ltd, Unit 8, Harrowden Road, Brackmills Industrial Estate, Northampton, NN4 7EB

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022, cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022,cl 5.2 and 6

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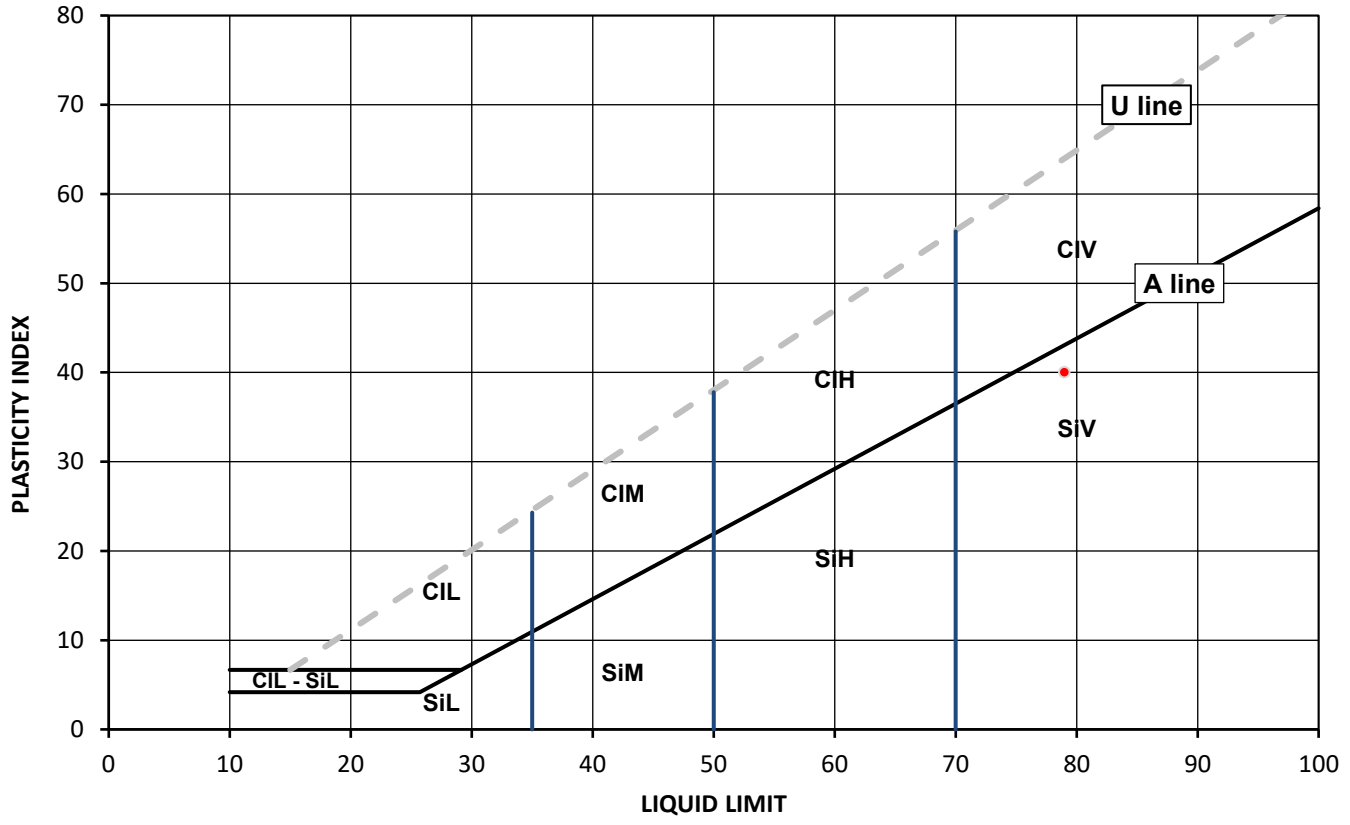
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	24/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720662	Depth Top [m]:	0.50
Hole No.:	MWS202	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brownish grey silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
41.5	79	39	40	0.08	0.93	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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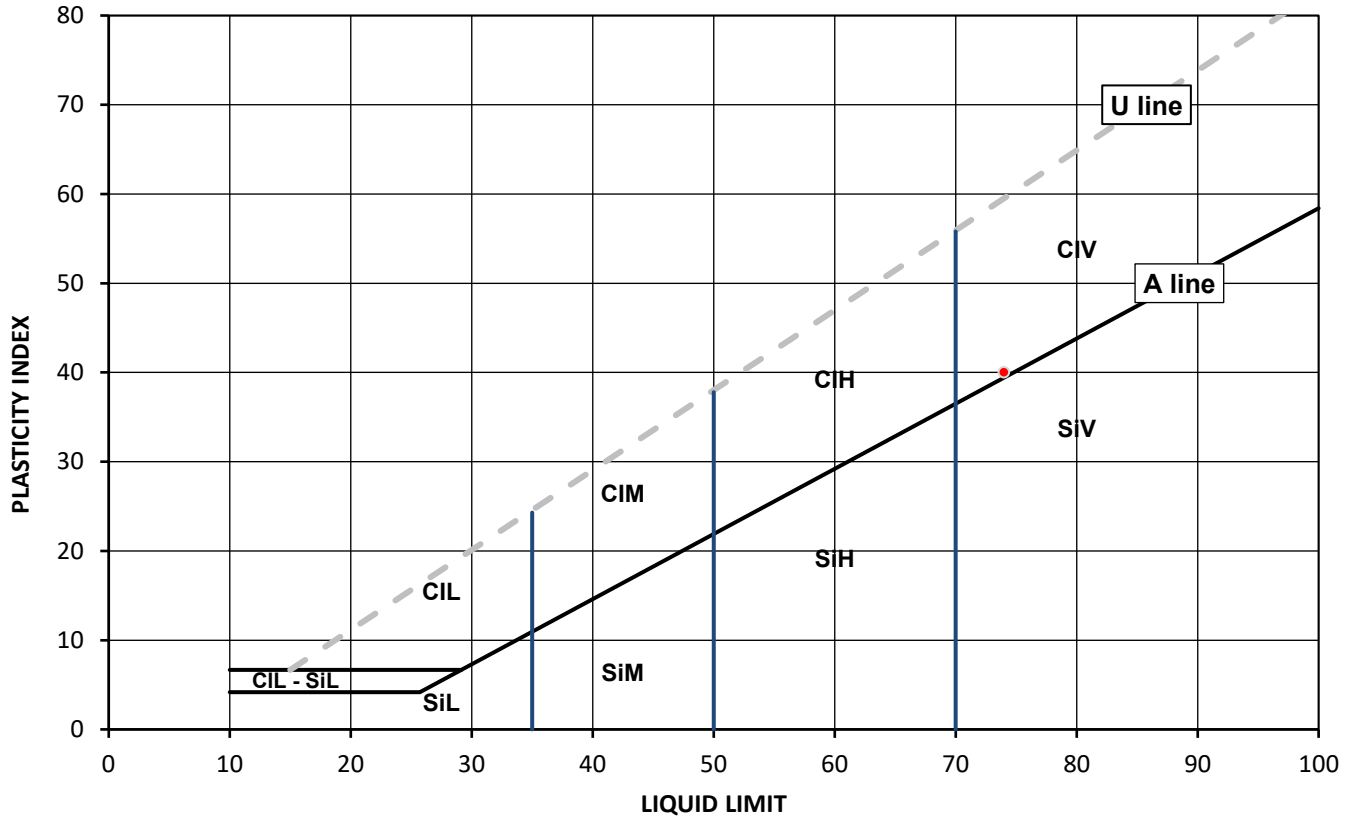
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	24/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720663	Depth Top [m]:	2.50
Hole No.:	MWS202	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light grey silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
18.5	74	34	40	-0.38	1.38	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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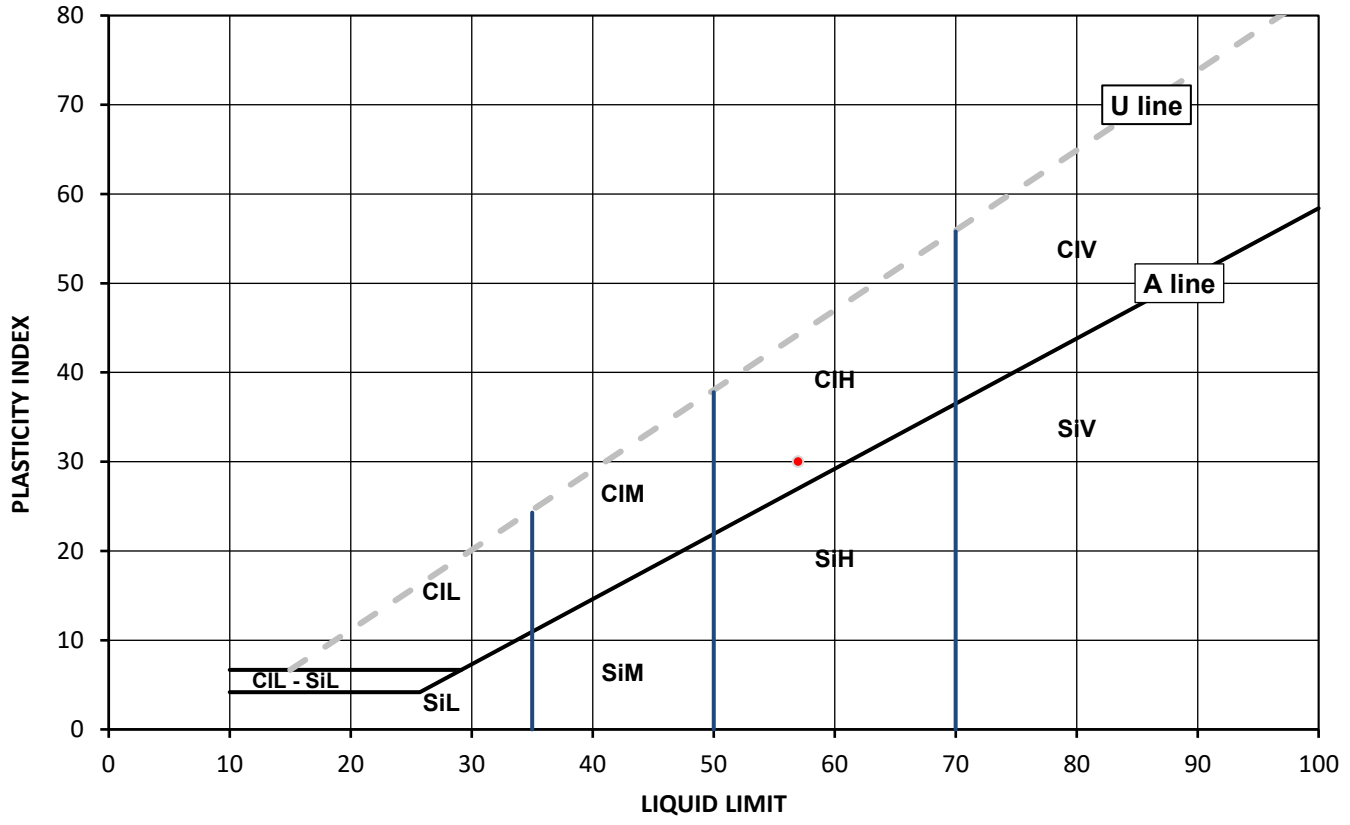
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	24/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720664	Depth Top [m]:	3.50
Hole No.:	MWS202	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light grey slightly sandy silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
19.8	57	27	30	-0.23	1.23	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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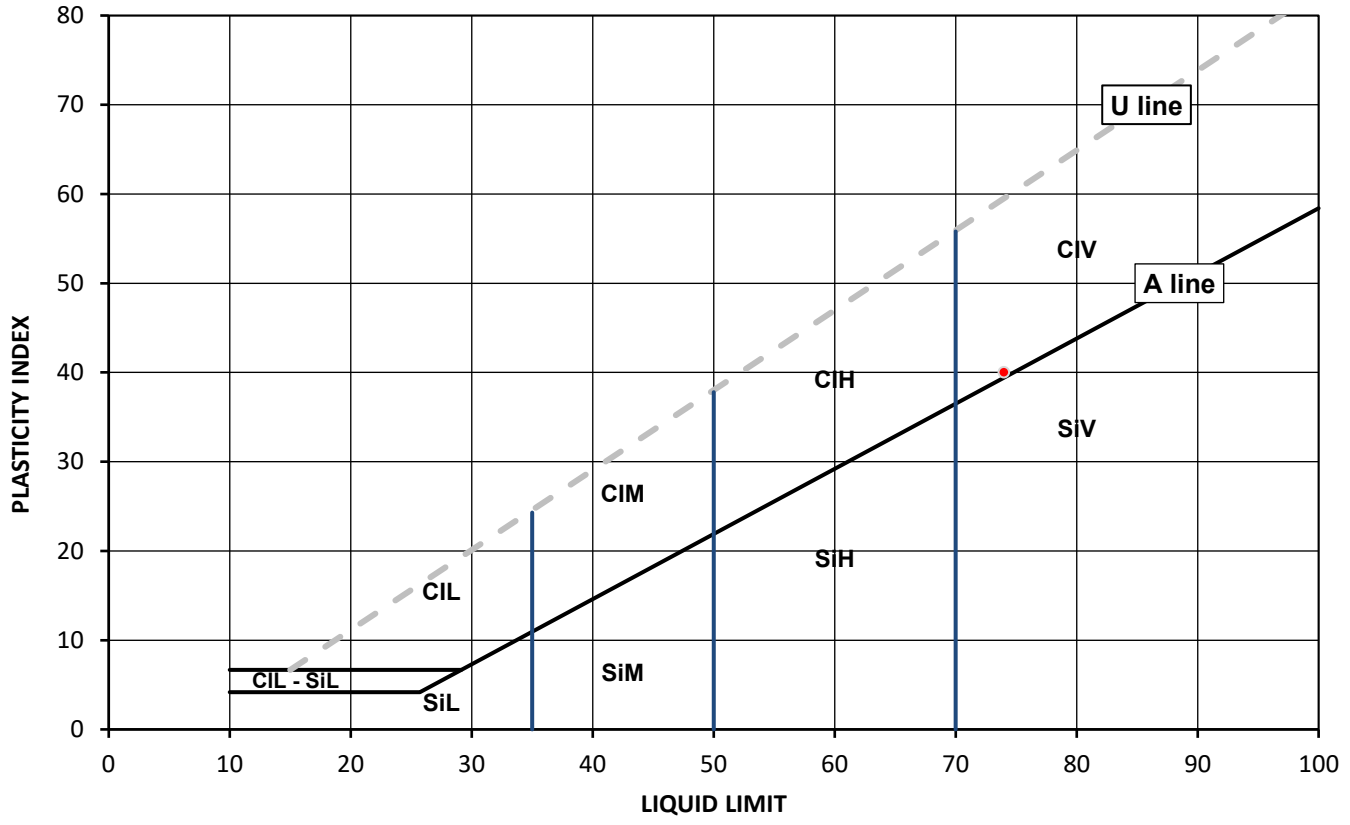
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Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	24/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720665	Depth Top [m]:	4.50
Hole No.:	MWS202	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brownish grey silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
27.7	74	34	40	-0.15	1.15	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

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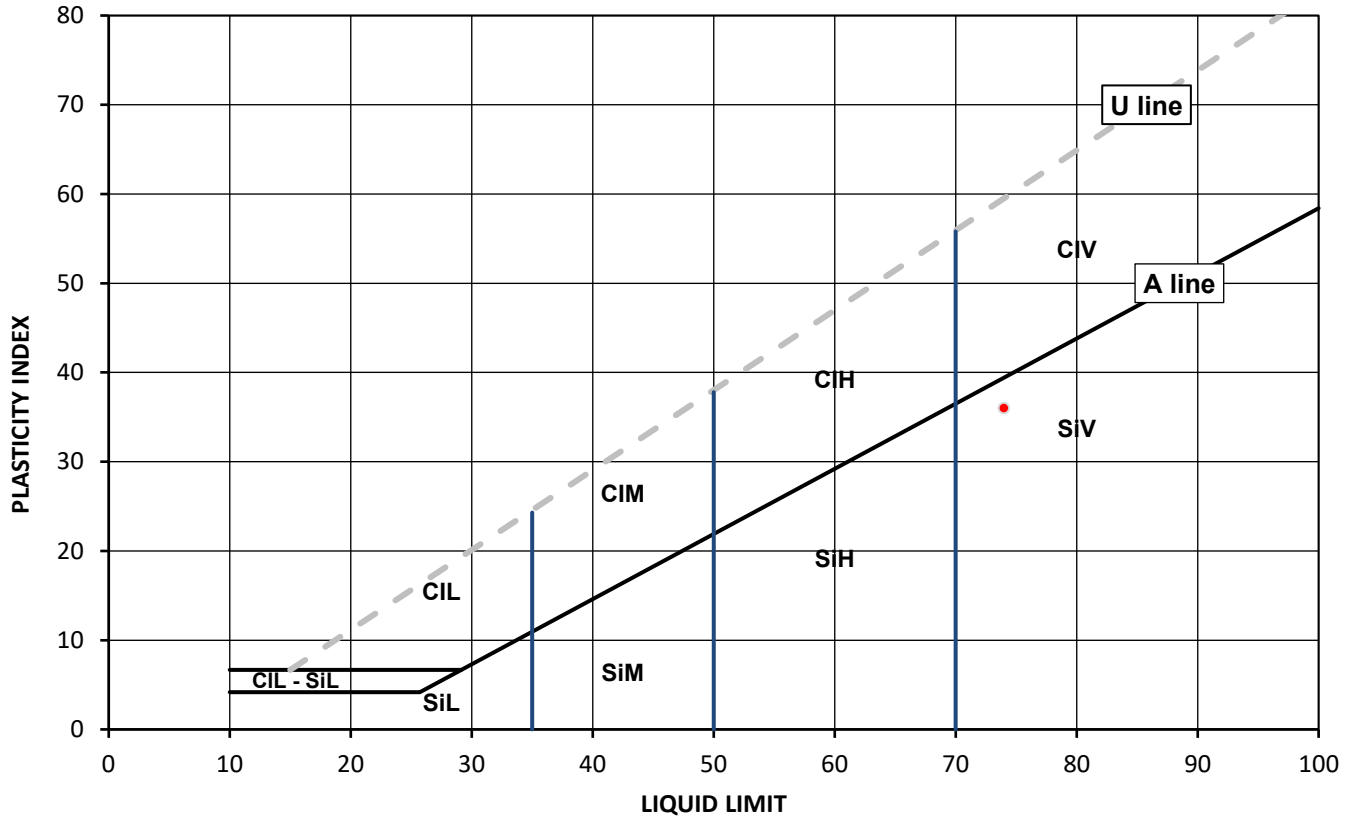
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	24/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720666	Depth Top [m]:	0.50
Hole No.:	MWS203	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brownish grey silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
38.3	74	38	36	0.00	1.00	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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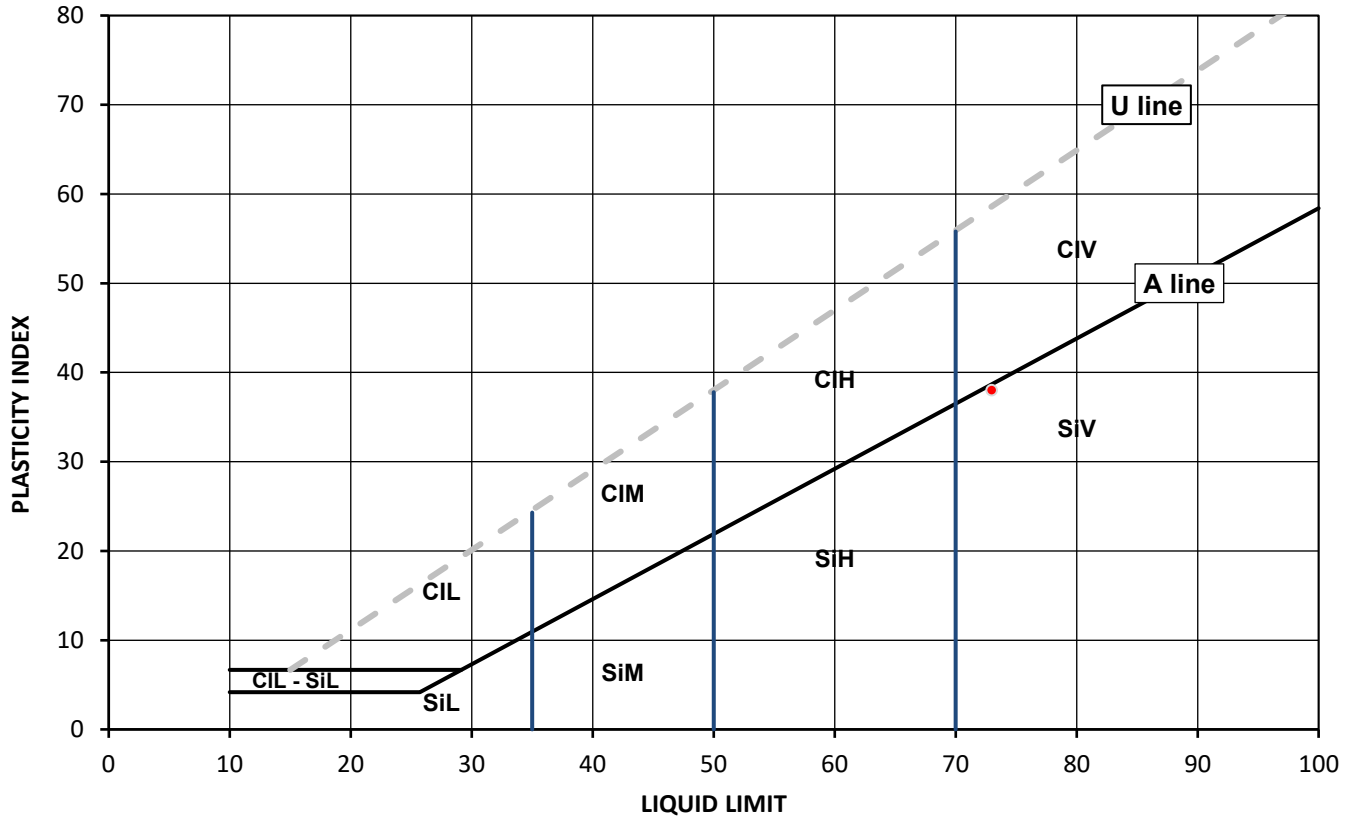
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Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	24/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720667	Depth Top [m]:	1.50
Hole No.:	MWS203	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brownish grey silty CLAY		
Sample Preparation:	Tested in natural condition; The water content in the sample was increased		
Cone Type:	80g/30deg		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
39.2	73	35	38	0.11	0.89	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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i2 Analytical Ltd, Unit 8, Harrowden Road, Brackmills Industrial Estate, Northampton, NN4 7EB

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022.

Normec i2 Analytical

4041

Client: Merebrook

Client Address: First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ

Contact: Charlie Oliveira

Site Address: Glebe Farm

Client Reference: 21949AH

Job Number: 25-056523-1

Date Sampled: 30/09 - 03/10/2025

Date Received: 08/10/2025

Date Tested: 24/10 - 27/10/2025

Sampled By: Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	WL* %	Correlation Factor	Wp %	Ip %	Cone type	Sample Preparation	bulk Mg/m3	dry Mg/m3	PD Mg/m3
720608	BH05	Not Given	1.00	Not Given	B	Greyish brown CLAY	Atterberg 4 Point	32.4	100	84	-	31	53	80g/30 deg	N / I			
720610	BH05	Not Given	2.90	Not Given	D	Light brownish grey CLAY	Atterberg 4 Point	24.4	100	79	-	29	50	80g/30 deg	N / I			
720611	BH05	Not Given	4.00	Not Given	D	Light brownish grey CLAY	Atterberg 4 Point	26.3	100	75	-	31	44	80g/30 deg	N / I			
720613	BH05	Not Given	4.85	Not Given	D	Light brownish grey silty CLAY	Atterberg 4 Point	30.6	100	77	-	34	43	80g/30 deg	N / I			
720615	BH06	Not Given	0.90	Not Given	B	Light brown slightly gravelly silty CLAY	Atterberg 4 Point	41.5	96	81	-	35	46	80g/30 deg	R / I			
720616	BH06	Not Given	2.50	Not Given	B	Greyish brown gravelly CLAY	Atterberg 4 Point	17.6	58	61	-	31	30	80g/30 deg	WR / I			
720617	BH06	Not Given	3.40	Not Given	B	Greyish brown gravelly silty CLAY	Atterberg 4 Point	31.0	64	60	-	30	30	80g/30 deg	WR / I			
720618	BH06	Not Given	5.00	Not Given	D	Light brownish grey silty CLAY	Atterberg 4 Point	24.4	100	61	-	33	28	80g/30 deg	N / I			
720619	MTP101	Not Given	1.00	Not Given	B	Greyish brown slightly sandy CLAY	Atterberg 4 Point	25.5	100	51	-	20	31	80g/30 deg	N / I			
720620	MTP101	Not Given	2.50	Not Given	B	Greyish brown silty CLAY	Atterberg 4 Point	47.0	100	72	-	40	32	80g/30 deg	N / I			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased , D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments:

Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

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Date Reported: 12/12/2025 **GF 362.17**

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022. Particle Density by pycnometer BS EN ISO 17892-3:2015.

Normec i2 Analytical

4041

Client: Merebrook

Client Address: First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ

Contact: Charlie Oliveira

Site Address: Glebe Farm

Client Reference: 21949AH

Job Number: 25-056523-1

Date Sampled: 30/09 - 06/10/2025

Date Received: 08/10/2025

Date Tested: 27/10 - 28/10/2025

Sampled By: Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	WL* %	Correlation Factor	Wp %	Ip %	Cone type	Sample Preparation	bulk Mg/m3	dry Mg/m3	PD Mg/m3
720621	MTP101	Not Given	3.30	Not Given	B	Light brown slightly gravelly silty CLAY	Atterberg 4 Point	33.7	93	77	-	39	38	80g/30 deg	WR / I			
720622	MTP102	Not Given	1.00	Not Given	B	Light brown slightly gravelly silty CLAY	Atterberg 4 Point	41.1	94	70	-	32	38	80g/30 deg	WR / I			
720624	MTP102	Not Given	3.10	Not Given	B	Greyish brown silty CLAY	Atterberg 4 Point	45.8	100	82	-	39	43	80g/30 deg	N / I			
720625	MTP103	Not Given	1.00	Not Given	B	Light brown slightly sandy CLAY	Atterberg 4 Point	22.4	100	48	-	22	26	80g/30 deg	N / I			
720626	MTP103	Not Given	2.20	Not Given	B	Greyish brown slightly gravelly CLAY	Atterberg 4 Point	33.3	99	81	-	32	49	80g/30 deg	WR / I			
720628	MTP104	Not Given	1.90	Not Given	B	Brown slightly gravelly CLAY	Atterberg 4 Point	29.7	80	60	-	23	37	80g/30 deg	WR / I			
720629	MTP104	Not Given	2.50	Not Given	B	Greyish brown slightly gravelly CLAY	Atterberg 4 Point	35.3	69	81	-	32	49	80g/30 deg	WR / I			
720631	MTP105	Not Given	2.00	Not Given	B	Greyish brown slightly gravelly slightly sandy silty CLAY												2.64
720634	MTP107 / CBR03	Not Given	2.20	Not Given	B	Light grey CLAY	Atterberg 4 Point	32.9	100	75	-	31	44	80g/30 deg	N / I			
720635	MTP107 / CBR03	Not Given	3.10	Not Given	B	Light brown CLAY	Atterberg 4 Point	23.3	100	63	-	23	40	80g/30 deg	N / I			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased , D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments:

Signed:

Monika Siewior
Senior Reporting Specialist
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Date Reported: 12/12/2025 **GF 362.17**

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022.

Normec i2 Analytical

4041

Client: Merebrook

Client Address: First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ

Contact: Charlie Oliveira

Site Address: Glebe Farm

Client Reference: 21949AH

Job Number: 25-056523-1

Date Sampled: 06/10 - 07/10/2025

Date Received: 08/10/2025

Date Tested: 27/10 - 28/10/2025

Sampled By: Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit						Density		
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	WL* %	Correlation Factor	Wp %	Ip %	Cone type	Sample Preparation	bulk Mg/m3	dry Mg/m3	PD Mg/m3
720637	MTP108 / CBR1	Not Given	1.40	Not Given	B	Light brown silty CLAY	Atterberg 4 Point	46.5	100	79	-	41	38	80g/30 deg	N / I			
720638	MTP108 / CBR1	Not Given	2.20	Not Given	B	Light brown slightly gravelly silty CLAY	Atterberg 4 Point	41.3	90	79	-	39	40	80g/30 deg	R / I			
720639	MTP108 / CBR1	Not Given	3.30	Not Given	B	Grey silty CLAY	Atterberg 4 Point	29.8	100	72	-	36	36	80g/30 deg	N / I			
720640	MTP109	Not Given	1.20	Not Given	B	Grey silty CLAY	Atterberg 4 Point	33.4	100	62	-	35	27	80g/30 deg	N / I			
720641	MTP109	Not Given	2.00	Not Given	B	Brownish grey gravelly silty CLAY	Atterberg 4 Point	28.2	54	77	-	37	40	80g/30 deg	WR / I			
720642	MTP11	Not Given	1.00	Not Given	B	Brown sandy CLAY	Atterberg 4 Point	21.6	100	45	-	18	27	80g/30 deg	N / I			
720643	MTP110	Not Given	1.10	Not Given	B	Light brown clayey SILT	Atterberg 4 Point	36.4	100	64	-	39	25	80g/30 deg	N / I			
720644	MTP110	Not Given	2.00	Not Given	B	Brownish grey slightly sandy silty CLAY	Atterberg 4 Point	14.9	100	54	-	31	23	80g/30 deg	N / I			
720645	MTP111 / CBR9	Not Given	2.00	Not Given	B	Light brown CLAY	Atterberg 4 Point	25.1	100	82	-	34	48	80g/30 deg	N / I			
720646	MTP111 / CBR9	Not Given	3.00	Not Given	B	Grey CLAY	Atterberg 4 Point	24.0	100	73	-	31	42	80g/30 deg	N / I			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased , D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments:

Signed:

Monika Siewior
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Date Reported: 12/12/2025 **GF 362.17**

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022.

Normec i2 Analytical

4041

Client: Merebrook

Client Address: First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ

Contact: Charlie Oliveira

Site Address: Glebe Farm

Client Reference: 21949AH

Job Number: 25-056523-1

Date Sampled: 07/10/2025

Date Received: 08/10/2025

Date Tested: 24/10 - 28/10/2025

Sampled By: Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit						Density		
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	WL* %	Correlation Factor	Wp %	Ip %	Cone type	Sample Preparation	bulk Mg/m3	dry Mg/m3	PD Mg/m3
720647	MTP112	Not Given	1.00	Not Given	B	Brown very gravelly sandy CLAY	Atterberg 4 Point	16.2	47	44	-	20	24	80g/30 deg	WR / I			
720648	MTP112	Not Given	2.00	Not Given	B	Light brown silty CLAY	Atterberg 4 Point	31.0	100	80	-	34	46	80g/30 deg	N / I			
720649	MTP112	Not Given	3.00	Not Given	B	Light brown silty CLAY	Atterberg 4 Point	28.4	100	76	-	33	43	80g/30 deg	N / I			
720650	MTP113	Not Given	0.50	Not Given	B	Brown clayey GRAVEL	Atterberg 4 Point	9.5	14	68	-	32	36	80g/30 deg	WR / I			
720651	MTP113	Not Given	1.50	Not Given	B	Grey silty CLAY	Atterberg 4 Point	31.0	100	75	-	33	42	80g/30 deg	N / I			
720652	MTP114	Not Given	0.90	Not Given	B	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	21.4	96	41	-	21	20	80g/30 deg	R / I			
720653	MTP114	Not Given	2.00	Not Given	B	Brown slightly gravelly CLAY	Atterberg 4 Point	34.1	99	71	-	29	42	80g/30 deg	R / I			
720654	MTP114	Not Given	3.30	Not Given	B	Light brown silty CLAY	Atterberg 4 Point	44.2	100	80	-	36	44	80g/30 deg	N / I			
720655	MTP115	Not Given	0.70	Not Given	B	Yellowish brown gravelly slightly sandy CLAY	Atterberg 4 Point	15.9	57	46	-	20	26	80g/30 deg	WR / I			
720656	MTP115	Not Given	1.70	Not Given	B	Light brown silty CLAY	Atterberg 4 Point	40.2	100	82	-	34	48	80g/30 deg	N / I			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased , D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments:

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Date Reported: 12/12/2025 **GF 362.17**

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022.

Normec i2 Analytical

4041

Client: Merebrook

Client Address: First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ

Contact: Charlie Oliveira

Site Address: Glebe Farm

Client Reference: 21949AH

Job Number: 25-056523-1

Date Sampled: 02/10/2025

Date Received: 08/10/2025

Date Tested: 24/10/2025

Sampled By: Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	WL* %	Correlation Factor	Wp %	Ip %	Cone type	Sample Preparation	bulk Mg/m3	dry Mg/m3	PD Mg/m3
720657	MWS201	Not Given	0.50	Not Given	B	Light brownish grey silty CLAY	Atterberg 4 Point	45.1	100	80	-	42	38	80g/30 deg	N / I			
720658	MWS201	Not Given	1.50	Not Given	B	Light brownish grey silty CLAY	Atterberg 4 Point	22.3	100	60	-	34	26	80g/30 deg	N / I			
720659	MWS201	Not Given	2.00	Not Given	B	Light brownish grey silty CLAY	Atterberg 4 Point	22.6	100	64	-	31	33	80g/30 deg	N / I			
720660	MWS201	Not Given	3.50	Not Given	B	Light grey silty CLAY	Atterberg 4 Point	26.6	100	72	-	31	41	80g/30 deg	N / I			
720661	MWS201	Not Given	4.50	Not Given	B	Light brownish grey silty CLAY	Atterberg 4 Point	26.6	100	70	-	34	36	80g/30 deg	N / I			
720662	MWS202	Not Given	0.50	Not Given	B	Brownish grey silty CLAY	Atterberg 4 Point	41.5	100	79	-	39	40	80g/30 deg	N / I			
720663	MWS202	Not Given	2.50	Not Given	B	Light grey silty CLAY	Atterberg 4 Point	18.5	100	74	-	34	40	80g/30 deg	N / I			
720664	MWS202	Not Given	3.50	Not Given	B	Light grey slightly sandy silty CLAY	Atterberg 4 Point	19.8	100	57	-	27	30	80g/30 deg	N / I			
720665	MWS202	Not Given	4.50	Not Given	B	Light brownish grey silty CLAY	Atterberg 4 Point	27.7	100	74	-	34	40	80g/30 deg	N / I			
720666	MWS203	Not Given	0.50	Not Given	B	Brownish grey silty CLAY	Atterberg 4 Point	38.3	100	74	-	38	36	80g/30 deg	N / I			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased , D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments:

Signed:

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Date Reported: 12/12/2025 **GF 362.17**

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022.

Normec i2 Analytical

4041

Client: Merebrook

Client Address: First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ

Contact: Charlie Oliveira

Site Address: Glebe Farm

Client Reference: 21949AH
Job Number: 25-056523-1
Date Sampled: 02/10/2025
Date Received: 08/10/2025
Date Tested: 24/10/2025
Sampled By: Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	WL* %	Correlation Factor	Wp %	Ip %	Cone type	Sample Preparation	bulk Mg/m3	dry Mg/m3	PD Mg/m3
720667	MWS203	Not Given	1.50	Not Given	B	Brownish grey silty CLAY	Atterberg 4 Point	39.2	100	73	-	35	38	80g/30 deg	N / I			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased , D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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Signed:

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Date Reported: 12/12/2025 **GF 362.17**

SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1

4041

Client: Merebrook

Client Address: First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ

Contact: Charlie Oliveira

Site Address: Glebe Farm

Client Reference: 21949AH
Job Number: 25-056523-1
Date Sampled: 30/09 - 03/10/2025
Date Received: 08/10/2025
Date Tested: 24/10 - 27/10/2025
Sampled By: Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type			%											
720608	BH05	Not Given	1.00	Not Given	B	Greyish brown CLAY		32.4											
720610	BH05	Not Given	2.90	Not Given	D	Light brownish grey CLAY		24.4											
720611	BH05	Not Given	4.00	Not Given	D	Light brownish grey CLAY		26.3											
720613	BH05	Not Given	4.85	Not Given	D	Light brownish grey silty CLAY		30.6											
720615	BH06	Not Given	0.90	Not Given	B	Light brown slightly gravelly silty CLAY		41.5											
720616	BH06	Not Given	2.50	Not Given	B	Greyish brown gravelly CLAY		17.6											
720617	BH06	Not Given	3.40	Not Given	B	Greyish brown gravelly silty CLAY		31.0											
720618	BH06	Not Given	5.00	Not Given	D	Light brownish grey silty CLAY		24.4											
720619	MTP101	Not Given	1.00	Not Given	B	Greyish brown slightly sandy CLAY		25.5											
720620	MTP101	Not Given	2.50	Not Given	B	Greyish brown silty CLAY		47.0											

Comments:

Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

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Date Reported: 12/12/2025

GF 126.20

SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1

4041

Client: Merebrook

Client Address: First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ

Contact: Charlie Oliveira

Site Address: Glebe Farm

Client Reference: 21949AH
Job Number: 25-056523-1
Date Sampled: 30/09 - 06/10/2025
Date Received: 08/10/2025
Date Tested: 27/10 - 28/10/2025
Sampled By: Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type			%											
720621	MTP101	Not Given	3.30	Not Given	B	Light brown slightly gravelly silty CLAY		33.7											
720622	MTP102	Not Given	1.00	Not Given	B	Light brown slightly gravelly silty CLAY		41.1											
720624	MTP102	Not Given	3.10	Not Given	B	Greyish brown silty CLAY		45.8											
720625	MTP103	Not Given	1.00	Not Given	B	Light brown slightly sandy CLAY		22.4											
720626	MTP103	Not Given	2.20	Not Given	B	Greyish brown slightly gravelly CLAY		33.3											
720628	MTP104	Not Given	1.90	Not Given	B	Brown slightly gravelly CLAY		29.7											
720629	MTP104	Not Given	2.50	Not Given	B	Greyish brown slightly gravelly CLAY		35.3											
720634	MTP107 / CBR03	Not Given	2.20	Not Given	B	Light grey CLAY		32.9											
720635	MTP107 / CBR03	Not Given	3.10	Not Given	B	Light brown CLAY		23.3											
720637	MTP108 / CBR1	Not Given	1.40	Not Given	B	Light brown silty CLAY		46.5											

Comments:

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 126.20

SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1

4041

Client: Merebrook

Client Address: First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ

Contact: Charlie Oliveira

Site Address: Glebe Farm

Client Reference: 21949AH
Job Number: 25-056523-1
Date Sampled: 06/10 - 07/10/2025
Date Received: 08/10/2025
Date Tested: 27/10 - 28/10/2025
Sampled By: Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type			%											
720638	MTP108 / CBR1	Not Given	2.20	Not Given	B	Light brown slightly gravelly silty CLAY		41.3											
720639	MTP108 / CBR1	Not Given	3.30	Not Given	B	Grey silty CLAY		29.8											
720640	MTP109	Not Given	1.20	Not Given	B	Grey silty CLAY		33.4											
720641	MTP109	Not Given	2.00	Not Given	B	Brownish grey gravelly silty CLAY		28.2											
720642	MTP11	Not Given	1.00	Not Given	B	Brown sandy CLAY		21.6											
720643	MTP110	Not Given	1.10	Not Given	B	Light brown clayey SILT		36.4											
720644	MTP110	Not Given	2.00	Not Given	B	Brownish grey slightly sandy silty CLAY		14.9											
720645	MTP111 / CBR9	Not Given	2.00	Not Given	B	Light brown CLAY		25.1											
720646	MTP111 / CBR9	Not Given	3.00	Not Given	B	Grey CLAY		24.0											
720647	MTP112	Not Given	1.00	Not Given	B	Brown very gravelly sandy CLAY		16.2											

Comments:

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 126.20

SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1

4041

Client: Merebrook

Client Address: First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ

Contact: Charlie Oliveira

Site Address: Glebe Farm

Client Reference: 21949AH
Job Number: 25-056523-1
Date Sampled: 02/10 - 07/10/2025
Date Received: 08/10/2025
Date Tested: 24/10 - 28/10/2025
Sampled By: Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type			%											
720648	MTP112	Not Given	2.00	Not Given	B	Light brown silty CLAY		31.0											
720649	MTP112	Not Given	3.00	Not Given	B	Light brown silty CLAY		28.4											
720650	MTP113	Not Given	0.50	Not Given	B	Brown clayey GRAVEL		9.5											
720651	MTP113	Not Given	1.50	Not Given	B	Grey silty CLAY		31.0											
720652	MTP114	Not Given	0.90	Not Given	B	Brown slightly gravelly sandy CLAY		21.4											
720653	MTP114	Not Given	2.00	Not Given	B	Brown slightly gravelly CLAY		34.1											
720654	MTP114	Not Given	3.30	Not Given	B	Light brown silty CLAY		44.2											
720655	MTP115	Not Given	0.70	Not Given	B	Yellowish brown gravelly slightly sandy CLAY		15.9											
720656	MTP115	Not Given	1.70	Not Given	B	Light brown silty CLAY		40.2											
720657	MWS201	Not Given	0.50	Not Given	B	Light brownish grey silty CLAY		45.1											

Comments:

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 126.20

SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1

4041

Client: Merebrook

Client Address: First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ

Contact: Charlie Oliveira

Site Address: Glebe Farm

Client Reference: 21949AH
Job Number: 25-056523-1
Date Sampled: 02/10/2025
Date Received: 08/10/2025
Date Tested: 24/10/2025
Sampled By: Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type			%											
720658	MWS201	Not Given	1.50	Not Given	B	Light brownish grey silty CLAY		22.3											
720659	MWS201	Not Given	2.00	Not Given	B	Light brownish grey silty CLAY		22.6											
720660	MWS201	Not Given	3.50	Not Given	B	Light grey silty CLAY		26.6											
720661	MWS201	Not Given	4.50	Not Given	B	Light brownish grey silty CLAY		26.6											
720662	MWS202	Not Given	0.50	Not Given	B	Brownish grey silty CLAY		41.5											
720663	MWS202	Not Given	2.50	Not Given	B	Light grey silty CLAY		18.5											
720664	MWS202	Not Given	3.50	Not Given	B	Light grey slightly sandy silty CLAY		19.8											
720665	MWS202	Not Given	4.50	Not Given	B	Light brownish grey silty CLAY		27.7											
720666	MWS203	Not Given	0.50	Not Given	B	Brownish grey silty CLAY		38.3											
720667	MWS203	Not Given	1.50	Not Given	B	Brownish grey silty CLAY		39.2											

Comments:

Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

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Date Reported: 12/12/2025

GF 126.20

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016, BS 1377-2:2022 cl. 10

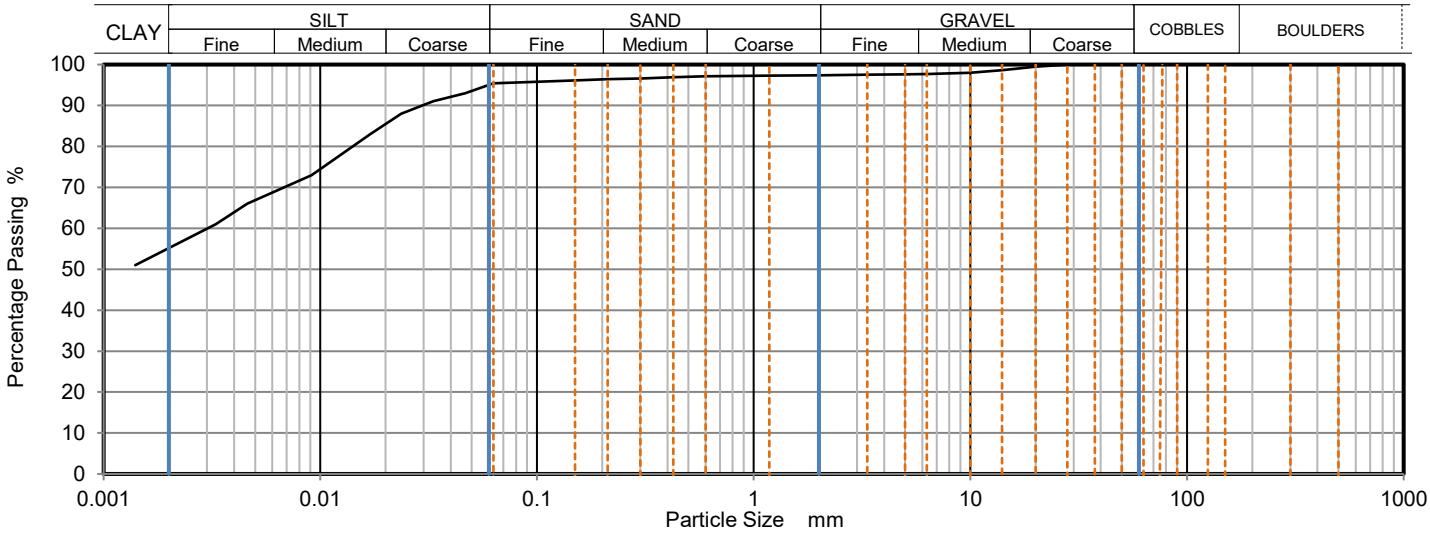
4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	27/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720631	Depth Top [m]:	2.00
Hole No.:	MTP105	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Greyish brown slightly gravelly slightly sandy silty CLAY		
Sample Preparation:	Sample was quartered, oven dried at 106.1 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0466	93
300	100	0.0332	91
150	100	0.0236	88
125	100	0.0170	83
90	100	0.0091	73
75	100	0.0046	66
63	100	0.0033	61
50	100	0.0014	51
37.5	100		
28	100		
20	100		
14	99		
10	98		
6.3	98		
5	98		
3.35	98		
2	97		
1.18	97		
0.6	97	Particle density	(measured)
0.425	97	2.64	Mg/m3
0.3	97		
0.212	96		
0.15	96		
0.063	95		

Sample Proportions	% dry mass
Very coarse	0
Gravel	3
Sand	2
Silt	40
Clay	55

Grading Analysis		
D100	mm	28
D60	mm	0.00298
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving and hydrometer sedimentation

Remarks:

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 366.13

i2 Analytical Ltd, Unit 8, Harrowden Road, Brackmills Industrial Estate, Northampton, NN4 7EB

SUMMARY REPORT

DETERMINATION OF PARTICLE DENSITY - FLUID PYCNOMETER METHOD

Tested in Accordance with: BS EN ISO 17892-3: 2015

4041

Client: Merebrook

Client Address: First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ

Contact: Charlie Oliveira

Site Address: Glebe Farm

Client Reference: 21949AH

Job Number: 25-056523-1

Date Sampled: 30/09/2025

Date Received: 08/10/2025

Date Tested: 27/10/2025

Sampled By: Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	PD	WC	Preparation			
		Reference	Depth Top m	Depth Base m	Type			Mg/m3	%				
720631	MTP105	Not Given	2.00	Not Given	B	Greyish brown slightly gravelly slightly sandy silty CLAY		2.64	36.8	quartered			

Note: PD - Particle Density; WC - Water Content by BS EN ISO 17892-1

Comments:

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 170.14

4041

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/WATER CONTENT RELATIONSHIP COMPACTION METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-2: 2022, cl.11

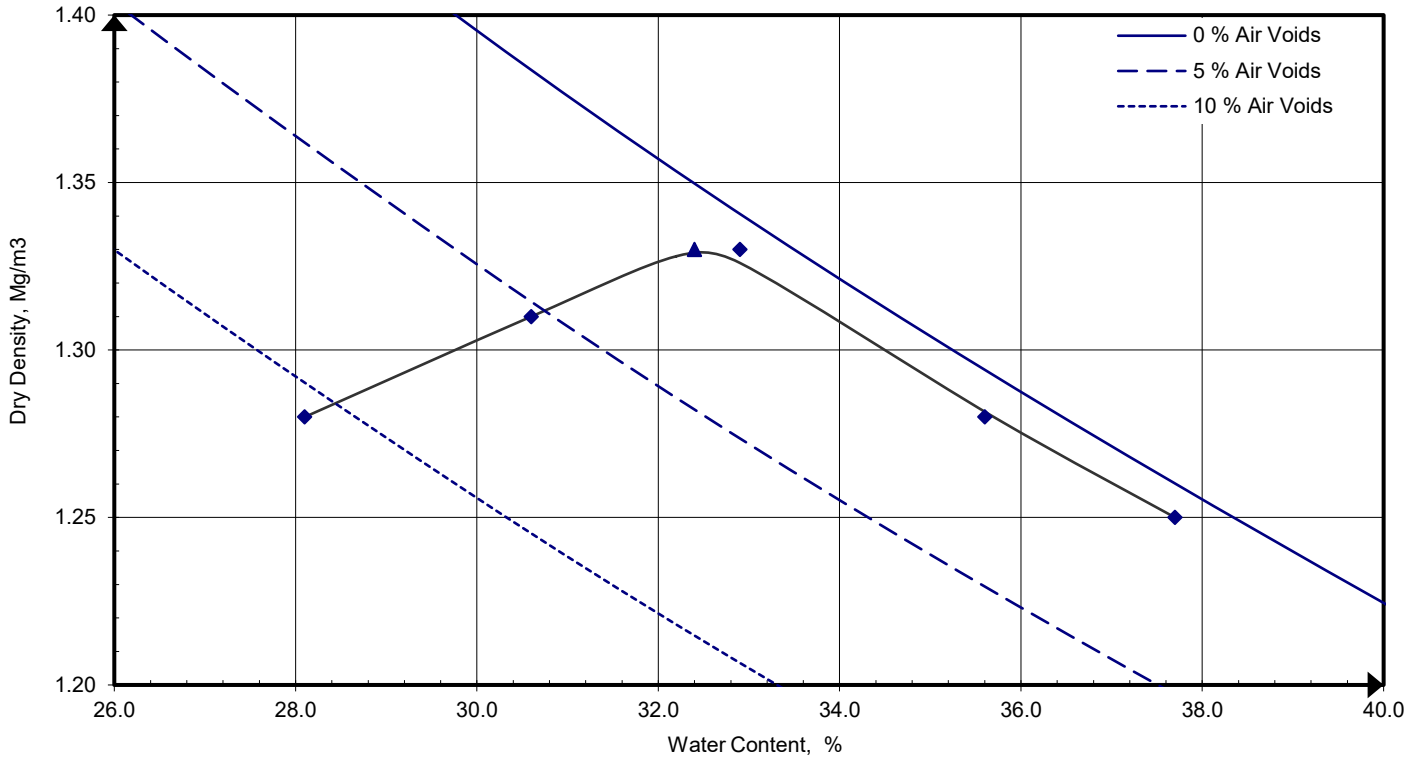
Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	12/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720623	Depth Top [m]:	2.30
Hole No.:	MTP102	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown slightly silty CLAY		
Sample Preparation:	Sample was whole tested and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Water Content	%	28.1	30.6	32.9	35.6	37.7
Dry Density	Mg/m³	1.28	1.31	1.33	1.28	1.25

Grading zone	1
Mould Type	CBR
Samples Used	Single sample tested

Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	0
Particle Density - Assumed	Mg/m³	2.40
As received Water Content	%	47.9
Maximum Dry Density	Mg/m³	**1.33**

Optimum Water Content	%	**32**

Note: BS 1377-2:2022, CL 11.4

Remarks: Test specimen used for water content determination, of each compaction point, was smaller than the recommended mass, as per BS EN ISO 17892-1: 2014+A1: 2022, Table 1

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Signed: Monika Siewior

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 599.3

i2 Analytical Ltd, Unit 8, Harrowden Road, Brackmills Industrial Estate, Northampton, NN4 7EB

4041

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/WATER CONTENT RELATIONSHIP COMPACTION METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-2: 2022, cl.11

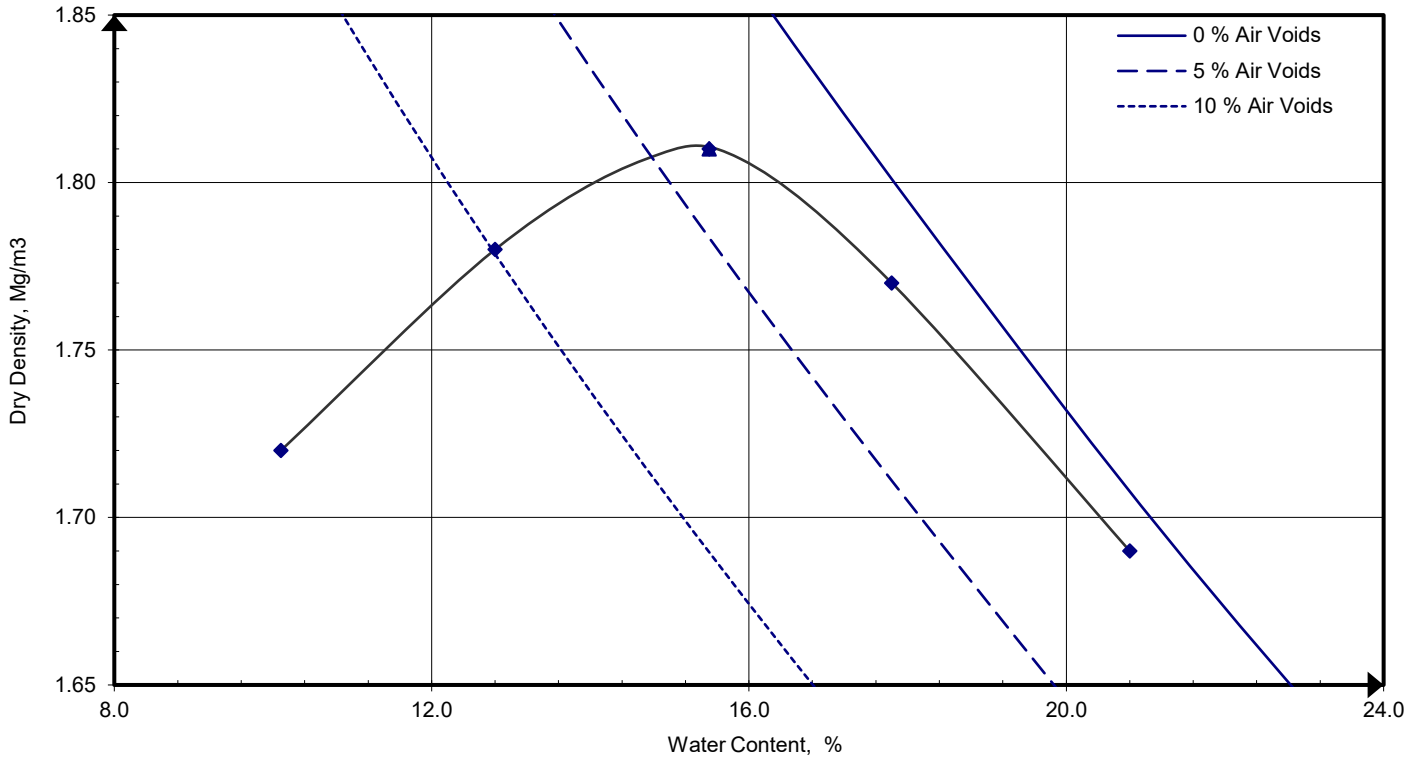
Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	12/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720627	Depth Top [m]:	0.90
Hole No.:	MTP104	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown silty CLAY		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Water Content	%	10.1	12.8	15.5	17.8	20.8
Dry Density	Mg/m³	1.72	1.78	1.81	1.77	1.69

Grading zone	2
Mould Type	CBR
Samples Used	Single sample tested

Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	0
Particle Density - Assumed	Mg/m³	2.65
As received Water Content	%	20.8
Maximum Dry Density	Mg/m³	**1.81**

Optimum Water Content	%	**16**

Note: BS 1377-2:2022, CL 11.4

Remarks: Test specimen used for water content determination, of each compaction point, was smaller than the recommended mass, as per BS EN ISO 17892-1: 2014+A1: 2022, Table 1

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Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 599.3

i2 Analytical Ltd, Unit 8, Harrowden Road, Brackmills Industrial Estate, Northampton, NN4 7EB

4041

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/WATER CONTENT RELATIONSHIP COMPACTION METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-2: 2022, cl.11

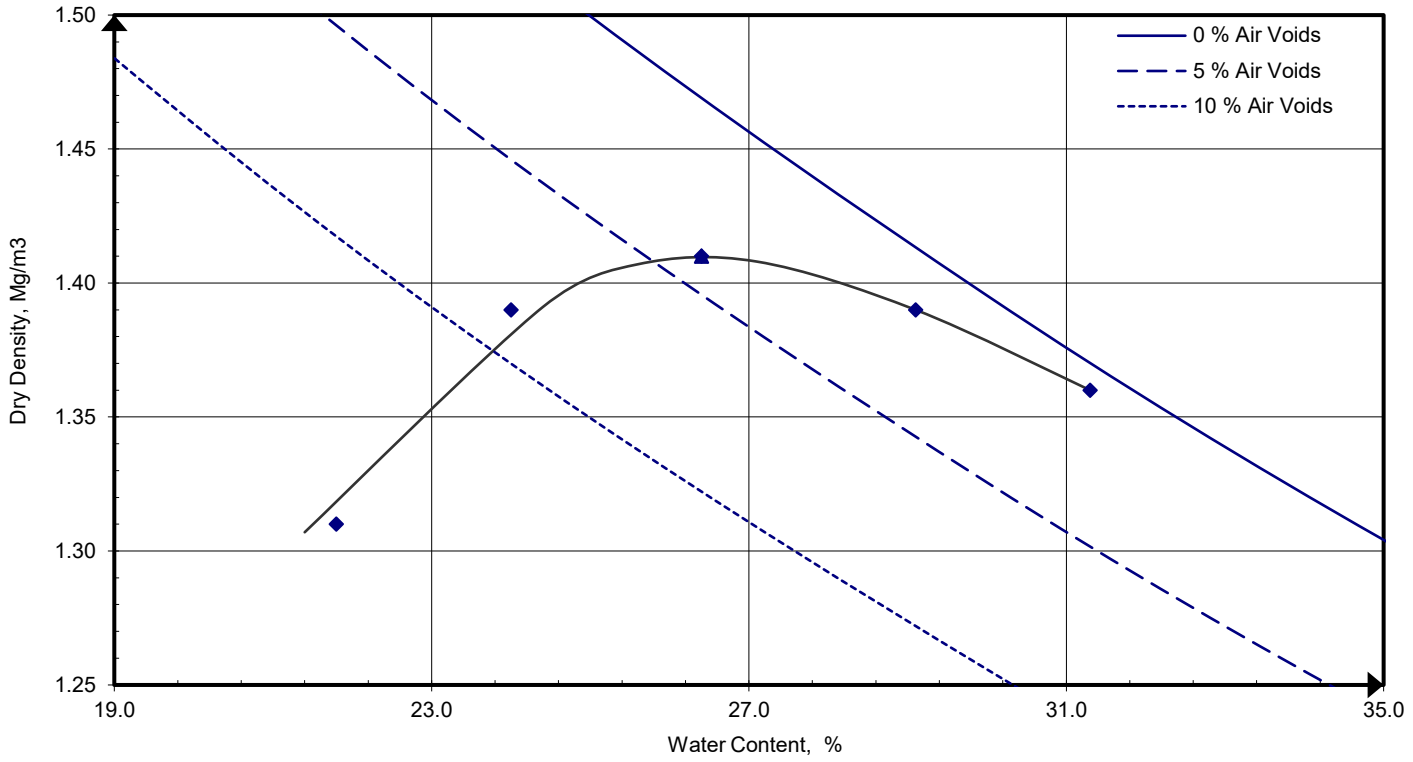
Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	12/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720630	Depth Top [m]:	1.00
Hole No.:	MTP105	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		
Sample Preparation:	Sample was whole tested and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Water Content	%	21.8	24.0	26.4	29.1	31.3
Dry Density	Mg/m³	1.31	1.39	1.41	1.39	1.36

Grading zone	1
Mould Type	CBR
Samples Used	Single sample tested

Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	0
Particle Density - Assumed	Mg/m³	2.40
As received Water Content	%	42.5
Maximum Dry Density	Mg/m³	**1.41**

Optimum Water Content	%	**26**

Note: BS 1377-2:2022, CL 11.4

Remarks: Test specimen used for water content determination, of each compaction point, was smaller than the recommended mass, as per BS EN ISO 17892-1: 2014+A1: 2022, Table 1

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Signed: Monika Siewior

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 599.3

i2 Analytical Ltd, Unit 8, Harrowden Road, Brackmills Industrial Estate, Northampton, NN4 7EB

4041

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	12/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

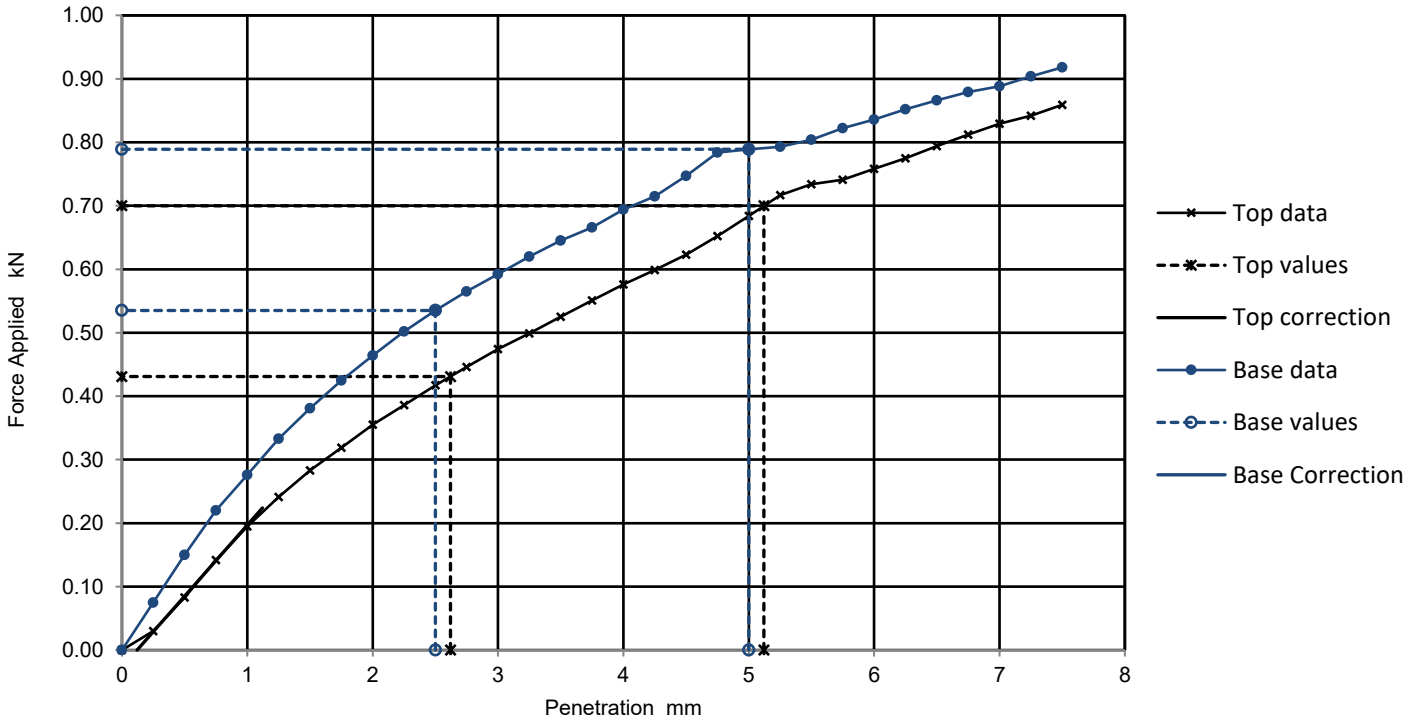
Test Results:

Laboratory Reference:	720632	Depth Top [m]:	0.40
Hole No.:	MTP106 / CBR5	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	days
				Time to surface	days
				Amount of swell recorded	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density	1.71	Mg/m3	Surcharge applied	8 kg
	Dry density	1.18	Mg/m3		4.8 kPa
	Water content	44.6	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	3.3	3.5	3.5	3.8	45.7
BASE	No	4.1	3.9	4.1		45.6

Remarks:

Test/ Specimen specific remarks:

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Signed: Monika Siewior

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 593.3

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	12/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

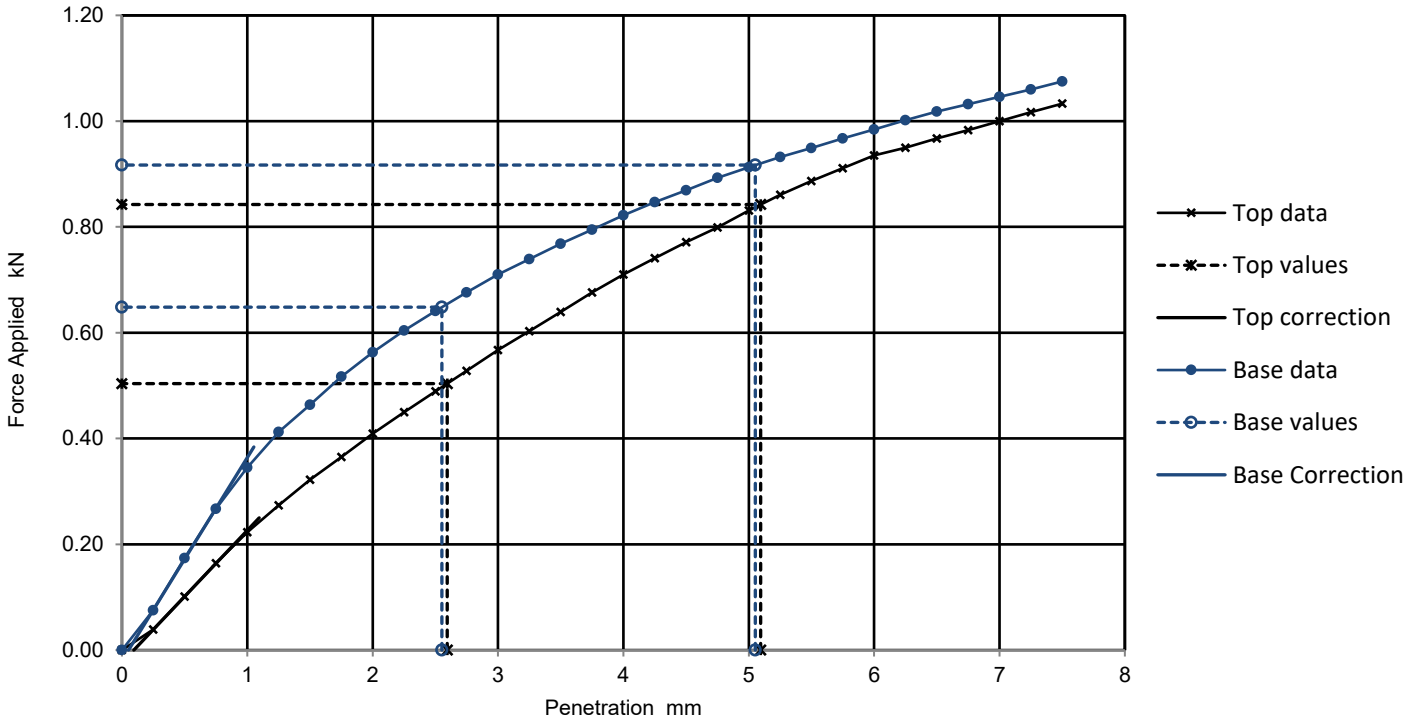
Laboratory Reference:	720633	Depth Top [m]:	0.40
Hole No.:	MTP106 / CBR03	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	1.69	Mg/m3	Surcharge applied	8 kg
	Dry density	1.18	Mg/m3		4.8 kPa
	Water content	43.7	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	3.8	4.2	4.2	4.6	43.2
BASE	Yes	4.9	4.6	4.9		43

Remarks:

Test/ Specimen specific remarks:

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 593.3

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	12/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

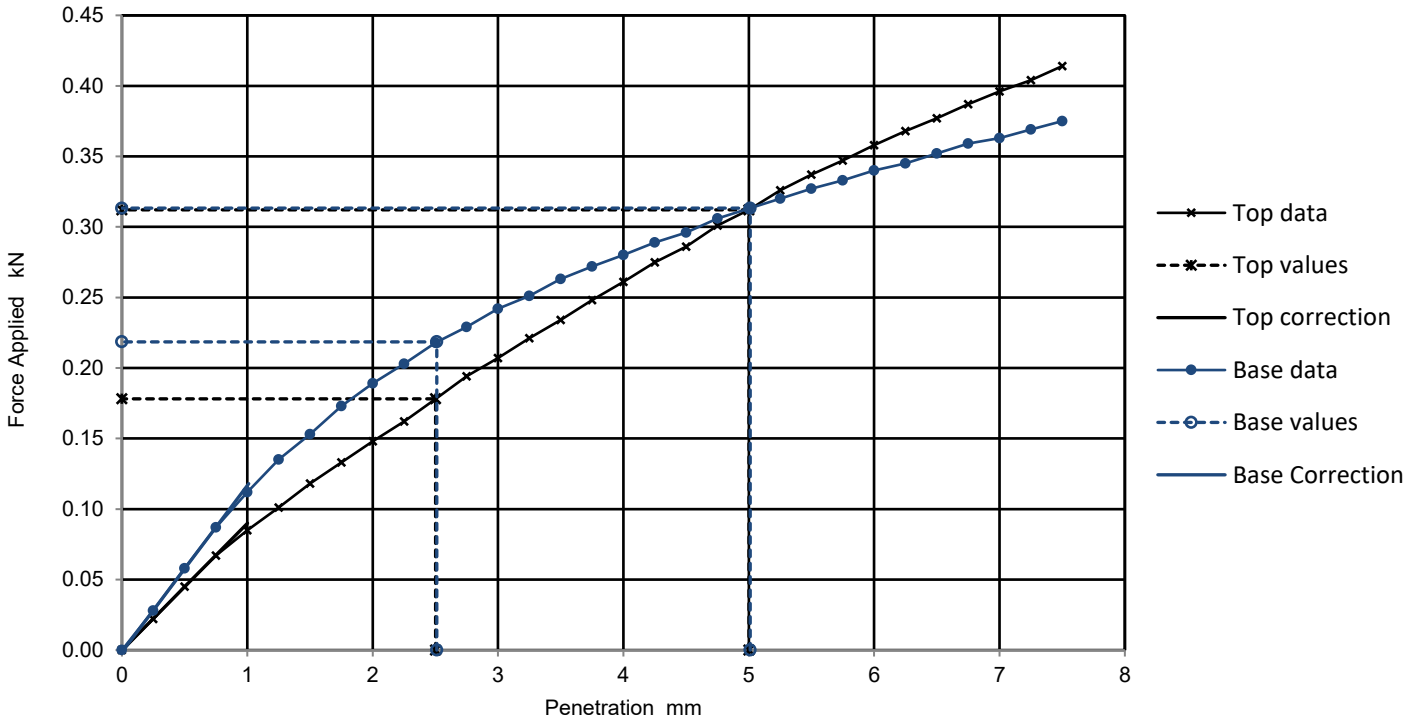
Test Results:

Laboratory Reference:	720636	Depth Top [m]:	0.50
Hole No.:	MTP108 / CBR1	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	days
				Time to surface	days
				Amount of swell recorded	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density	1.80	Mg/m3	Surcharge applied	8 kg
	Dry density	1.17	Mg/m3		4.8 kPa
	Water content	53.3	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	1.3	1.6	1.6	1.6	53.2
BASE	Yes	1.7	1.6	1.7		53.3

Remarks:

Test/ Specimen specific remarks:

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 593.3

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	13/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

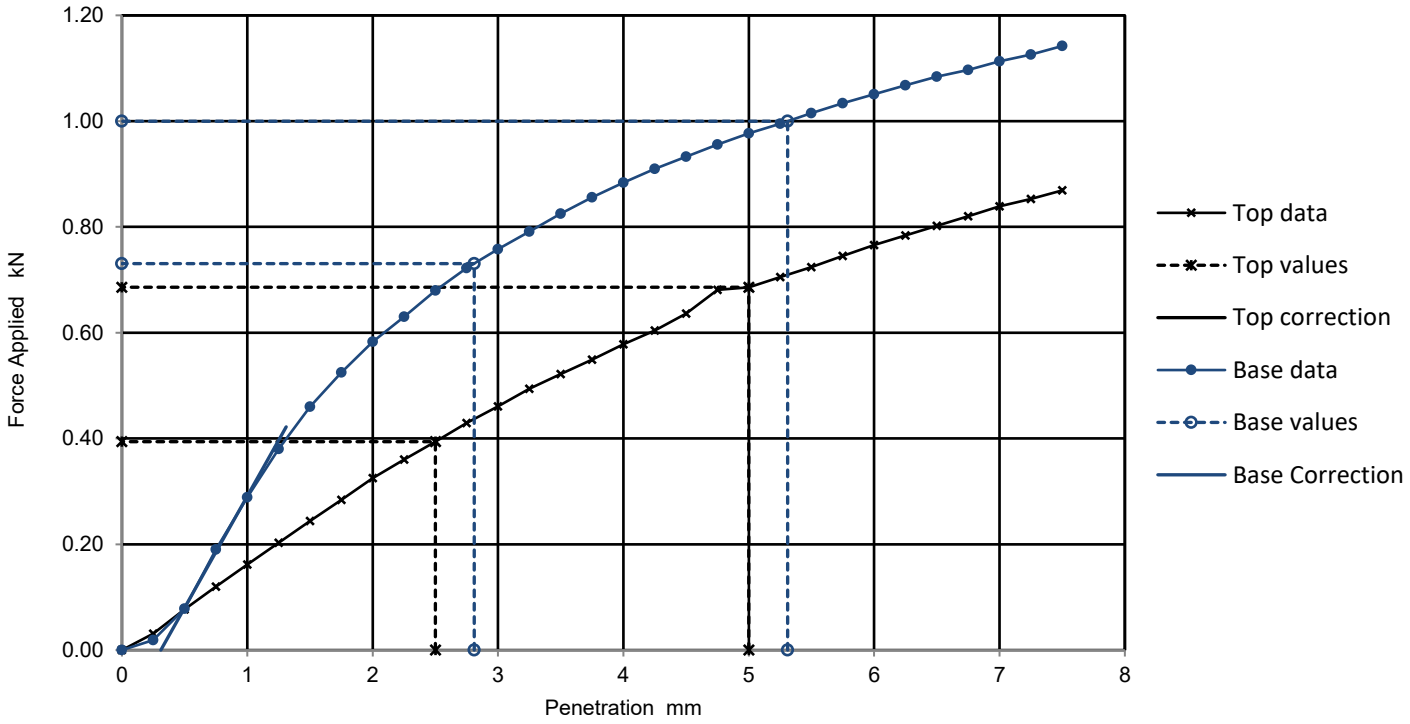
Laboratory Reference:	720668	Depth Top [m]:	0.40
Hole No.:	CBR10 (OCT 25)	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Yellowish brown CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	1.73	Mg/m3	Surcharge applied	8 kg
	Dry density	1.23	Mg/m3		4.9 kPa
	Water content	41.1	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	No	3	3.4	3.4		40.7
BASE	Yes	5.5	5	5.5		40.9

Remarks:

Test/ Specimen specific remarks:

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 593.3

4041

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	07/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	13/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

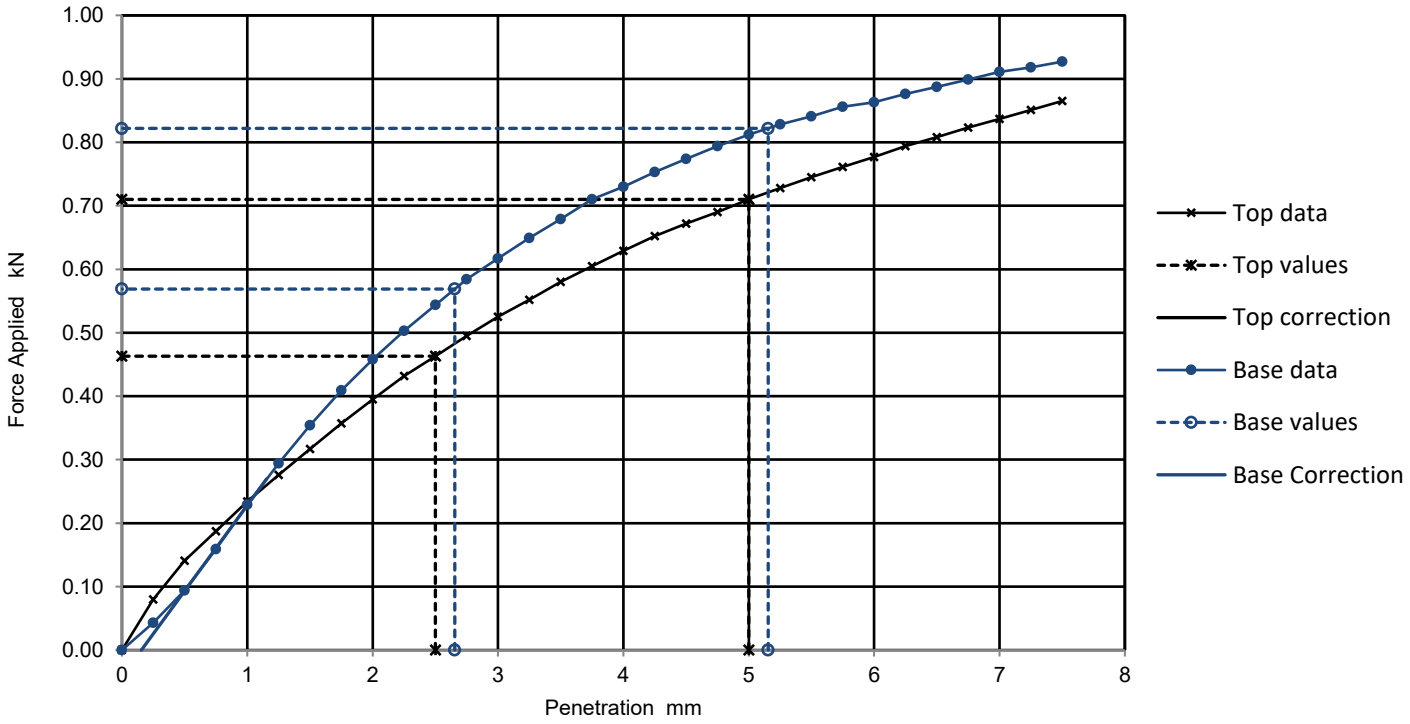
Test Results:

Laboratory Reference:	720669	Depth Top [m]:	0.40
Hole No.:	CBR11 (OCT 25)	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Yellowish brown gravelly silty CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	days
				Time to surface	days
				Amount of swell recorded	mm
Material retained on 20mm sieve removed		14	%	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density	1.74	Mg/m3	Surcharge applied	8 kg
	Dry density	1.23	Mg/m3		4.8 kPa
	Water content	41.2	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	No	3.5	3.6	3.6	3.9	41.1
BASE	Yes	4.3	4.1	4.3		42.1

Remarks:

Test/ Specimen specific remarks:

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TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	13/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

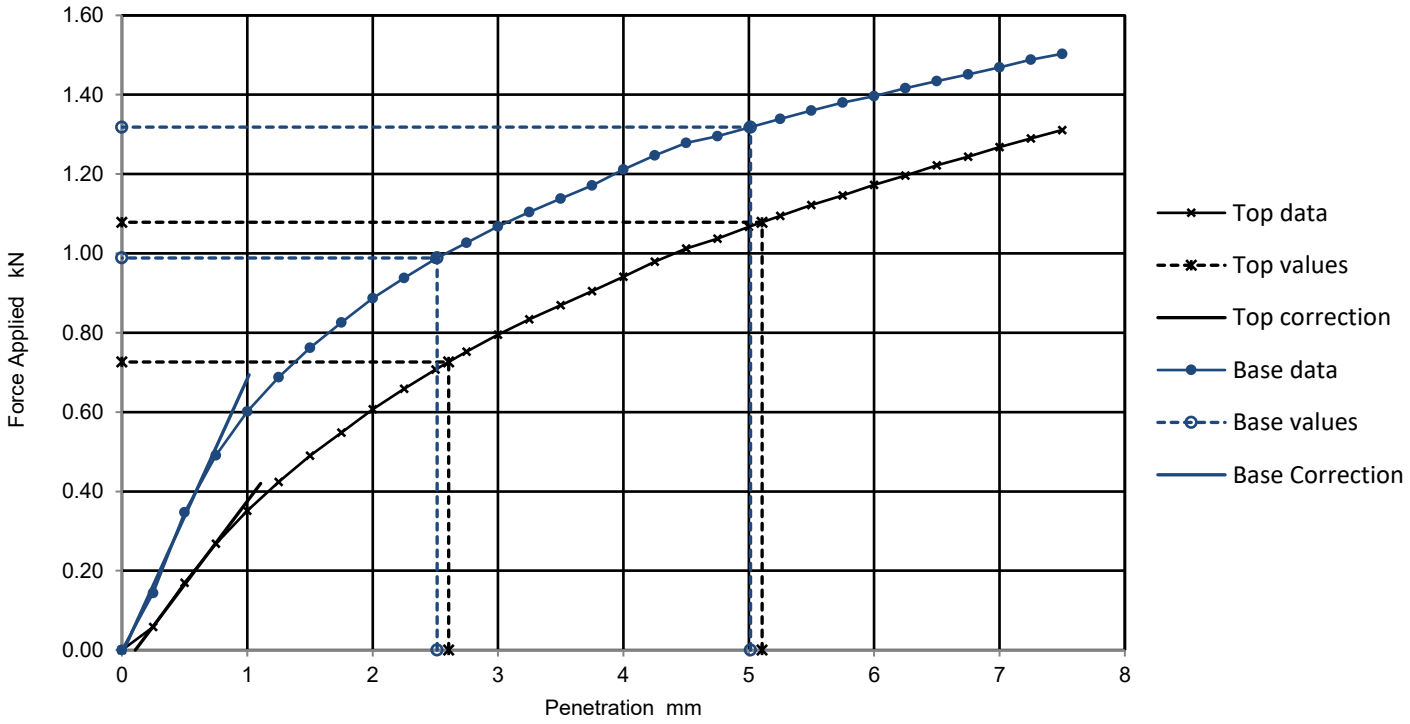
Laboratory Reference:	720670	Depth Top [m]:	0.50
Hole No.:	CBR12	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Yellowish brown CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	1.73	Mg/m3	Surcharge applied	8 kg
	Dry density	1.24	Mg/m3		4.9 kPa
	Water content	39.8	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	5.5	5.4	5.5		41
BASE	Yes	7.5	6.6	7.5		40

Remarks:

Test/ Specimen specific remarks:

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TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	01/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	13/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

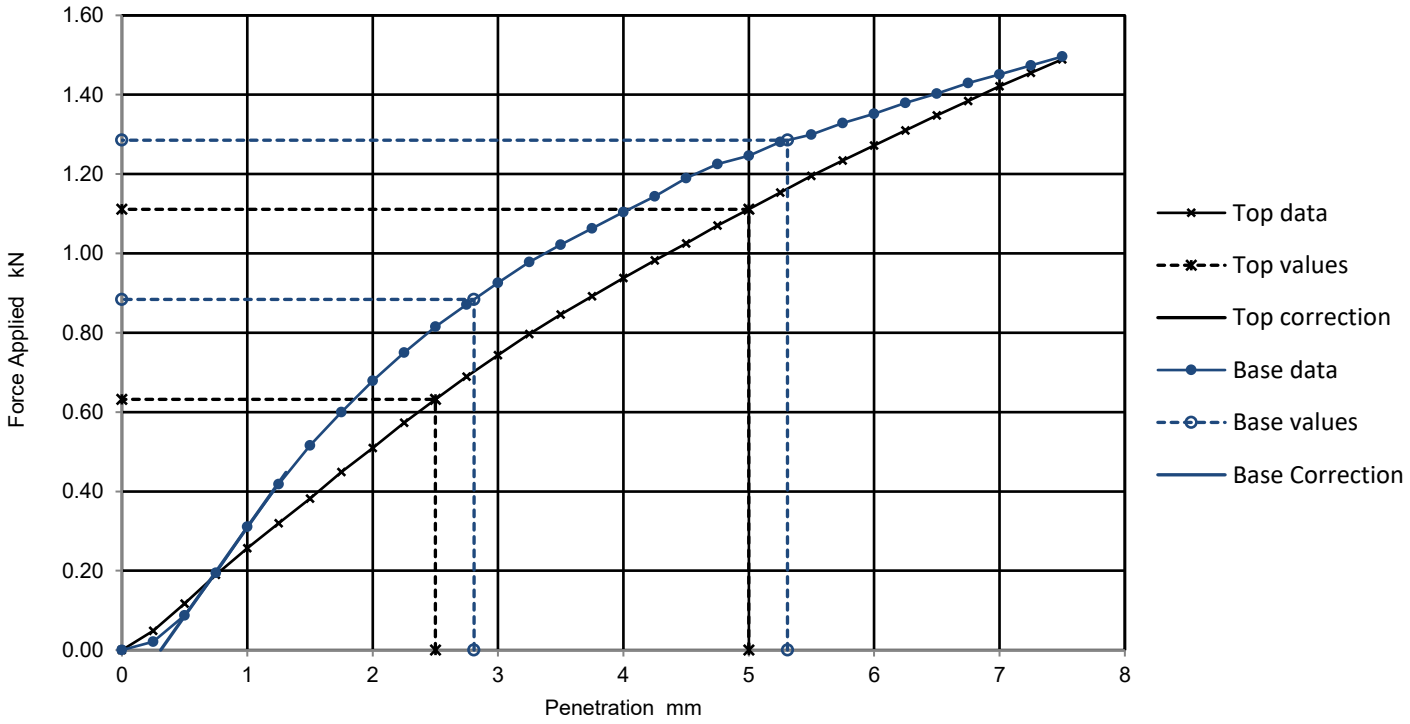
Laboratory Reference:	720671	Depth Top [m]:	0.30
Hole No.:	CBR13	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Yellowish brown CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	1.70	Mg/m3	Surcharge applied	8 kg
	Dry density	1.23	Mg/m3		4.9 kPa
	Water content	37.9	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	No	4.8	5.6	5.6	6.1	38.6
BASE	Yes	6.7	6.4	6.7		38.3

Remarks:

Test/ Specimen specific remarks:

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TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	13/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

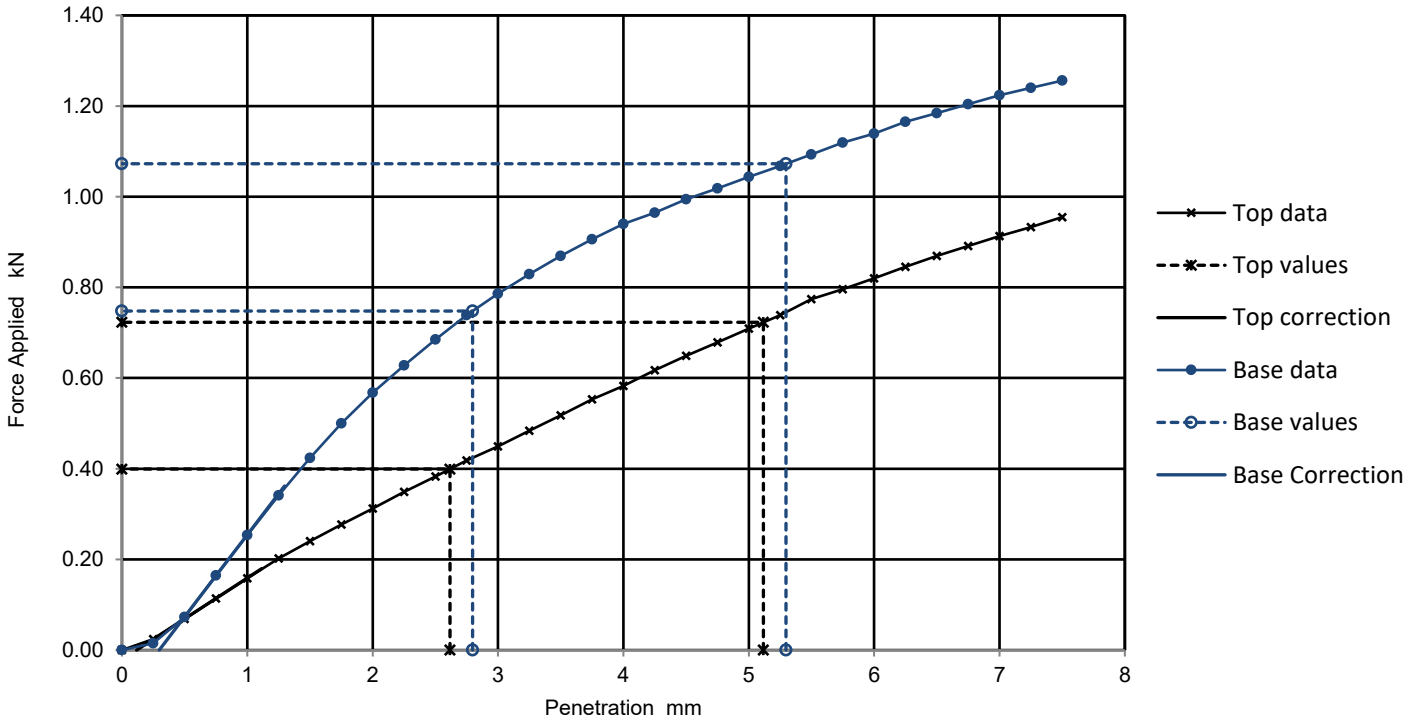
Laboratory Reference:	720672	Depth Top [m]:	0.40
Hole No.:	CBR14	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown silty CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	1.67	Mg/m3	Surcharge applied	8 kg
	Dry density	1.17	Mg/m3		4.8 kPa
	Water content	43.3	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	3	3.6	3.6		44
BASE	Yes	5.7	5.4	5.7		42.9

Remarks:

Test/ Specimen specific remarks:

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Date Reported: 12/12/2025

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TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	13/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

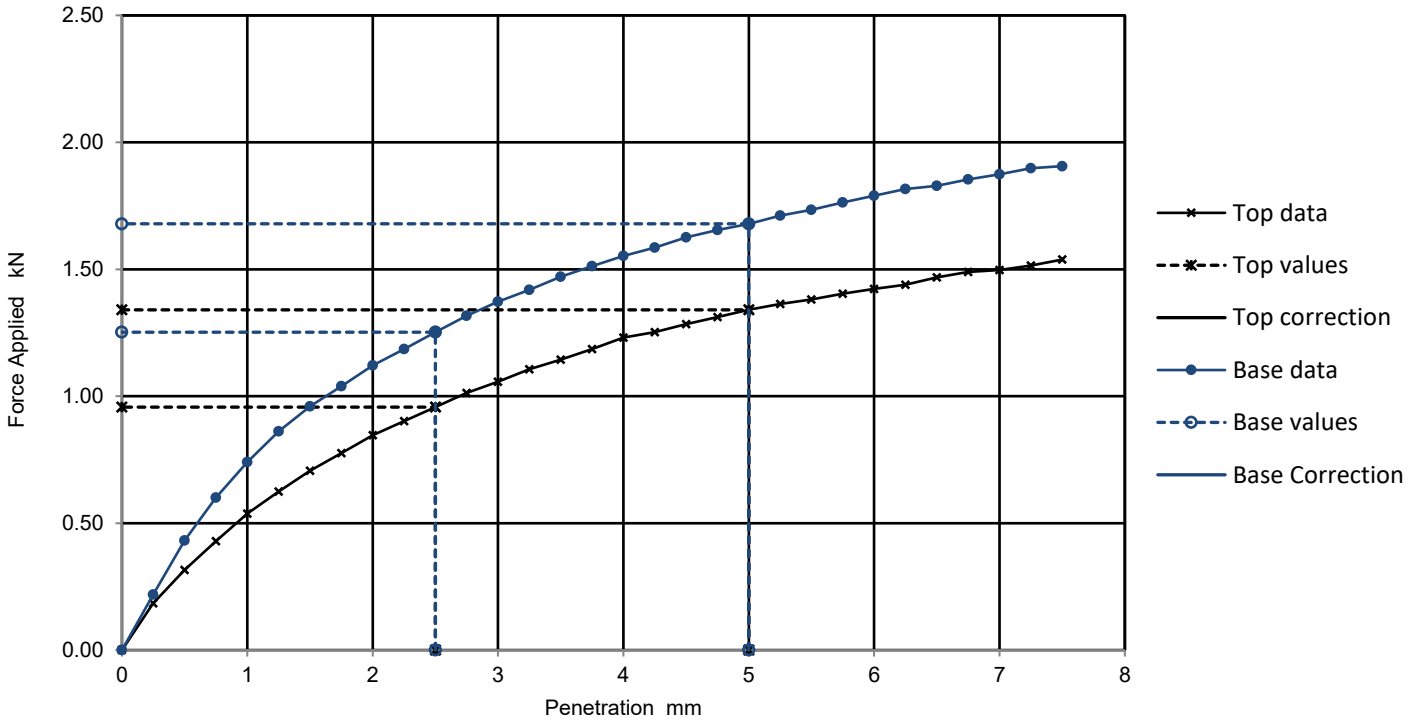
Laboratory Reference:	720673	Depth Top [m]:	0.30
Hole No.:	CBR15	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	1.91	Mg/m3	Surcharge applied	8 kg
	Dry density	1.56	Mg/m3		4.8 kPa
	Water content	22.3	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	No	7.3	6.7	7.3		22
BASE	No	9.5	8.4	9.5		21.8

Remarks:

Test/ Specimen specific remarks:

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Date Reported: 12/12/2025

GF 593.3

4041

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	13/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

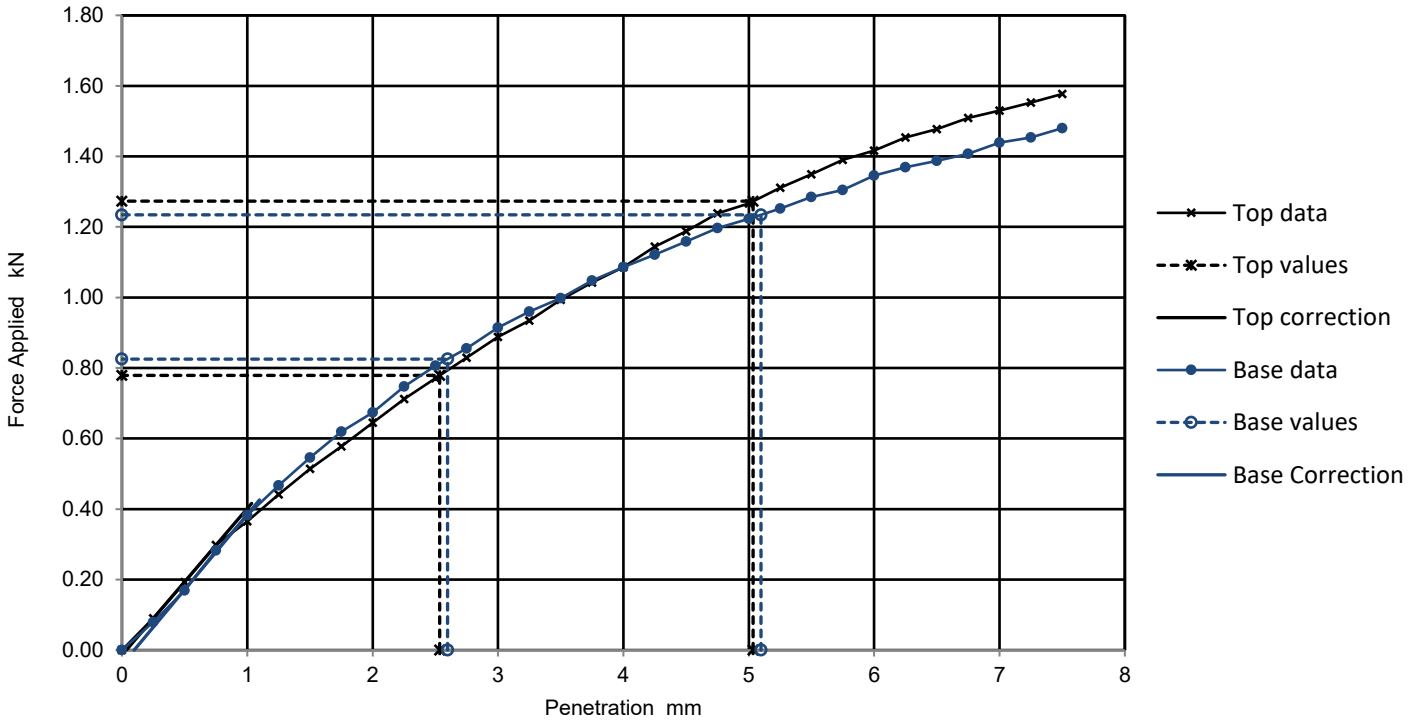
Laboratory Reference:	720674	Depth Top [m]:	0.40
Hole No.:	CBR16	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	1.94	Mg/m3	Surcharge applied	8 kg
	Dry density	1.59	Mg/m3		4.8 kPa
	Water content	21.7	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	5.9	6.4	6.4	6.3	21.3
BASE	Yes	6.3	6.2	6.3		21.3

Remarks:

Test/ Specimen specific remarks:

Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

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Date Reported: 12/12/2025

GF 593.3

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	12/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

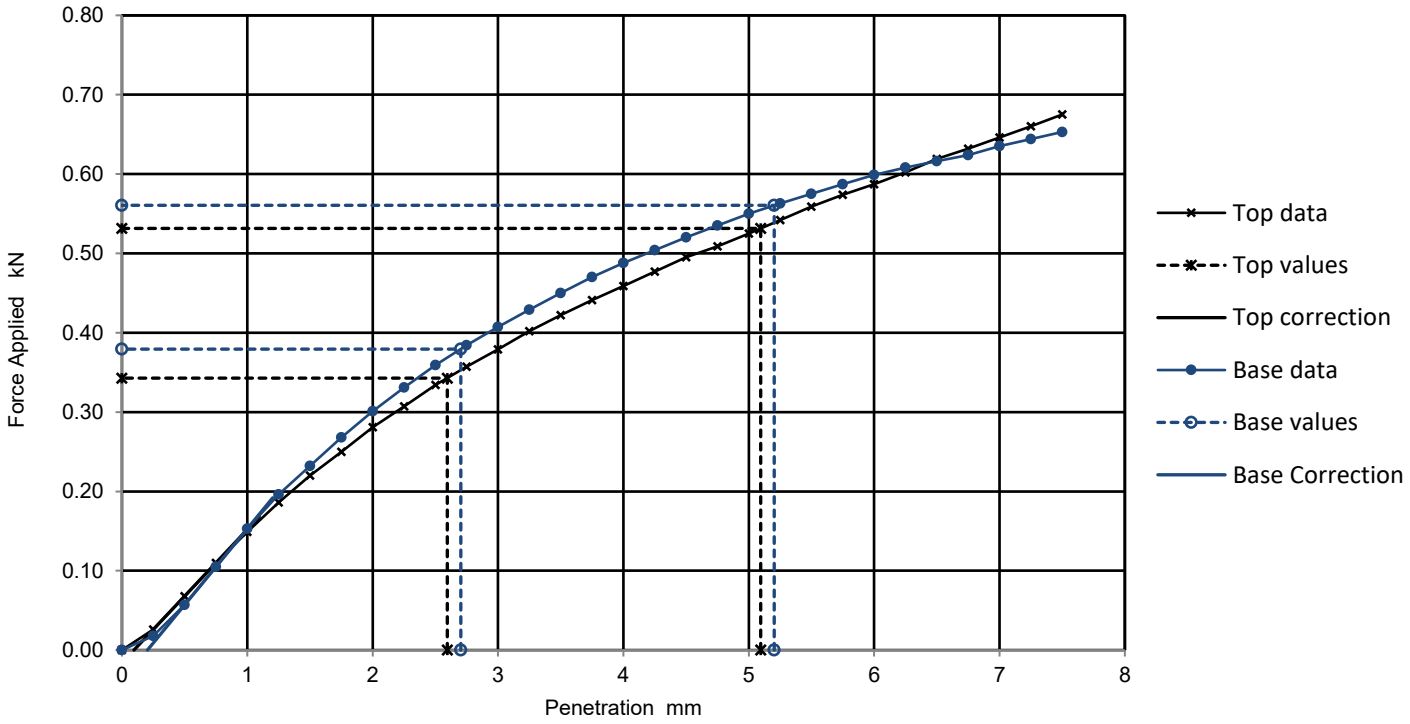
Laboratory Reference:	720675	Depth Top [m]:	0.40
Hole No.:	CBR2	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	1.67	Mg/m3	Surcharge applied	8 kg
	Dry density	1.13	Mg/m3		4.8 kPa
	Water content	47.9	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	2.6	2.7	2.7	2.8	47.8
BASE	Yes	2.9	2.8	2.9		47.6

Remarks:

Test/ Specimen specific remarks:

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Date Reported: 12/12/2025

GF 593.3

4041

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	13/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

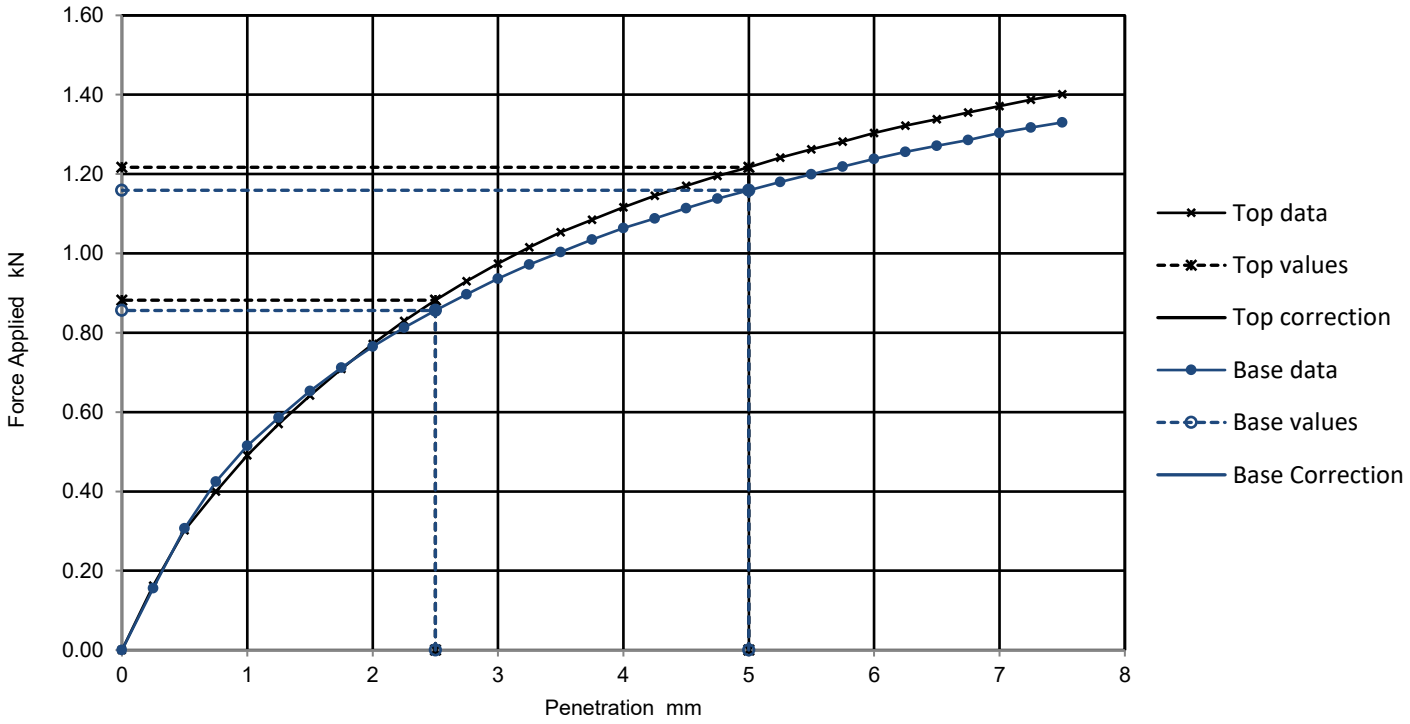
Laboratory Reference:	720676	Depth Top [m]:	0.40
Hole No.:	CBR4	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	1.72	Mg/m3	Surcharge applied	8 kg
	Dry density	1.23	Mg/m3		4.8 kPa
	Water content	39.3	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	No	6.7	6.1	6.7	6.6	40.1
BASE	No	6.5	5.8	6.5		40.8

Remarks:

Test/ Specimen specific remarks:

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Date Reported: 12/12/2025

GF 593.3

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	13/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

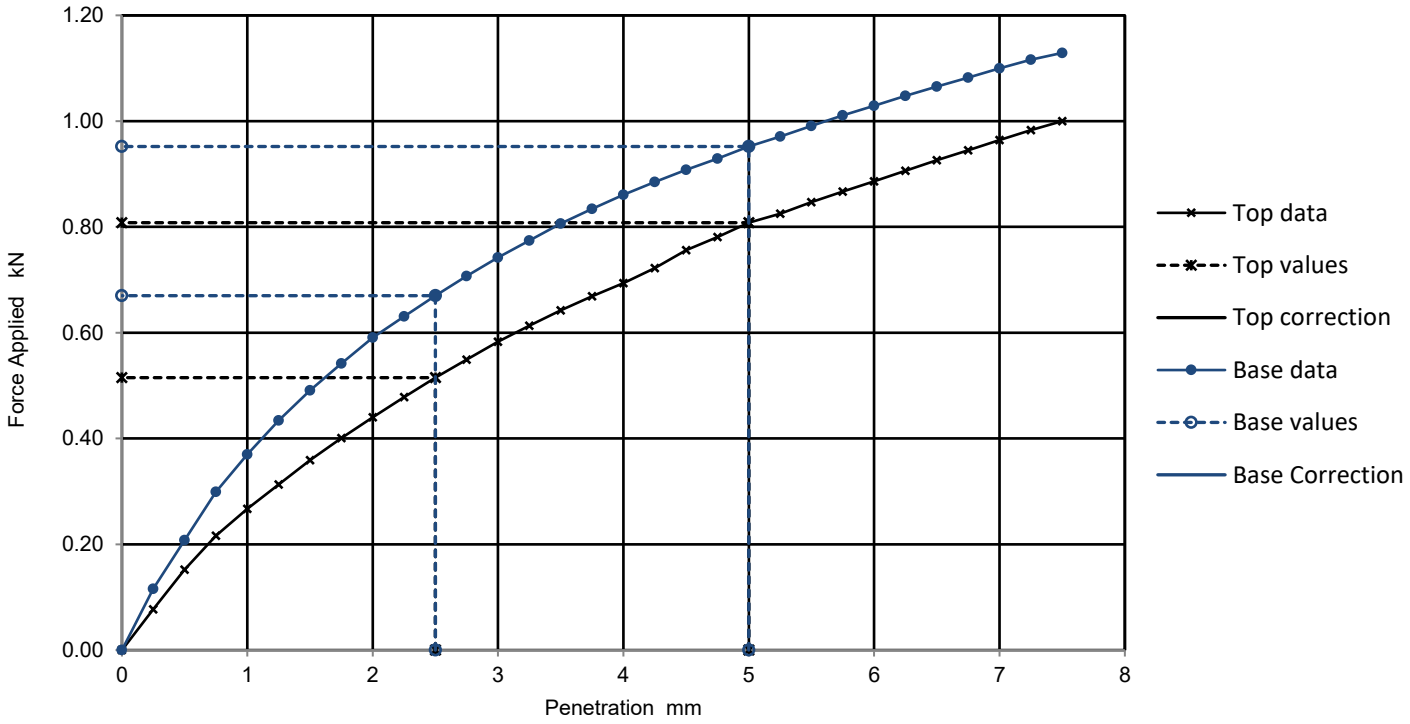
Laboratory Reference:	720677	Depth Top [m]:	0.30
Hole No.:	CBR6	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	3 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	1.95	Mg/m3	Surcharge applied	8 kg
	Dry density	1.56	Mg/m3		4.9 kPa
	Water content	25.1	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	No	3.9	4	4		24.7
BASE	No	5.1	4.8	5.1		24.6

Remarks:

Test/ Specimen specific remarks:

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Date Reported: 12/12/2025

GF 593.3

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	13/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

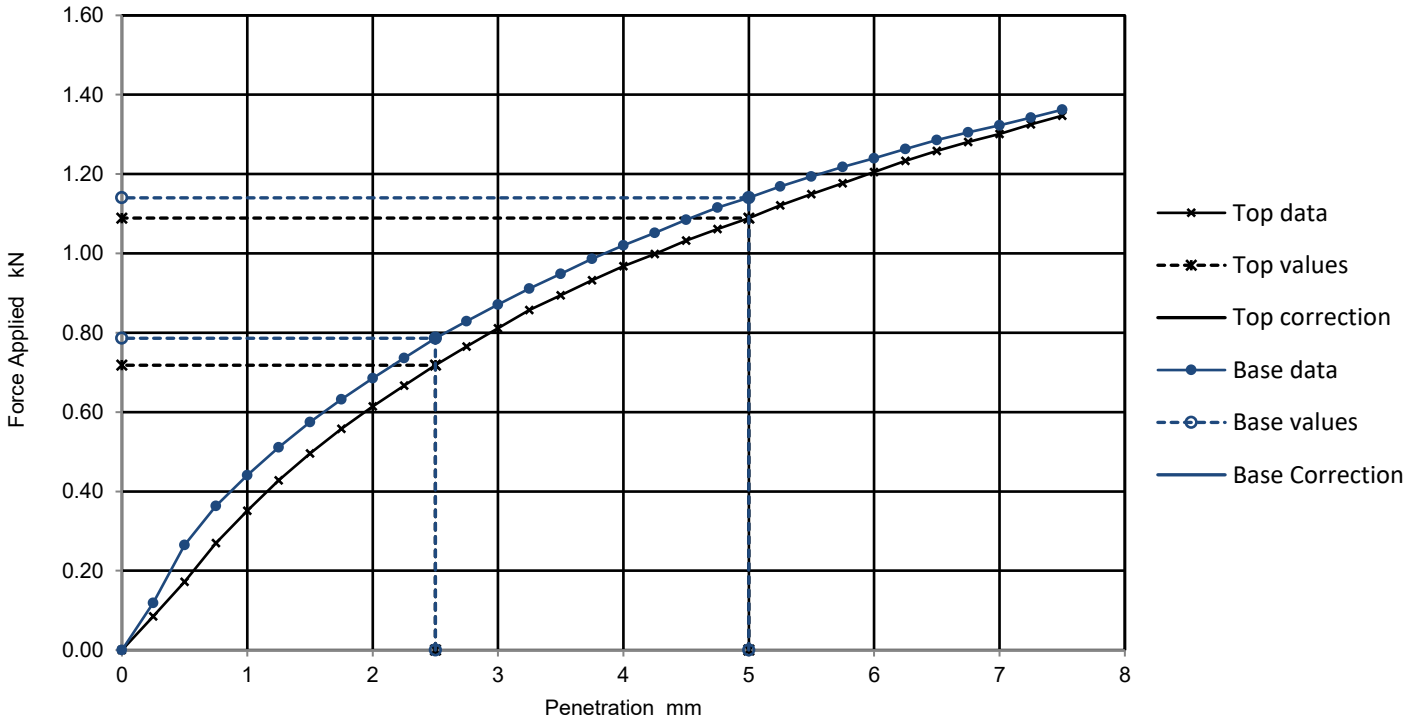
Test Results:

Laboratory Reference:	720678	Depth Top [m]:	0.30
Hole No.:	CBR7	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	days
				Time to surface	days
				Amount of swell recorded	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density	1.98	Mg/m3	Surcharge applied	8 kg
	Dry density	1.63	Mg/m3		4.8 kPa
	Water content	21.3	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	No	5.4	5.4	5.4	5.7	21.4
BASE	No	6	5.7	6		20.9

Remarks:

Test/ Specimen specific remarks:

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for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 593.3

i2 Analytical Ltd, Unit 8, Harrowden Road, Brackmills Industrial Estate, Northampton, NN4 7EB

4041

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-2:2022 Cl. 15

Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	12/11/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

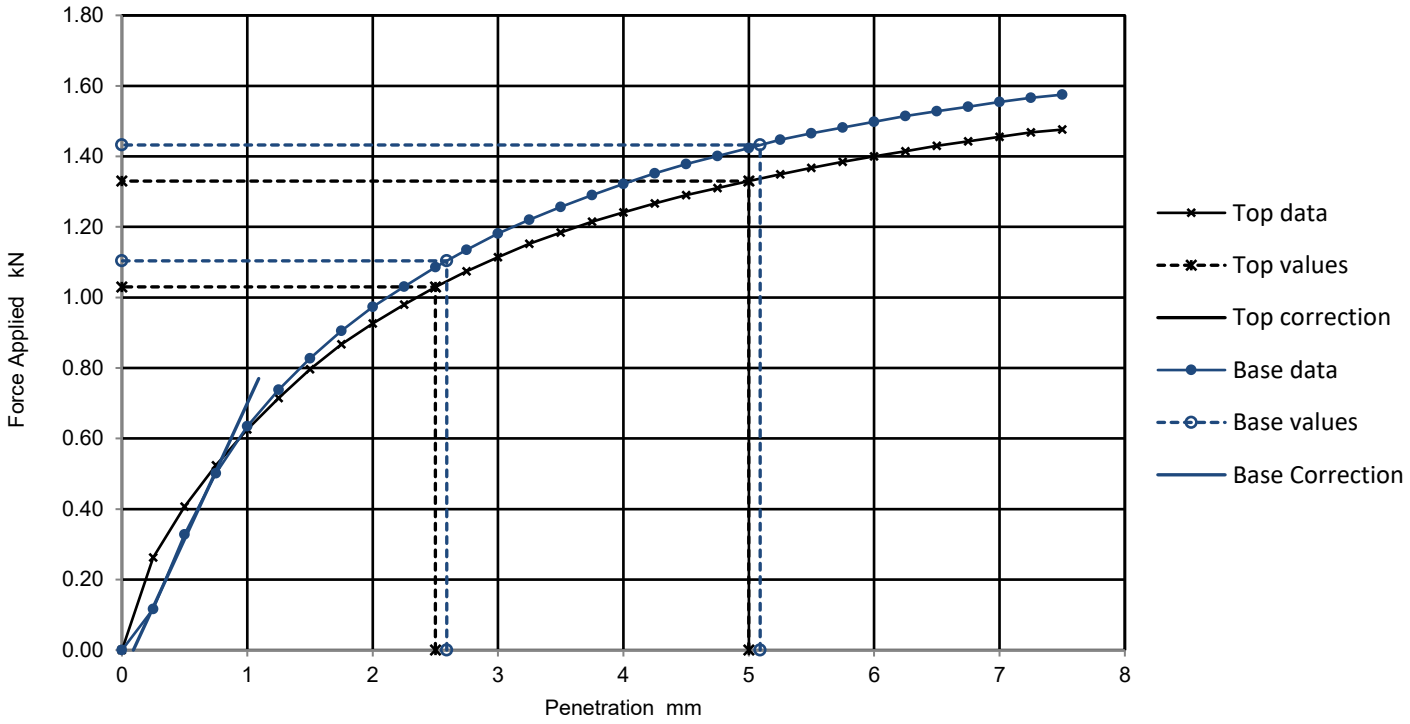
Test Results:

Laboratory Reference:	720679	Depth Top [m]:	0.40
Hole No.:	CBR8	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	days
				Time to surface	days
				Amount of swell recorded	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density	1.72	Mg/m3	Surcharge applied	8 kg
	Dry density	1.22	Mg/m3		4.8 kPa
	Water content	41.0	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	No	7.8	6.7	7.8	8.1	39.6
BASE	Yes	8.4	7.2	8.4		40.5

Remarks:

Test/ Specimen specific remarks:

Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

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Date Reported: 12/12/2025

GF 593.3

4041

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-2:2022 Cl 15.3

Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

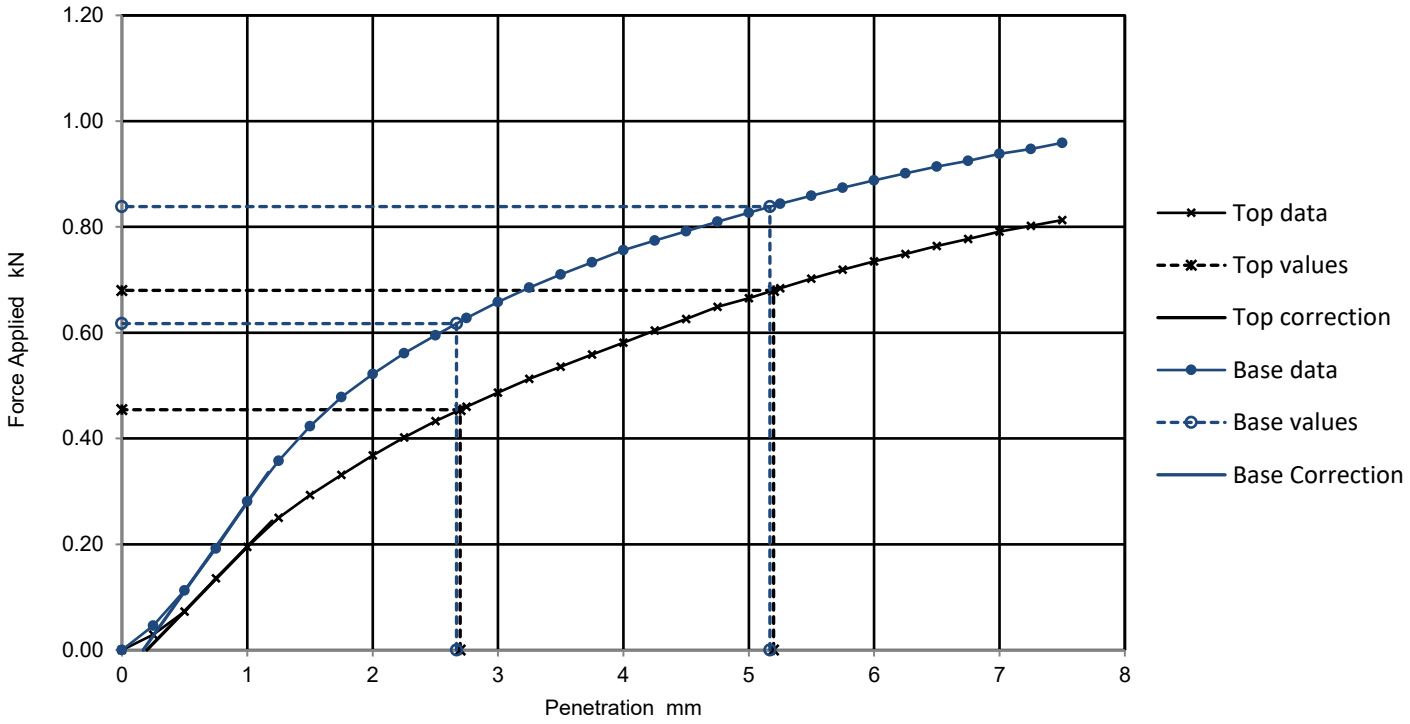
Test Results:

Laboratory Reference:	720632	Depth Top [m]:	0.40
Hole No.:	MTP106 / CBR5	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	4	days
				Time to surface	3	days
				Amount of swell recorded	0.10	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	1.00	Mg/m3
Initial Specimen details	Bulk density	1.45	Mg/m3	Surcharge applied	8	kg
	Dry density	1.00	Mg/m3		4.9	kPa
	Water content	44.6	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, % 2.5mm	5mm	Highest	Average	Water Content %
TOP	Yes	3.4	3.4	3.4		46.9
BASE	Yes	4.7	4.2	4.7		45.8

Remarks:

Test/ Specimen specific remarks:

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Date Reported: 12/12/2025

GF 597.3

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TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-2:2022 Cl 15.3

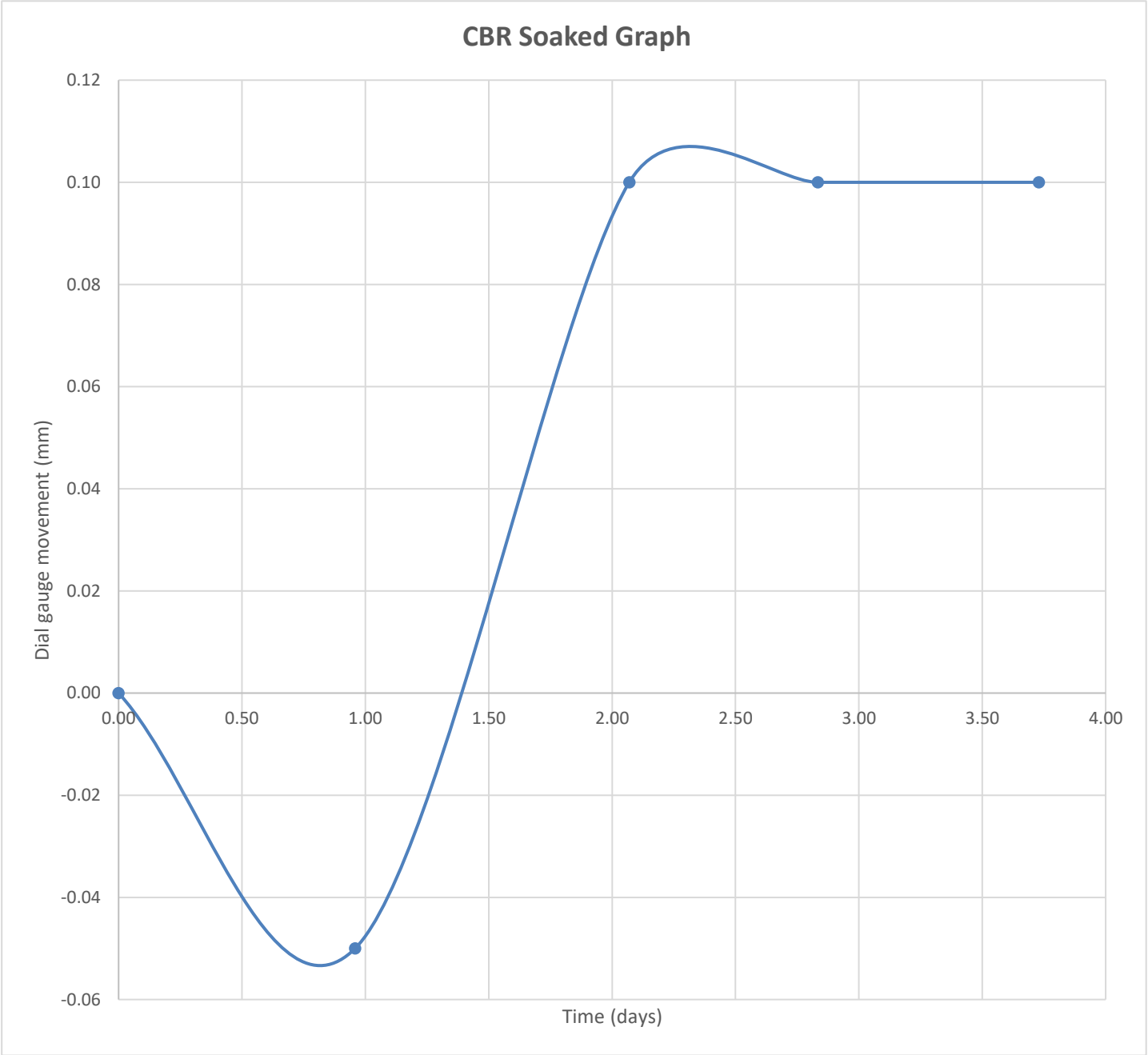
Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720632	Depth Top [m]:	0.40
Hole No.:	MTP106 / CBR5	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		



Remarks:

Test/ Specimen specific remarks:

Signed:

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TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-2:2022 Cl 15.3

Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

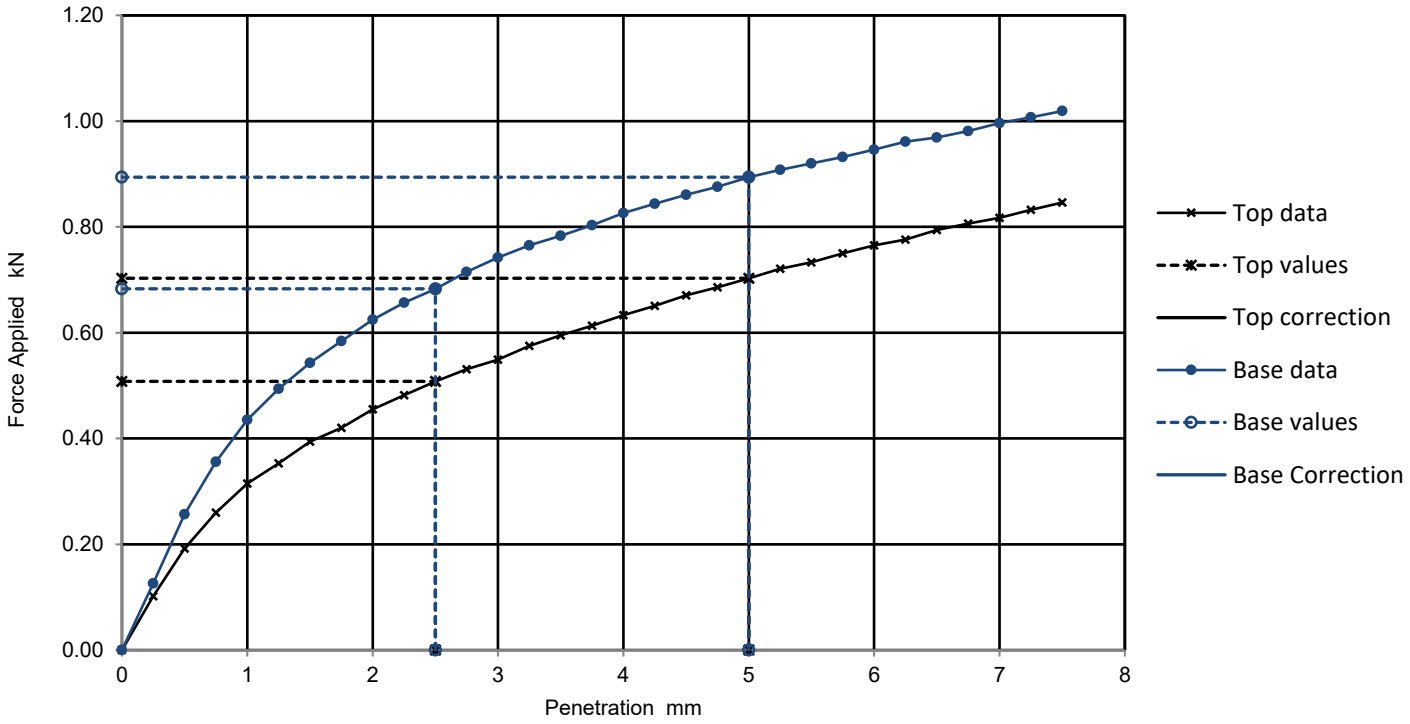
Test Results:

Laboratory Reference:	720633	Depth Top [m]:	0.40
Hole No.:	MTP106 / CBR03	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	4	days
				Time to surface	3	days
				Amount of swell recorded	0.59	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	1.20	Mg/m3
Initial Specimen details	Bulk density	1.73	Mg/m3	Surcharge applied	8	kg
	Dry density	1.20	Mg/m3		4.9	kPa
	Water content	43.7	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, % 2.5mm	5mm	Highest	Average	Water Content %
TOP	No	3.8	3.5	3.8		44.1
BASE	No	5.2	4.5	5.2		43.2

Remarks:

Test/ Specimen specific remarks:

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Date Reported: 12/12/2025

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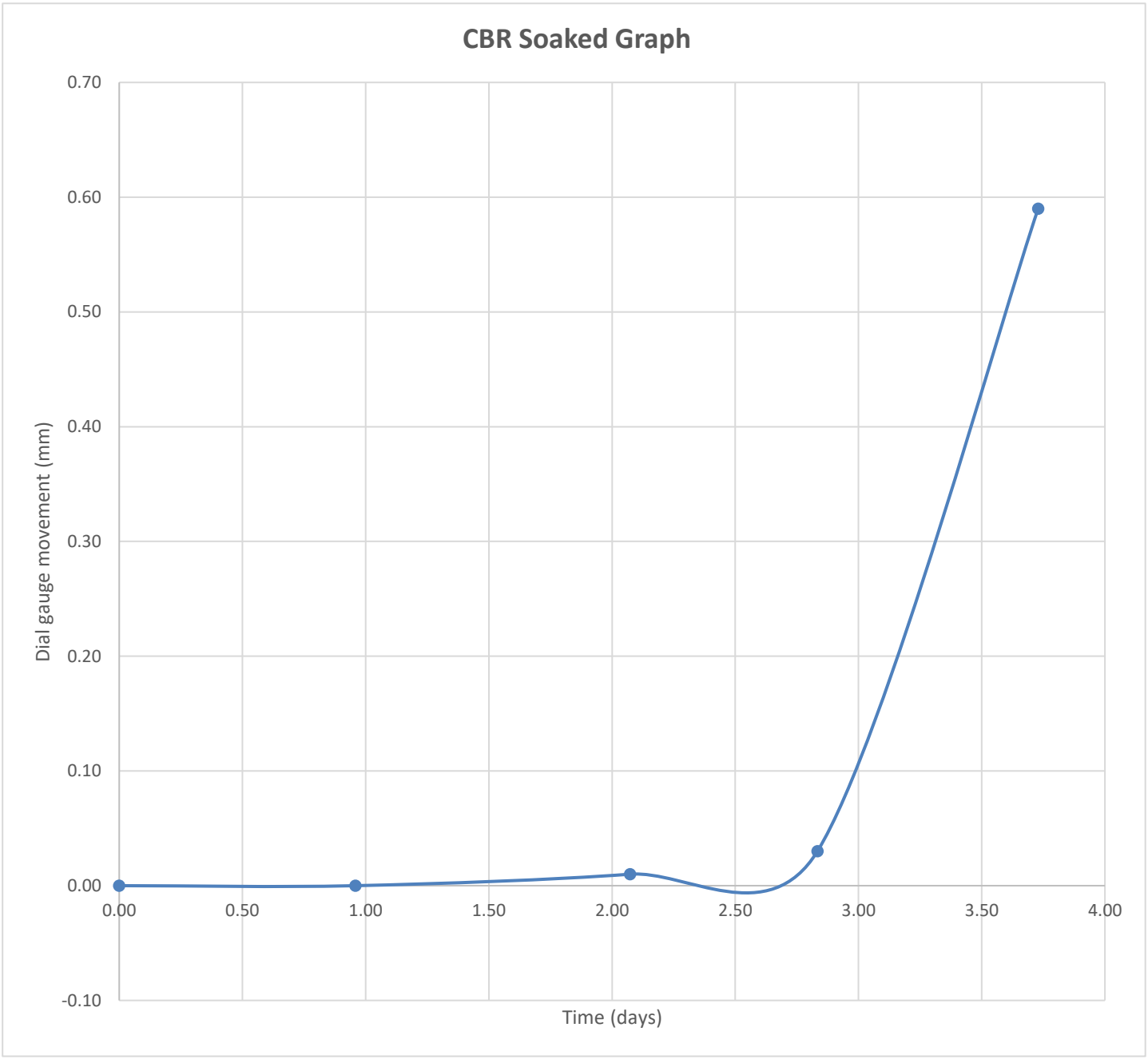
4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720633	Depth Top [m]:	0.40
Hole No.:	MTP106 / CBR03	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		



Remarks:

Test/ Specimen specific remarks:

Signed:

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Date Reported: 12/12/2025

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Tested in Accordance with: BS 1377-2:2022 Cl 15.3

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	19/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

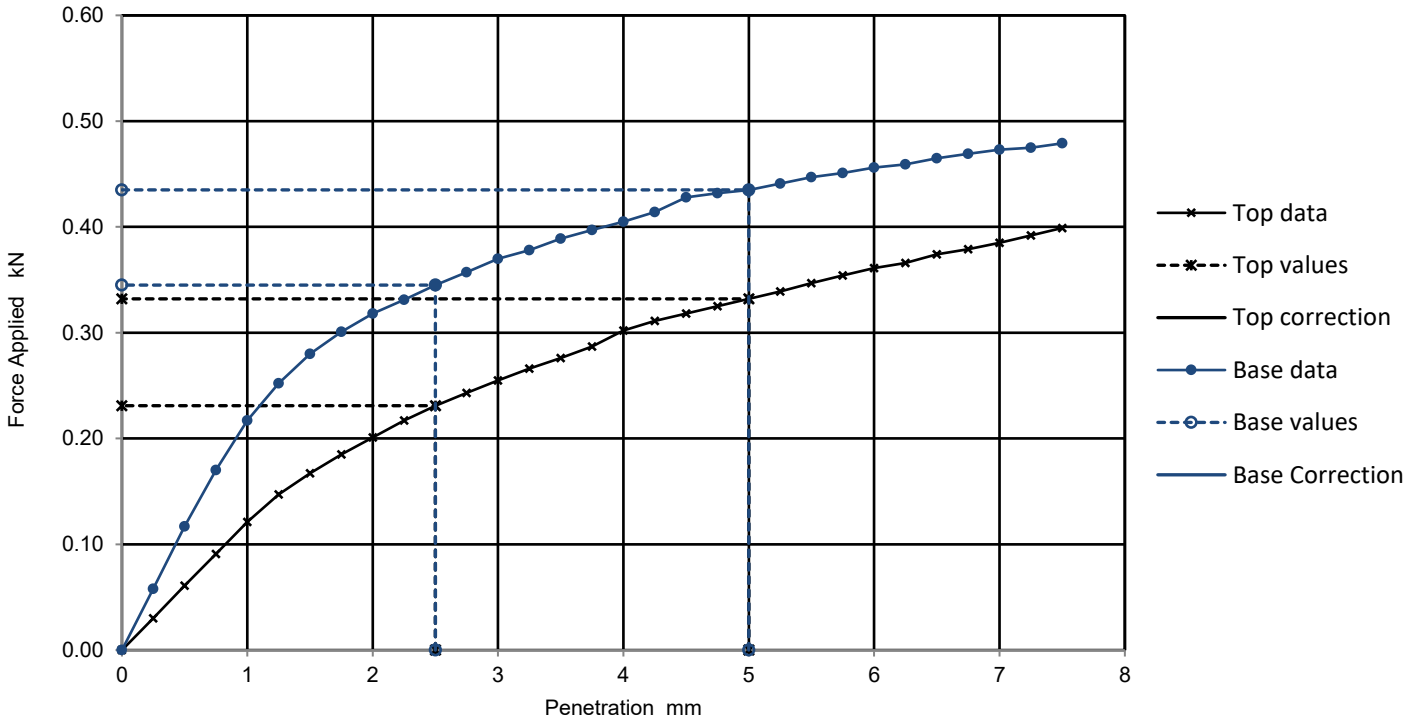
Test Results:

Laboratory Reference:	720636	Depth Top [m]:	0.50
Hole No.:	MTP108 / CBR1	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	4	days
				Time to surface	3	days
				Amount of swell recorded	-0.14	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	1.07	Mg/m3
Initial Specimen details	Bulk density	1.64	Mg/m3	Surcharge applied	8	kg
	Dry density	1.07	Mg/m3		4.9	kPa
	Water content	53.3	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, % 2.5mm	5mm	Highest	Average	Water Content %
TOP	No	1.8	1.7	1.8		51.5
BASE	No	2.6	2.2	2.6		52.5

Remarks:

Test/ Specimen specific remarks:

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 Date Reported: 12/12/2025 **GF 597.3**

4041

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-2:2022 Cl 15.3

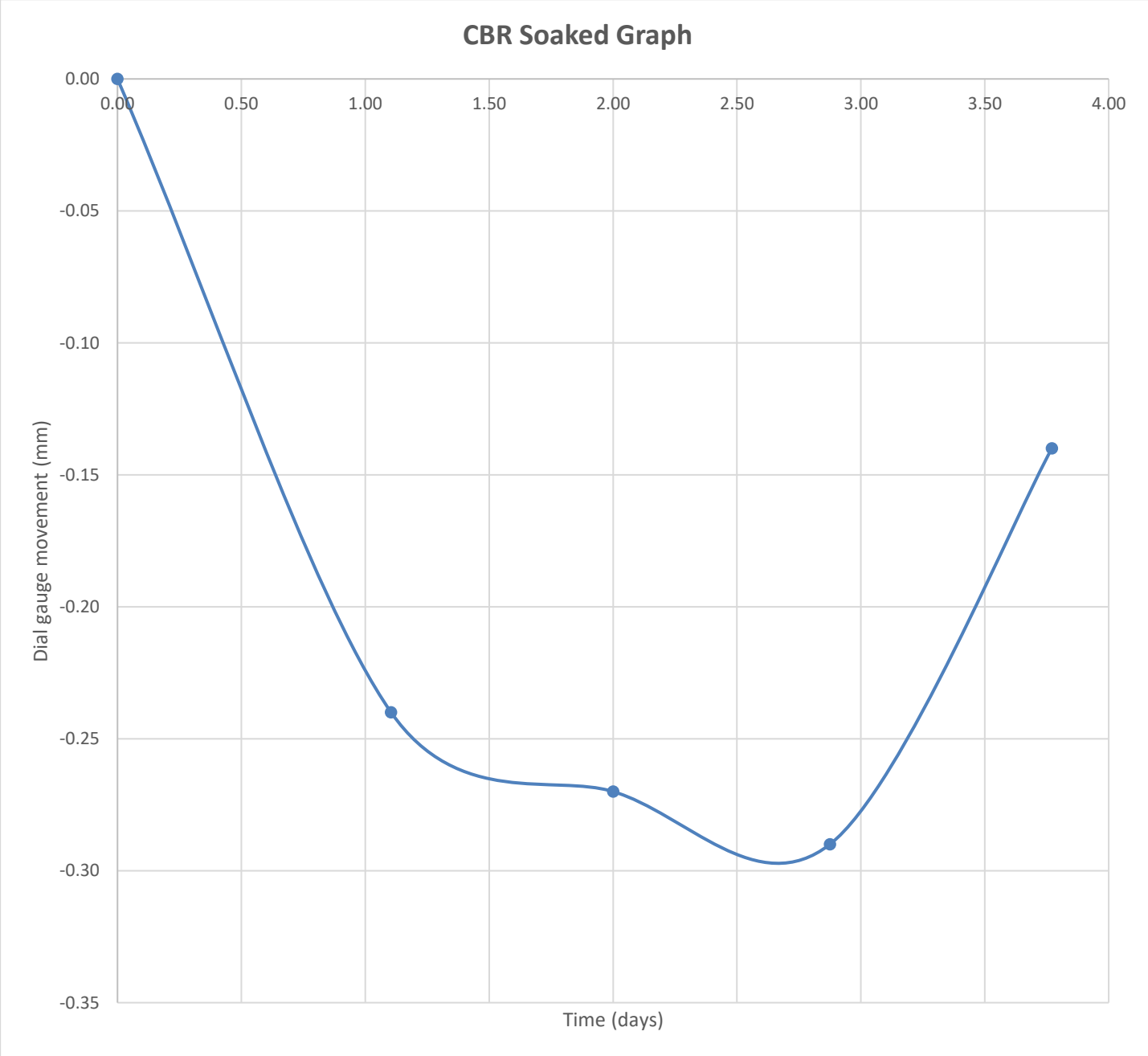
Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	19/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720636	Depth Top [m]:	0.50
Hole No.:	MTP108 / CBR1	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		



Remarks:

Test/ Specimen specific remarks:

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Date Reported: 12/12/2025

GF 597.3

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DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-2:2022 Cl 15.3

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

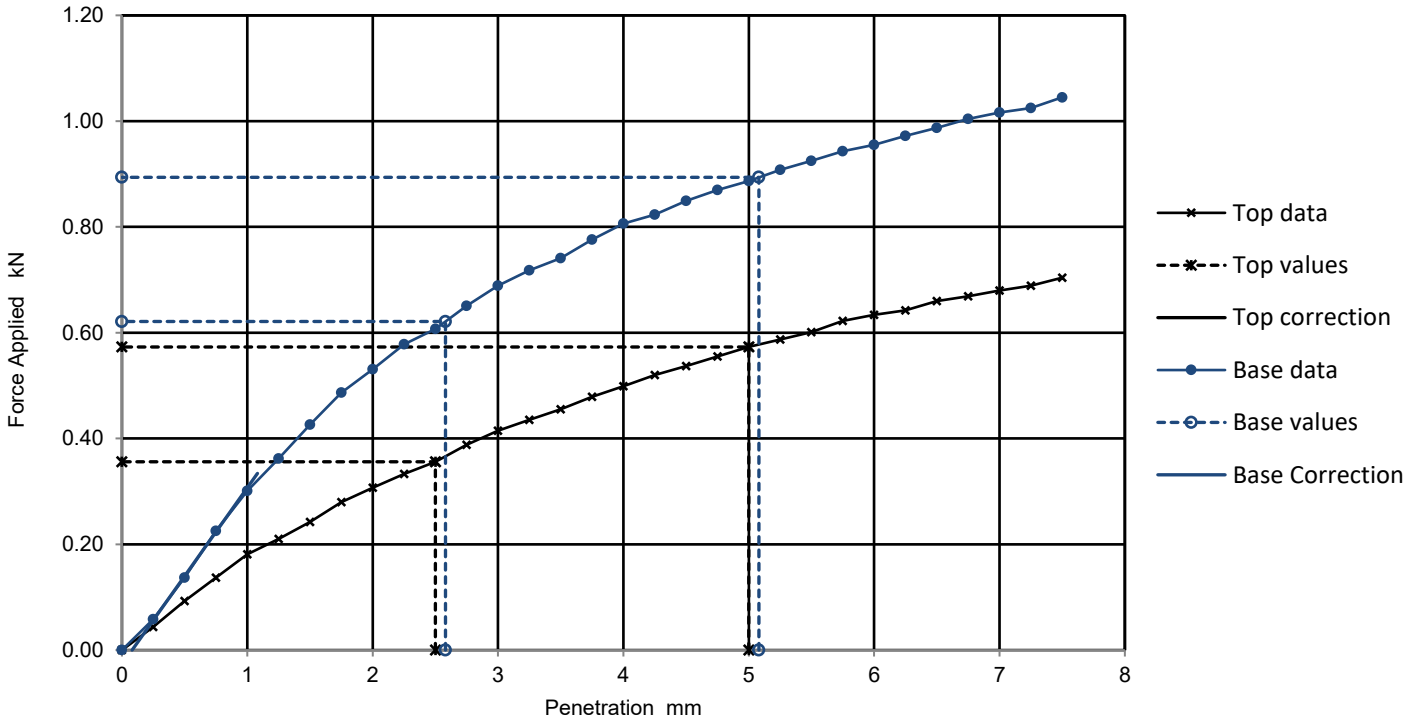
Test Results:

Laboratory Reference:	720668	Depth Top [m]:	0.40
Hole No.:	CBR10 (OCT 25)	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Yellowish brown CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	4	days
				Time to surface	3	days
				Amount of swell recorded	0.22	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	1.22	Mg/m3
Initial Specimen details	Bulk density	1.73	Mg/m3	Surcharge applied	8	kg
	Dry density	1.22	Mg/m3		4.9	kPa
	Water content	41.6	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	No	2.7	2.9	2.9		42.1
BASE	Yes	4.7	4.5	4.7		39.9

Remarks:

Test/ Specimen specific remarks:

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for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 597.3

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-2:2022 Cl 15.3

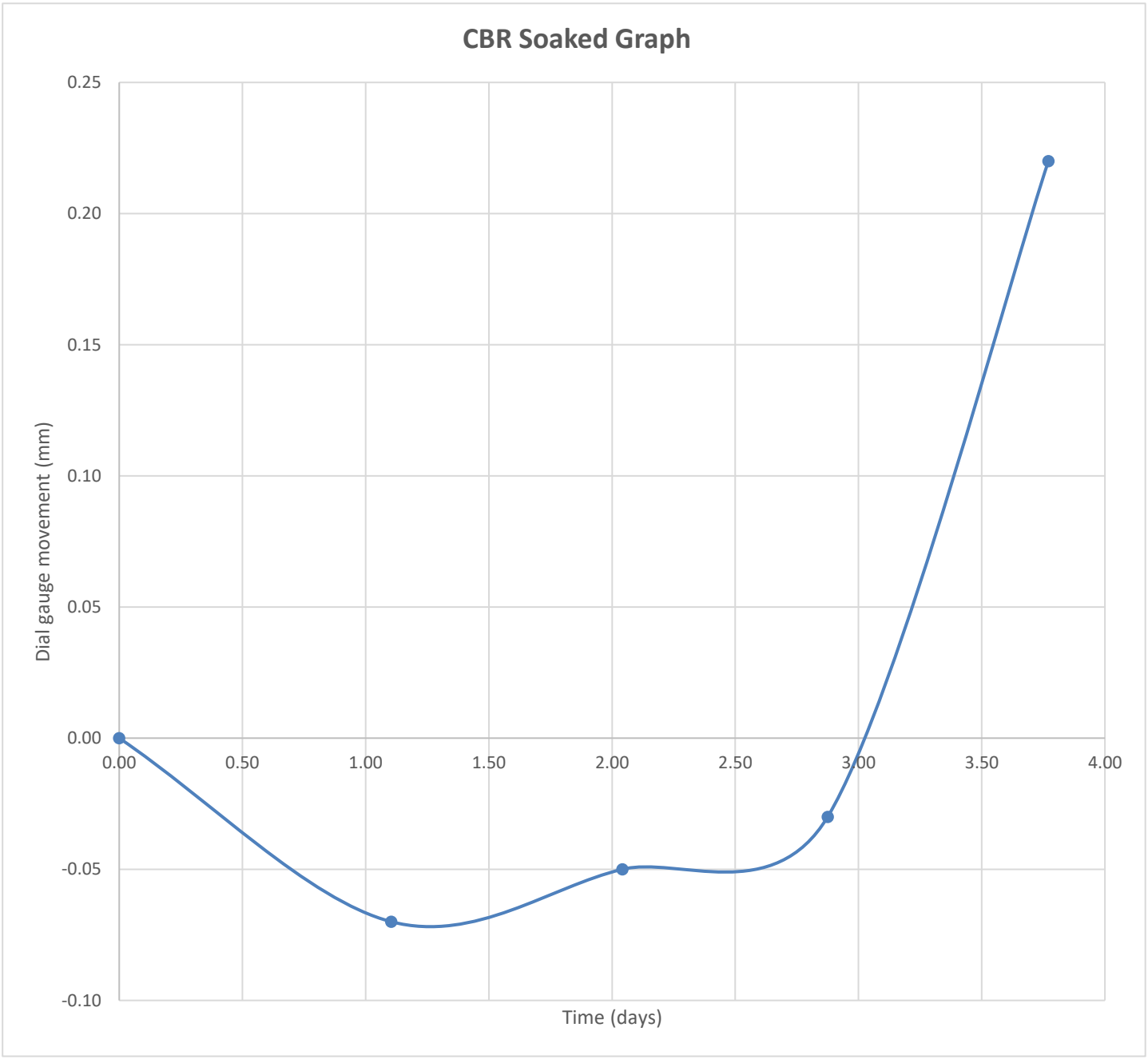
4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720668	Depth Top [m]:	0.40
Hole No.:	CBR10 (OCT 25)	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Yellowish brown CLAY		



Remarks:

Test/ Specimen specific remarks:

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Date Reported: 12/12/2025

GF 597.3

4041

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-2:2022 Cl 15.3

Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	07/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

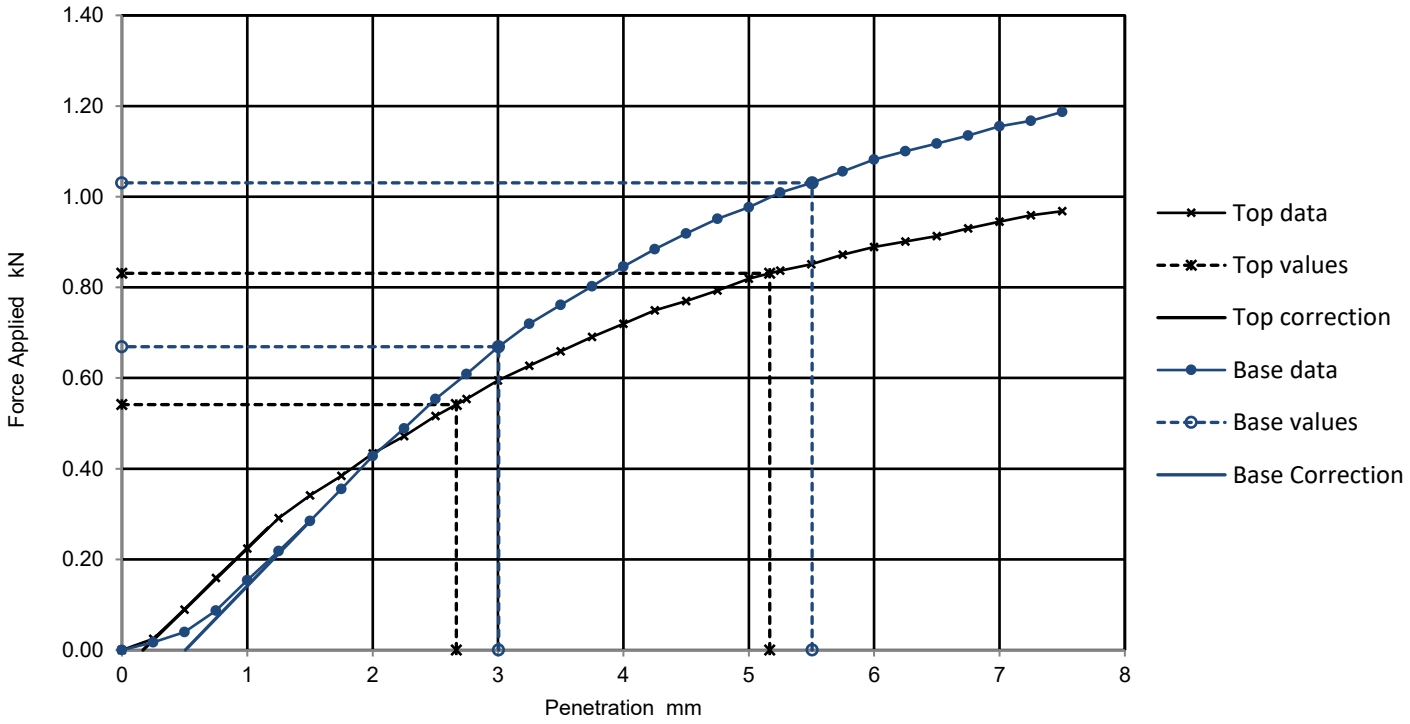
Test Results:

Laboratory Reference:	720669	Depth Top [m]:	0.40
Hole No.:	CBR11 (OCT 25)	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Yellowish brown gravelly silty CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	4	days
				Time to surface	3	days
				Amount of swell recorded	0.10	mm
Material retained on 20mm sieve removed		14	%	Dry density after soaking	1.24	Mg/m3
Initial Specimen details	Bulk density	1.75	Mg/m3	Surcharge applied	8	kg
	Dry density	1.24	Mg/m3		4.9	kPa
	Water content	41.2	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, % 2.5mm	5mm	Highest	Average	Water Content %
TOP	Yes	4.1	4.2	4.2		43.7
BASE	Yes	5.1	5.2	5.2		43.5

Remarks:

Test/ Specimen specific remarks:

Signed:

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Date Reported: 12/12/2025

GF 597.3

4041

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-2:2022 Cl 15.3

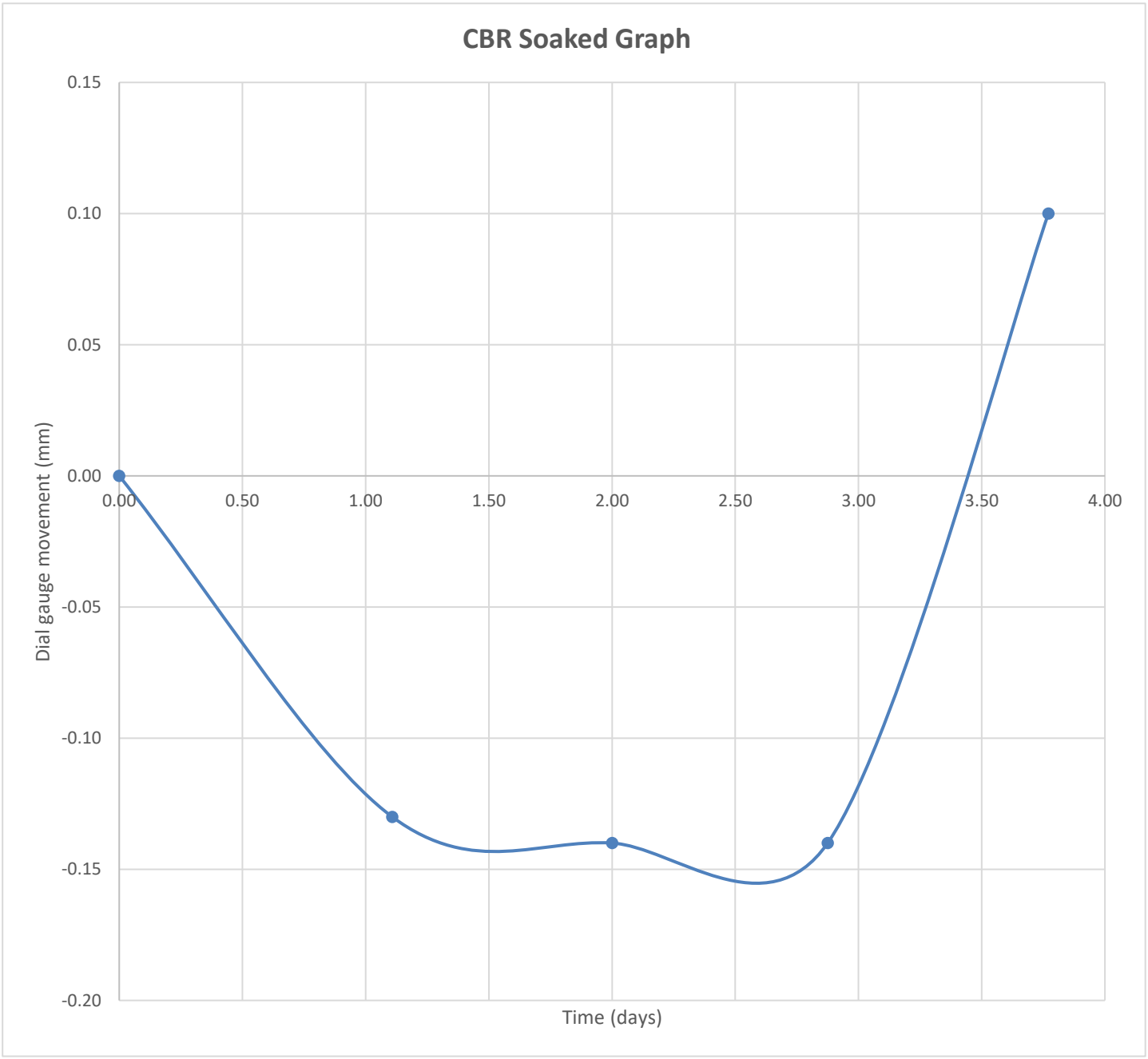
Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	07/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720669	Depth Top [m]:	0.40
Hole No.:	CBR11 (OCT 25)	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Yellowish brown gravelly silty CLAY		



Remarks:

Test/ Specimen specific remarks:

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for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 597.3

4041

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-2:2022 Cl 15.3

Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

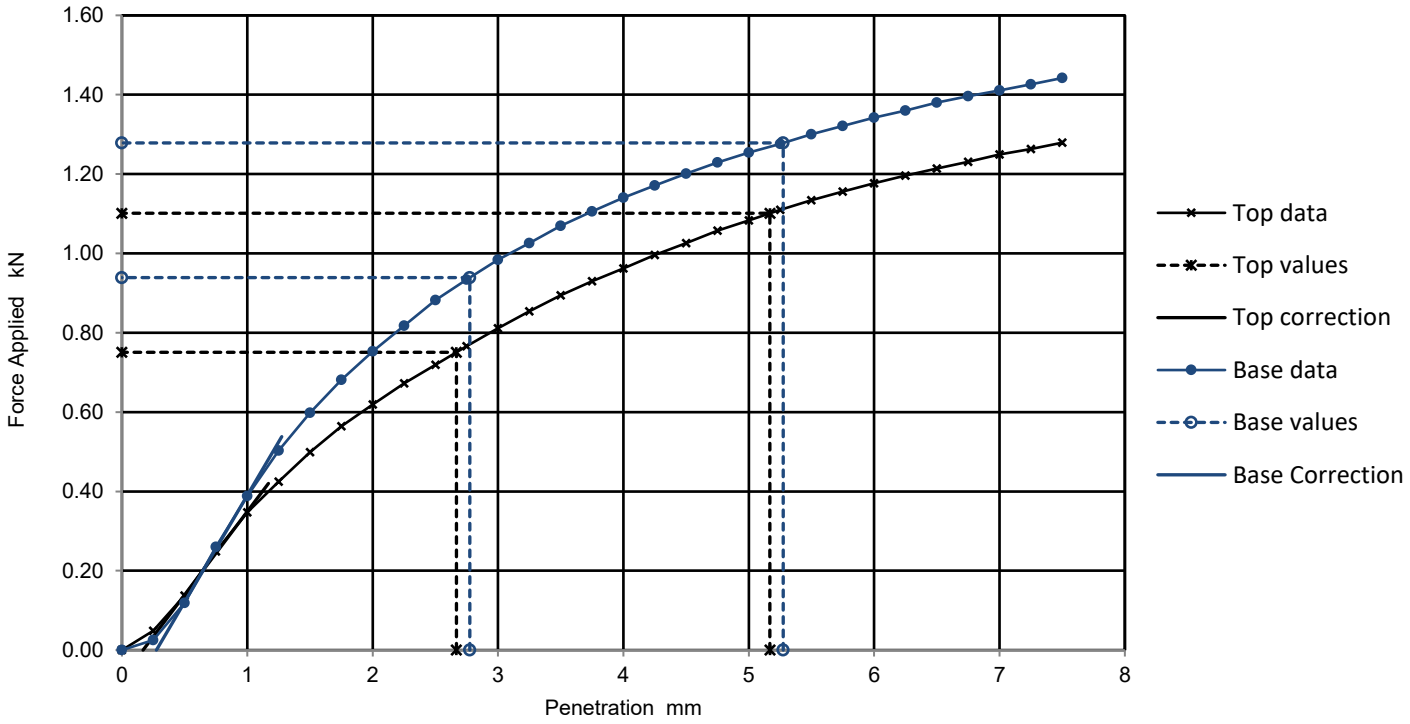
Test Results:

Laboratory Reference:	720670	Depth Top [m]:	0.50
Hole No.:	CBR12	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Yellowish brown CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	4	days
				Time to surface	3	days
				Amount of swell recorded	0.52	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	1.21	Mg/m3
Initial Specimen details	Bulk density	1.72	Mg/m3	Surcharge applied	8	kg
	Dry density	1.22	Mg/m3		4.9	kPa
	Water content	41.4	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, % 2.5mm	5mm	Highest	Average	Water Content %
TOP	Yes	5.7	5.5	5.7		40.1
BASE	Yes	7.1	6.4	7.1		37.6

Remarks:

Test/ Specimen specific remarks:

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Signed: Monika Siewior

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

 Date Reported: 12/12/2025 **GF 597.3**

4041

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-2:2022 Cl 15.3

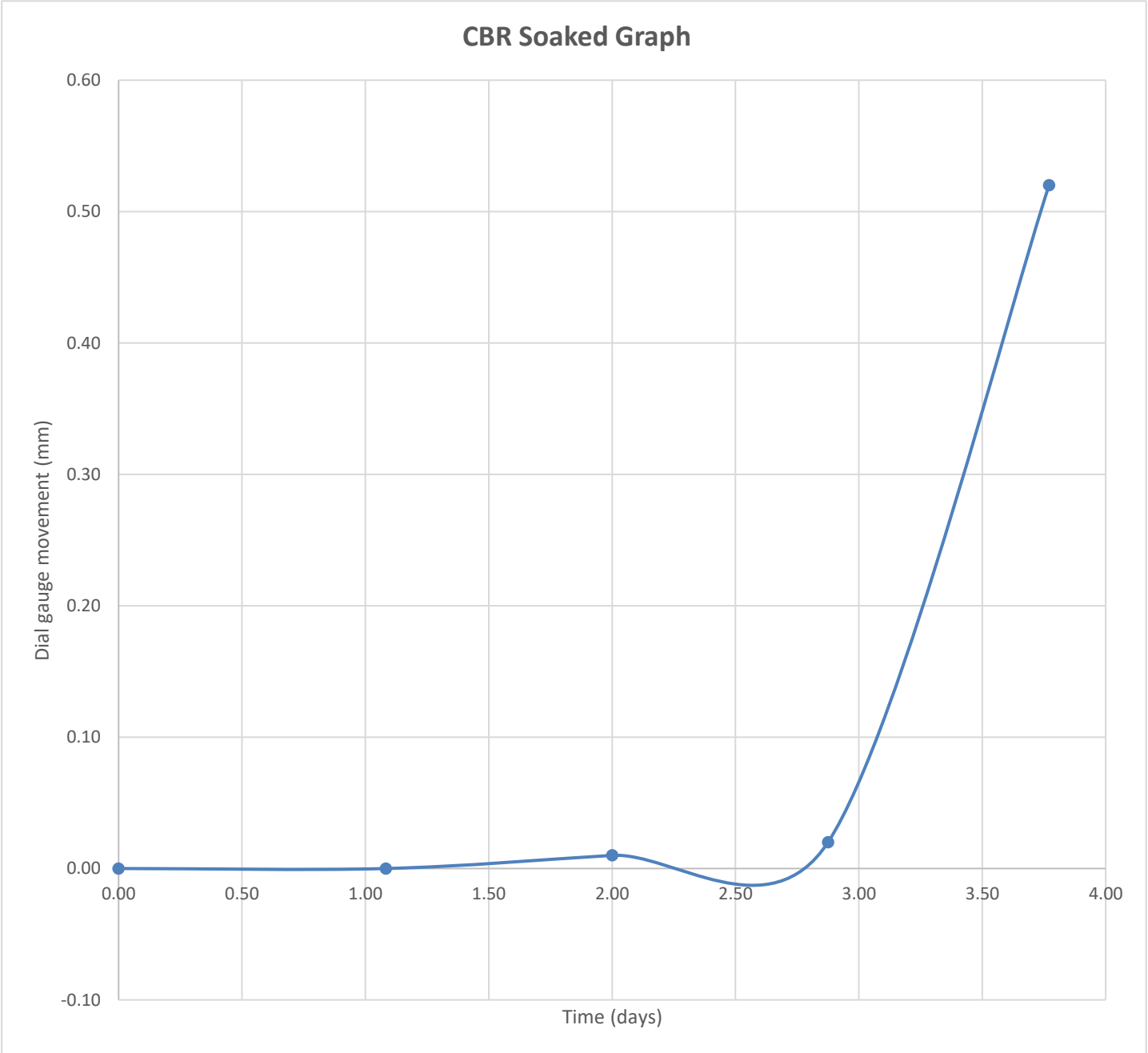
Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720670	Depth Top [m]:	0.50
Hole No.:	CBR12	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Yellowish brown CLAY		



Remarks:

Test/ Specimen specific remarks:

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Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	01/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

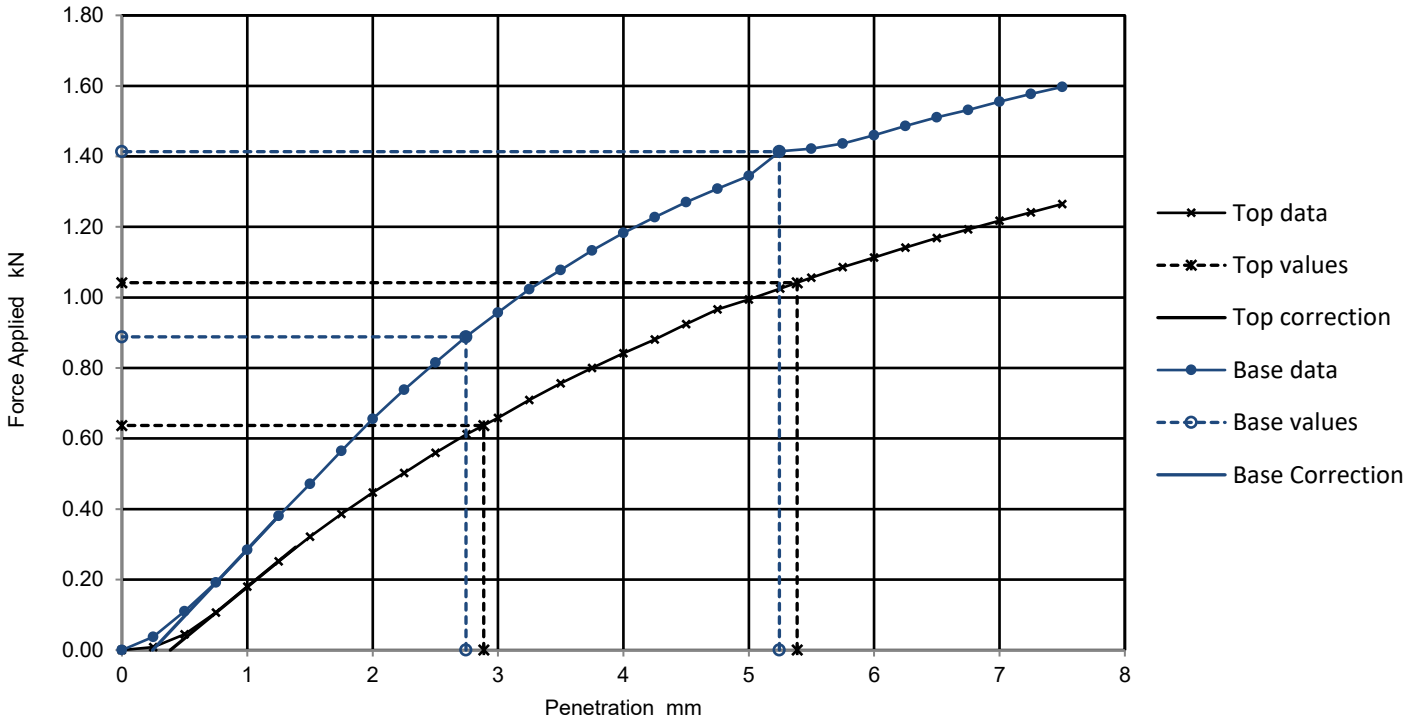
Test Results:

Laboratory Reference:	720671	Depth Top [m]:	0.30
Hole No.:	CBR13	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Yellowish brown CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	4	days
				Time to surface	3	days
				Amount of swell recorded	0.20	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	1.22	Mg/m3
Initial Specimen details	Bulk density	1.71	Mg/m3	Surcharge applied	8	kg
	Dry density	1.22	Mg/m3		4.9	kPa
	Water content	40.3	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	4.8	5.2	5.2		38.3
BASE	Yes	6.7	7.1	7.1		33.7

Remarks:

Test/ Specimen specific remarks:

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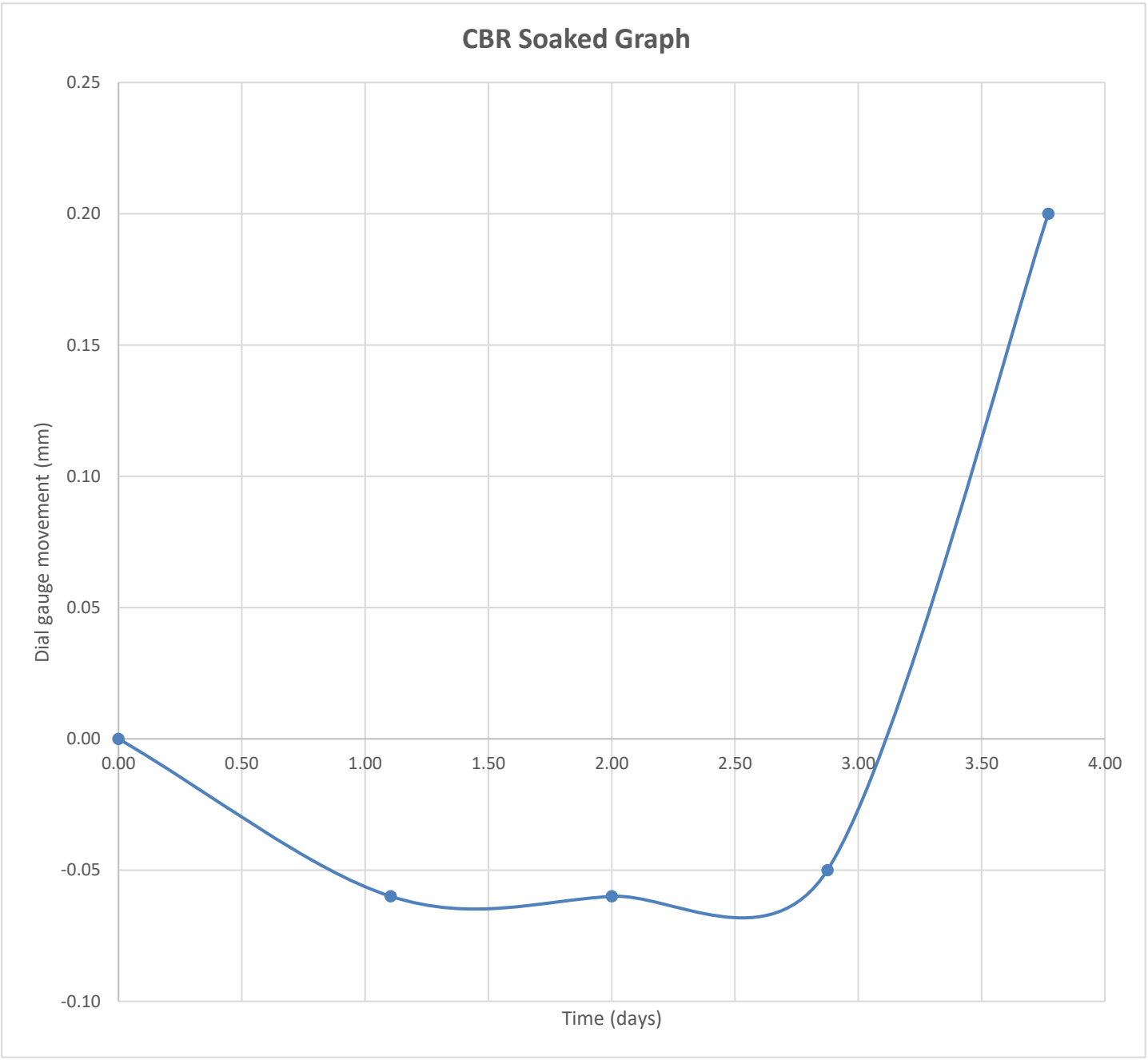
Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	01/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720671	Depth Top [m]:	0.30
Hole No.:	CBR13	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Yellowish brown CLAY		



Remarks:

Test/ Specimen specific remarks:

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Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	17/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

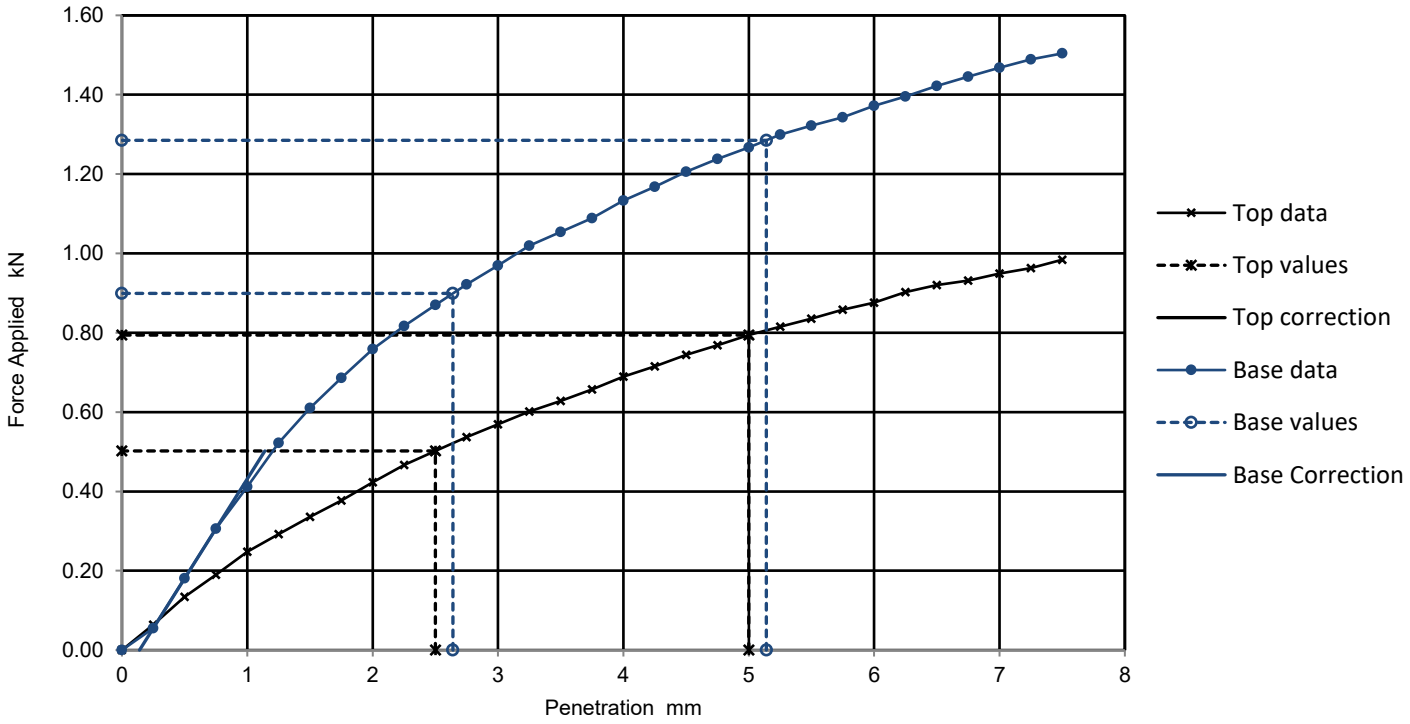
Test Results:

Laboratory Reference:	720672	Depth Top [m]:	0.40
Hole No.:	CBR14	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown silty CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	4	days
				Time to surface	3	days
				Amount of swell recorded	0.01	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	1.18	Mg/m3
Initial Specimen details	Bulk density	1.69	Mg/m3	Surcharge applied	8	kg
	Dry density	1.18	Mg/m3		4.9	kPa
	Water content	43.3	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	No	3.8	4	4		44.6
BASE	Yes	6.8	6.4	6.8		43.2

Remarks:

Test/ Specimen specific remarks:

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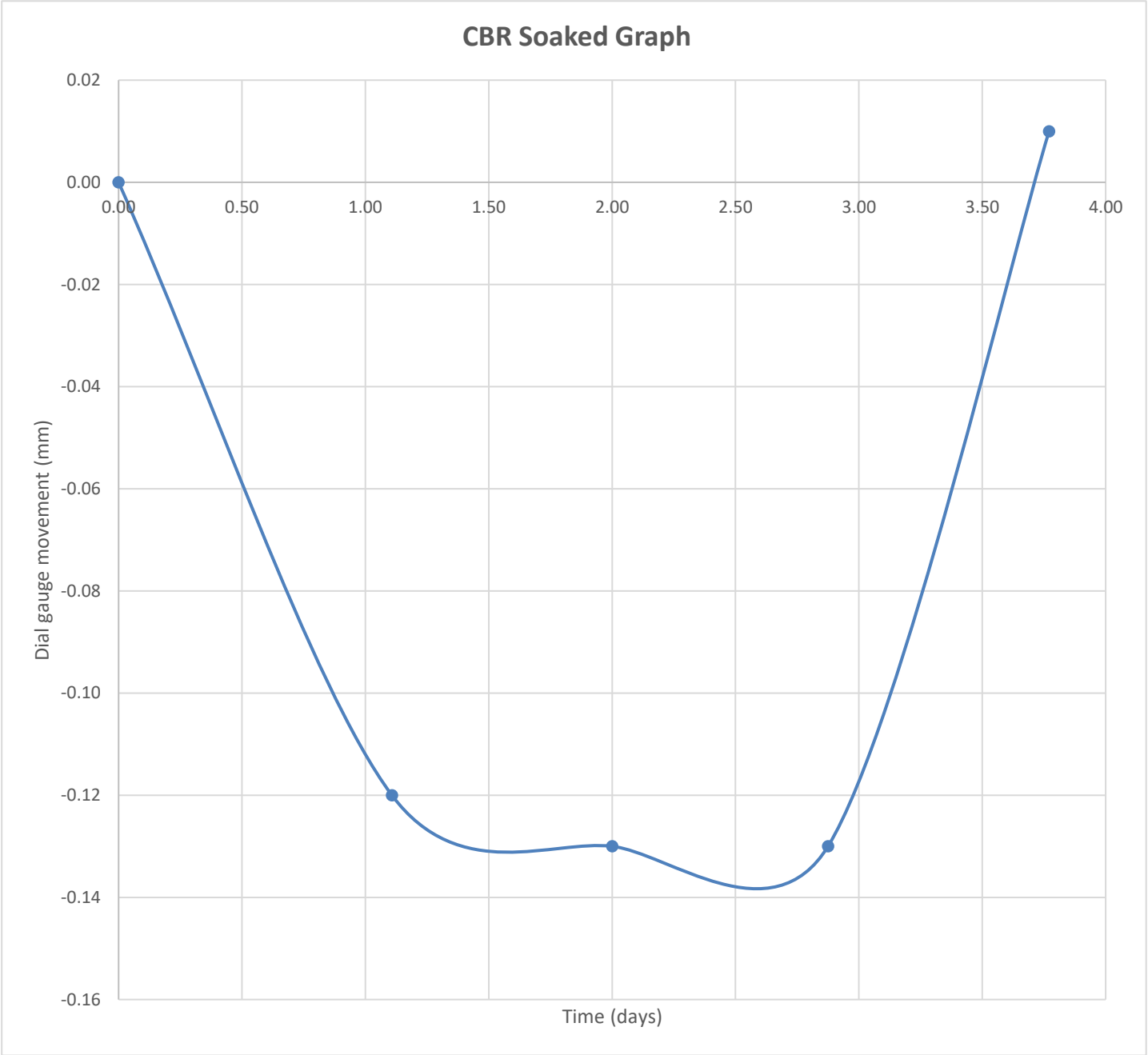
Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	17/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720672	Depth Top [m]:	0.40
Hole No.:	CBR14	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown silty CLAY		



Remarks:

Test/ Specimen specific remarks:

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Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

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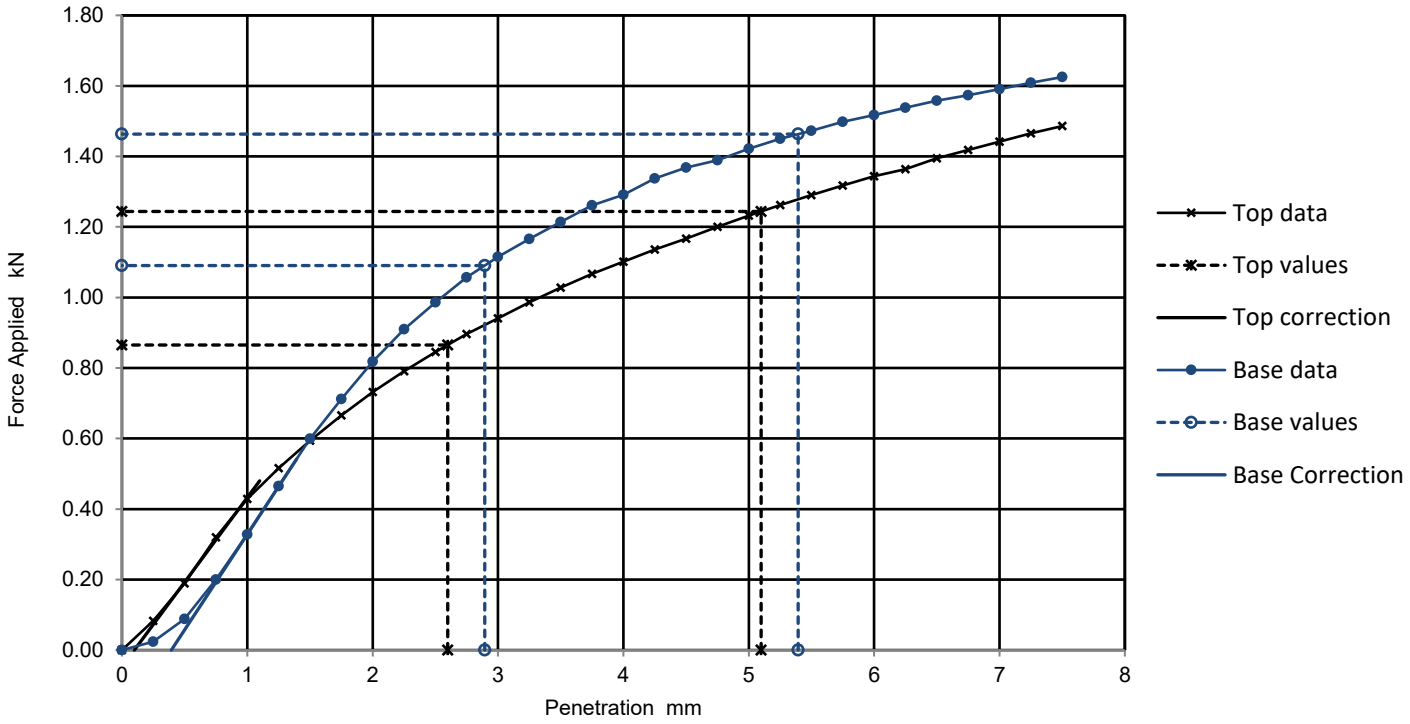
Test Results:

Laboratory Reference:	720673	Depth Top [m]:	0.30
Hole No.:	CBR15	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	4	days
				Time to surface	3	days
				Amount of swell recorded	0.64	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	1.59	Mg/m3
Initial Specimen details	Bulk density	1.96	Mg/m3	Surcharge applied	8	kg
	Dry density	1.60	Mg/m3		4.9	kPa
	Water content	22.3	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	6.6	6.2	6.6		23.6
BASE	Yes	8.3	7.3	8.3		24.2

Remarks:

Test/ Specimen specific remarks:

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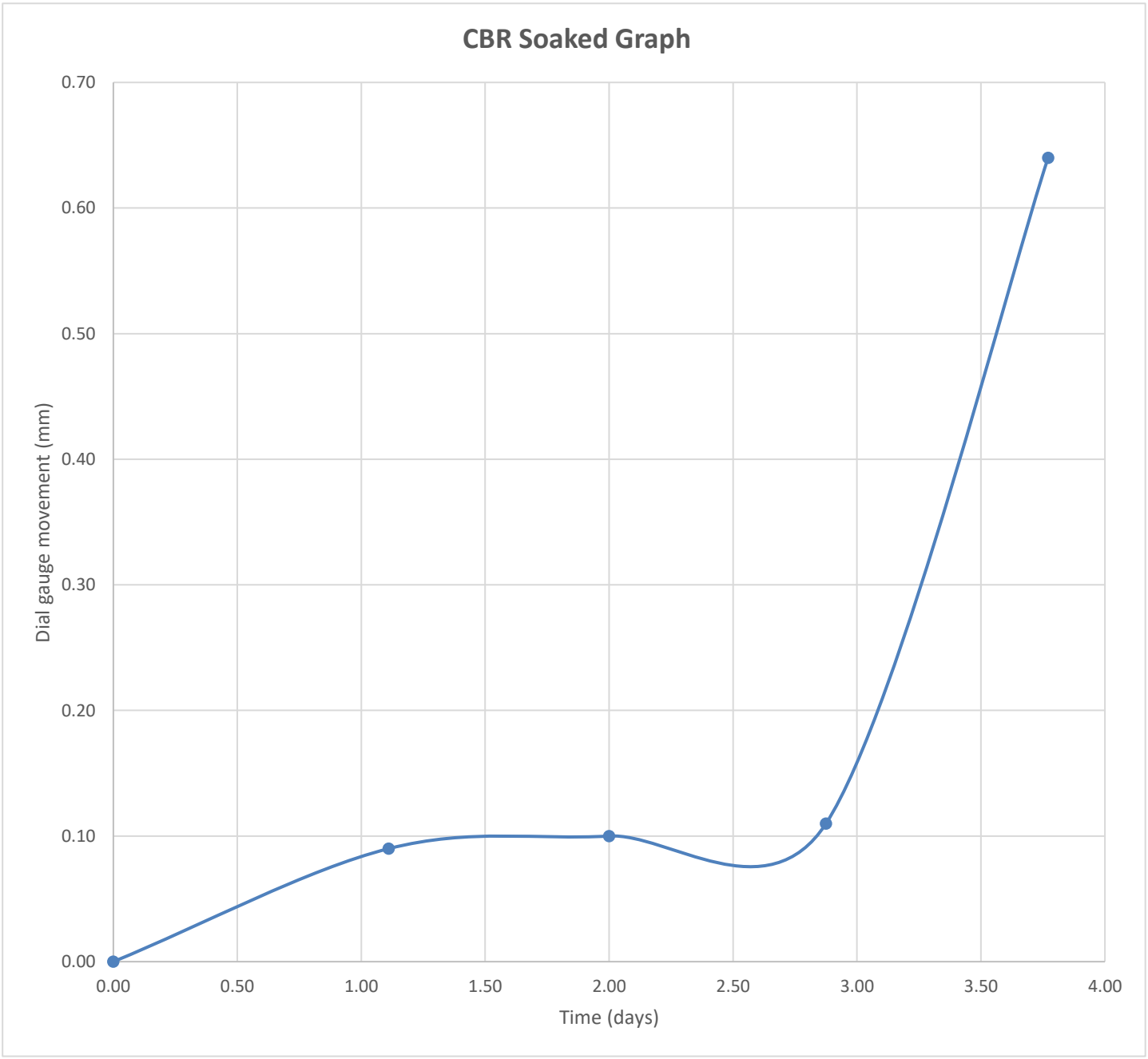
Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720673	Depth Top [m]:	0.30
Hole No.:	CBR15	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly CLAY		



Remarks:

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Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

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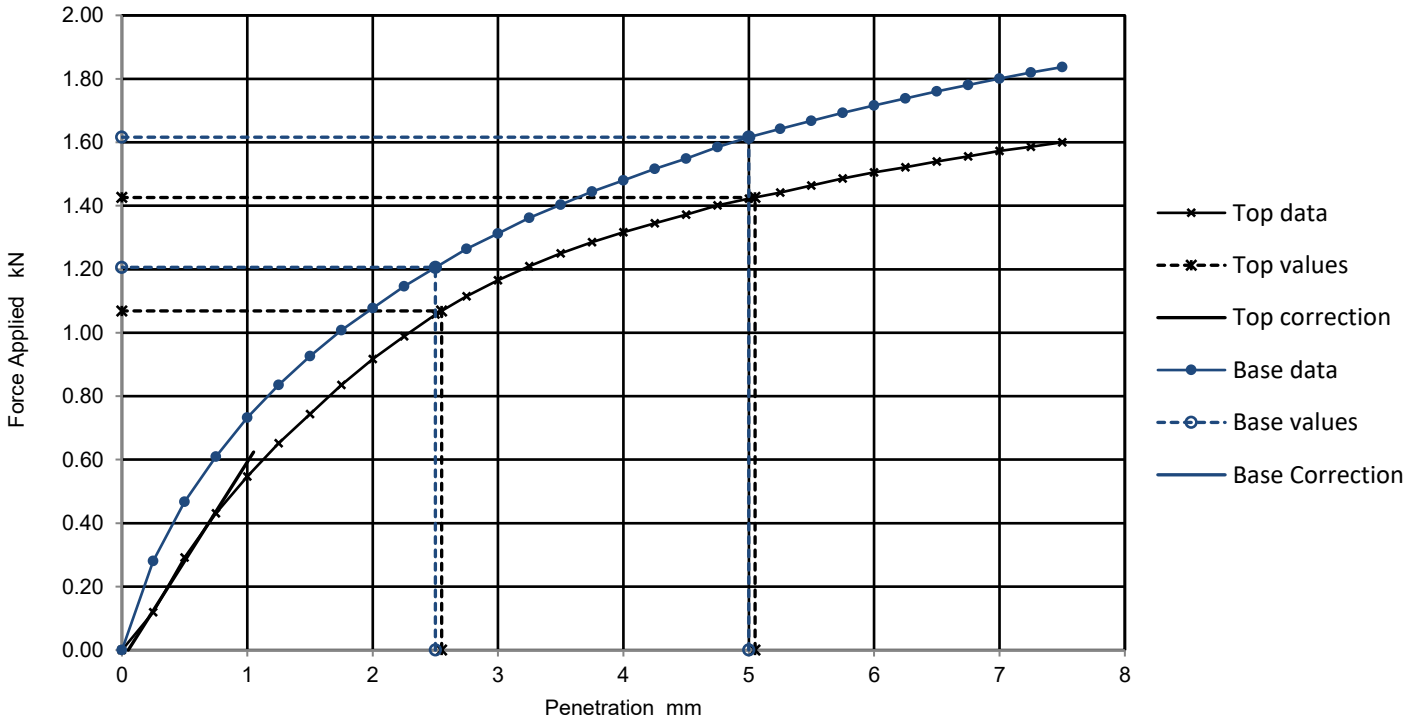
Test Results:

Laboratory Reference:	720674	Depth Top [m]:	0.40
Hole No.:	CBR16	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	4	days
				Time to surface	3	days
				Amount of swell recorded	0.30	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	1.60	Mg/m3
Initial Specimen details	Bulk density	1.95	Mg/m3	Surcharge applied	8	kg
	Dry density	1.60	Mg/m3		4.9	kPa
	Water content	21.7	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	8.1	7.1	8.1	8.6	23.5
BASE	No	9.1	8.1	9.1		22.5

Remarks:

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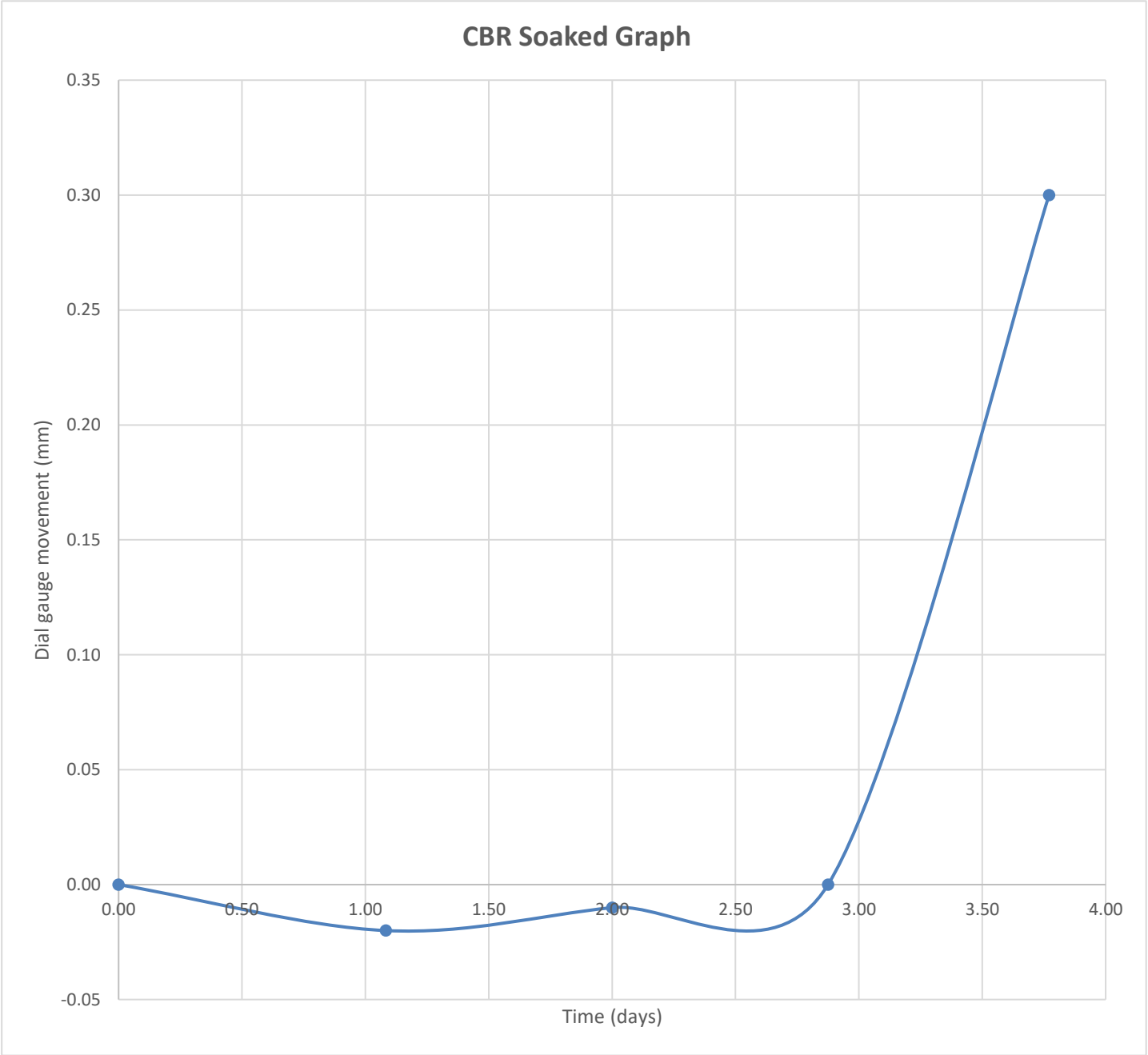
Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720674	Depth Top [m]:	0.40
Hole No.:	CBR16	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown CLAY		



Remarks:

Test/ Specimen specific remarks:

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Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

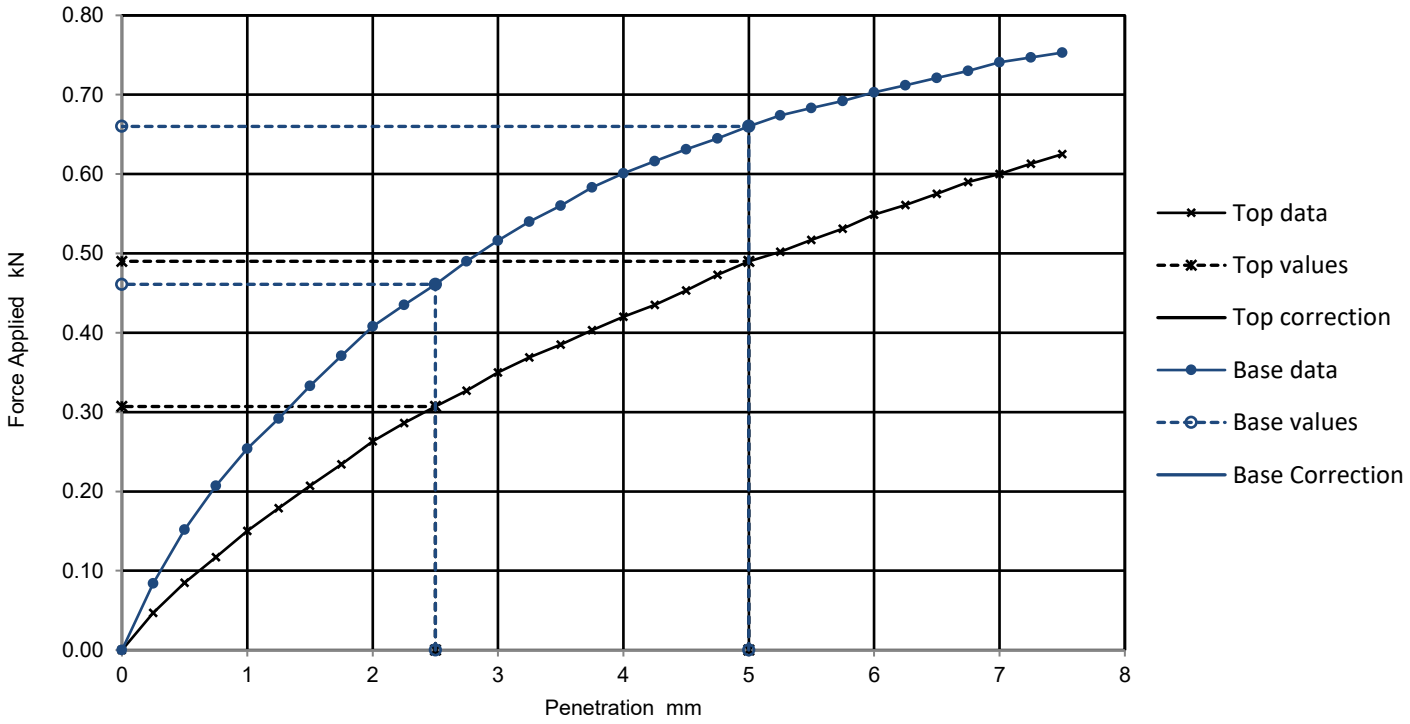
Test Results:

Laboratory Reference:	720675	Depth Top [m]:	0.40
Hole No.:	CBR2	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	4	days
				Time to surface	3	days
				Amount of swell recorded	0.13	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	1.14	Mg/m3
Initial Specimen details	Bulk density	1.68	Mg/m3	Surcharge applied	8	kg
	Dry density	1.14	Mg/m3		4.9	kPa
	Water content	47.6	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	No	2.3	2.5	2.5		48.2
BASE	No	3.5	3.3	3.5		47.8

Remarks:

Test/ Specimen specific remarks:

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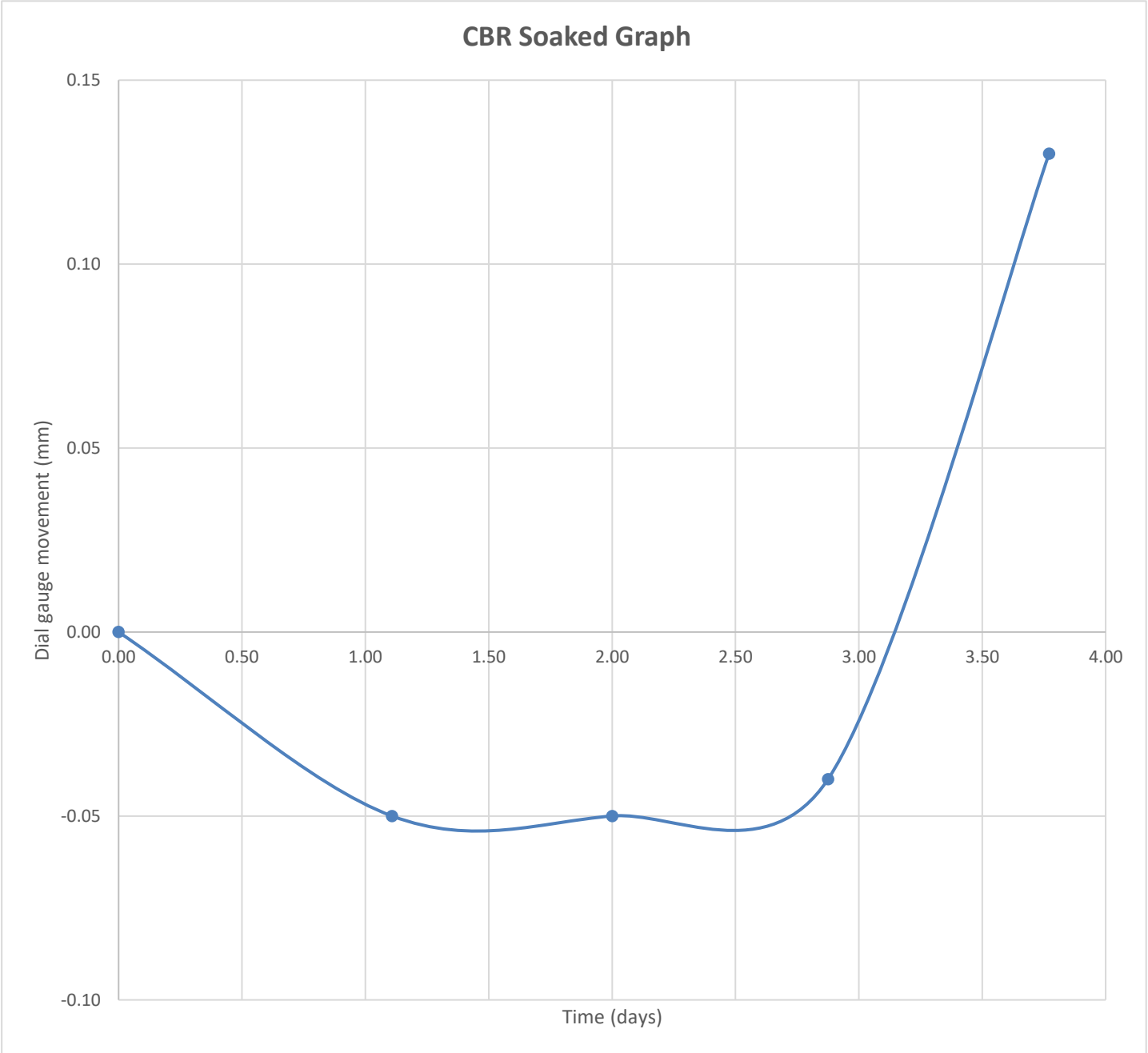
Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720675	Depth Top [m]:	0.40
Hole No.:	CBR2	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		



Remarks:

Test/ Specimen specific remarks:

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Tested in Accordance with: BS 1377-2:2022 Cl 15.3

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Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

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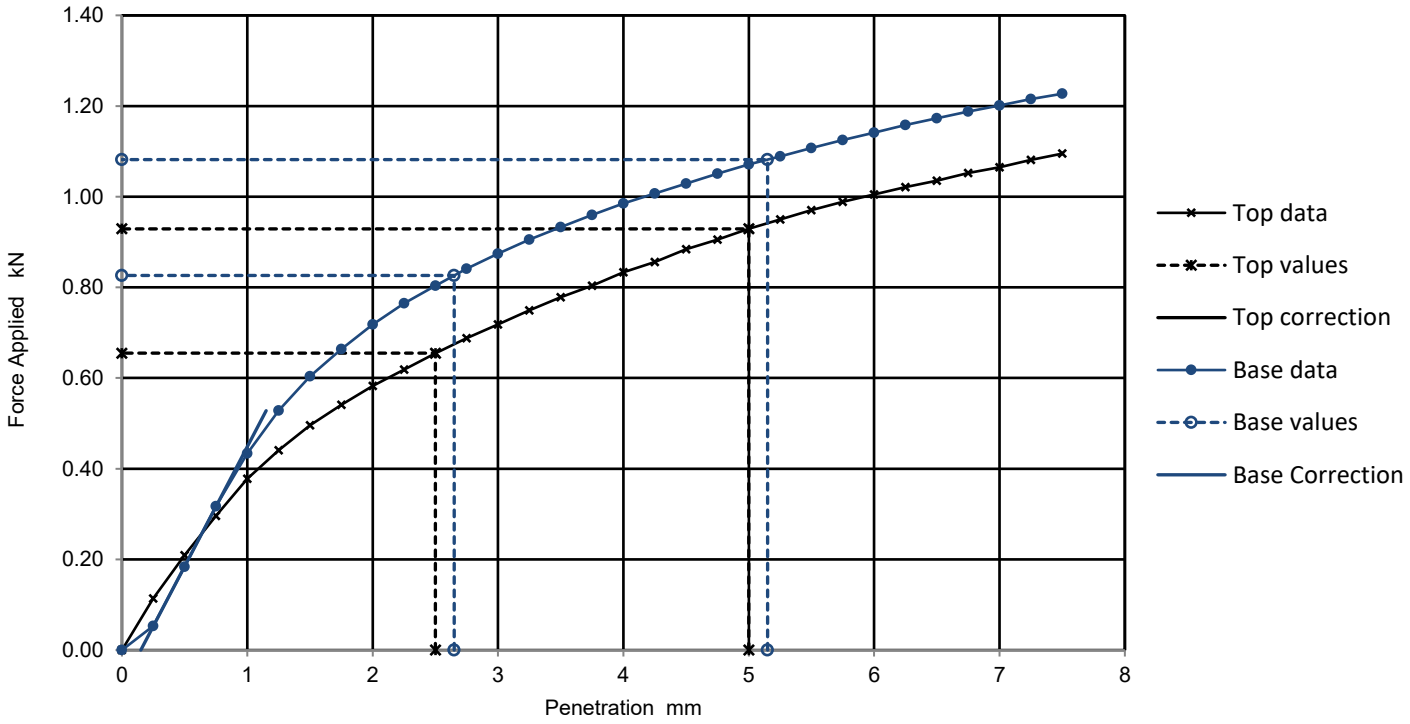
Test Results:

Laboratory Reference:	720676	Depth Top [m]:	0.40
Hole No.:	CBR4	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		

Specimen Preparation:

Condition	Undisturbed			Soaking details		
Details	Undisturbed			Period of soaking	4	days
				Time to surface	3	days
				Amount of swell recorded	0.58	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	1.24	Mg/m3
Initial Specimen details	Bulk density	1.73	Mg/m3	Surcharge applied	8	kg
	Dry density	1.24	Mg/m3		4.9	kPa
	Water content	39.3	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	No	5	4.6	5		42.5
BASE	Yes	6.3	5.4	6.3		40.8

Remarks:

Test/ Specimen specific remarks:

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 Date Reported: 12/12/2025 **GF 597.3**

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-2:2022 Cl 15.3

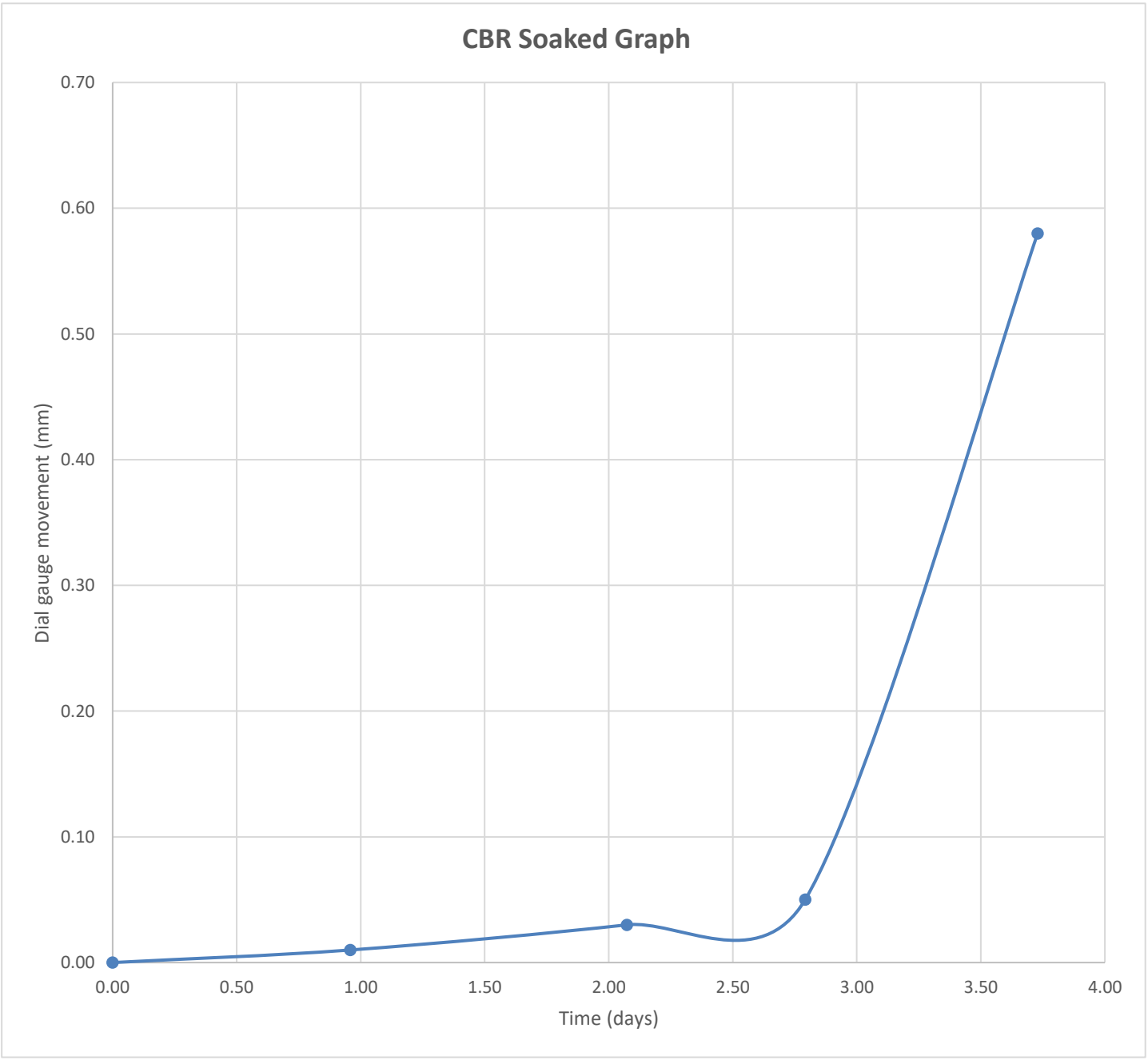
4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	06/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720676	Depth Top [m]:	0.40
Hole No.:	CBR4	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		



Remarks:

Test/ Specimen specific remarks:

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 597.3

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-2:2022 Cl 15.3

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

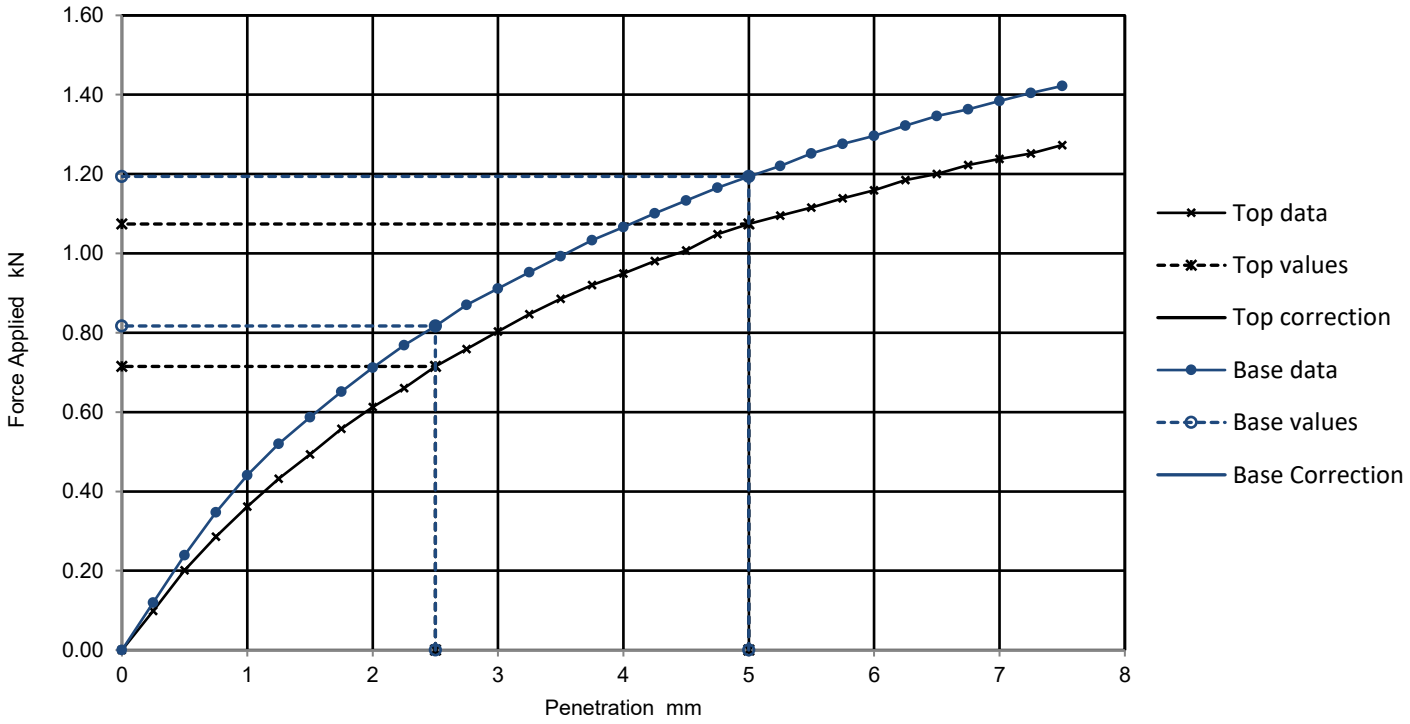
Test Results:

Laboratory Reference:	720677	Depth Top [m]:	0.30
Hole No.:	CBR6	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	4	days
				Time to surface	3	days
				Amount of swell recorded	0.01	mm
Material retained on 20mm sieve removed		1	%	Dry density after soaking	1.56	Mg/m3
Initial Specimen details	Bulk density	1.94	Mg/m3	Surcharge applied	8	kg
	Dry density	1.56	Mg/m3		4.9	kPa
	Water content	24.6	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	No	5.4	5.4	5.4	5.8	25.5
BASE	No	6.2	6	6.2		25.0

Remarks:

Test/ Specimen specific remarks:

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GF 597.3

4041

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-2:2022 Cl 15.3

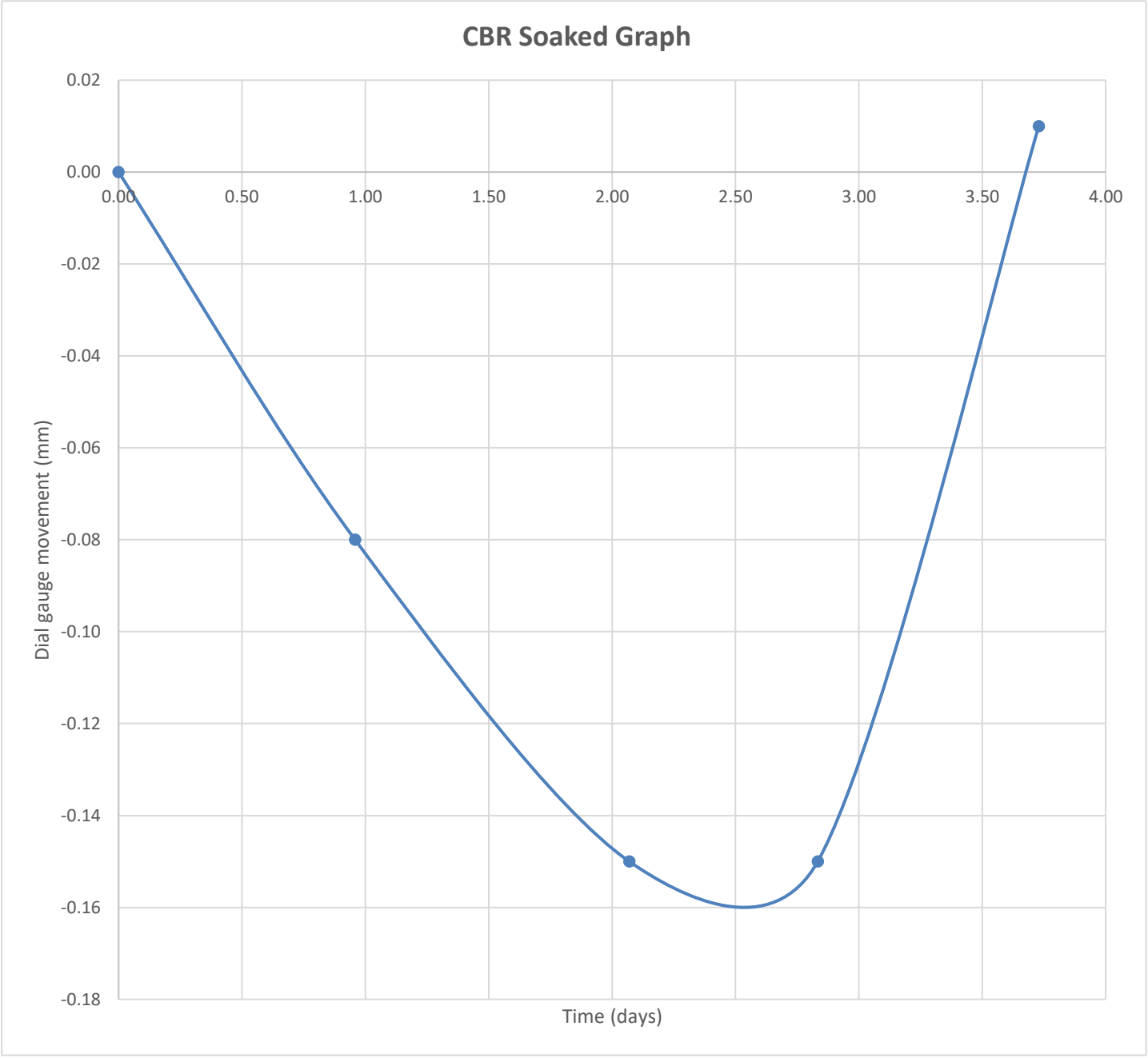
Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720677	Depth Top [m]:	0.30
Hole No.:	CBR6	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown CLAY		



Remarks:

Test/ Specimen specific remarks:

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 597.3

i2 Analytical Ltd, Unit 8, Harrowden Road, Brackmills Industrial Estate, Northampton, NN4 7EB

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-2:2022 Cl 15.3

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

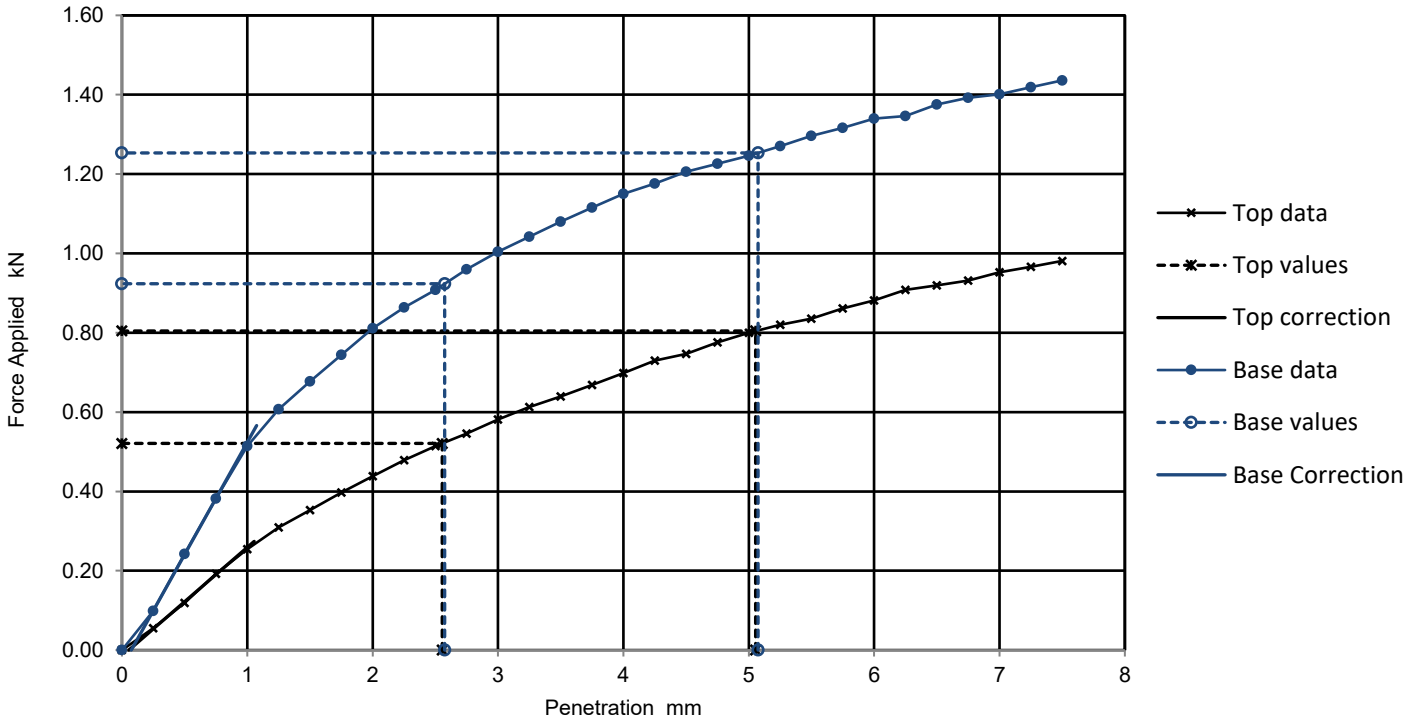
Test Results:

Laboratory Reference:	720678	Depth Top [m]:	0.30
Hole No.:	CBR7	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	4	days
				Time to surface	2	days
				Amount of swell recorded	0.10	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	1.62	Mg/m3
Initial Specimen details	Bulk density	1.97	Mg/m3	Surcharge applied	8	kg
	Dry density	1.62	Mg/m3		4.9	kPa
	Water content	21.3	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	3.9	4	4		24.1
BASE	Yes	7	6.3	7		22.2

Remarks:

Test/ Specimen specific remarks:

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4041

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DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

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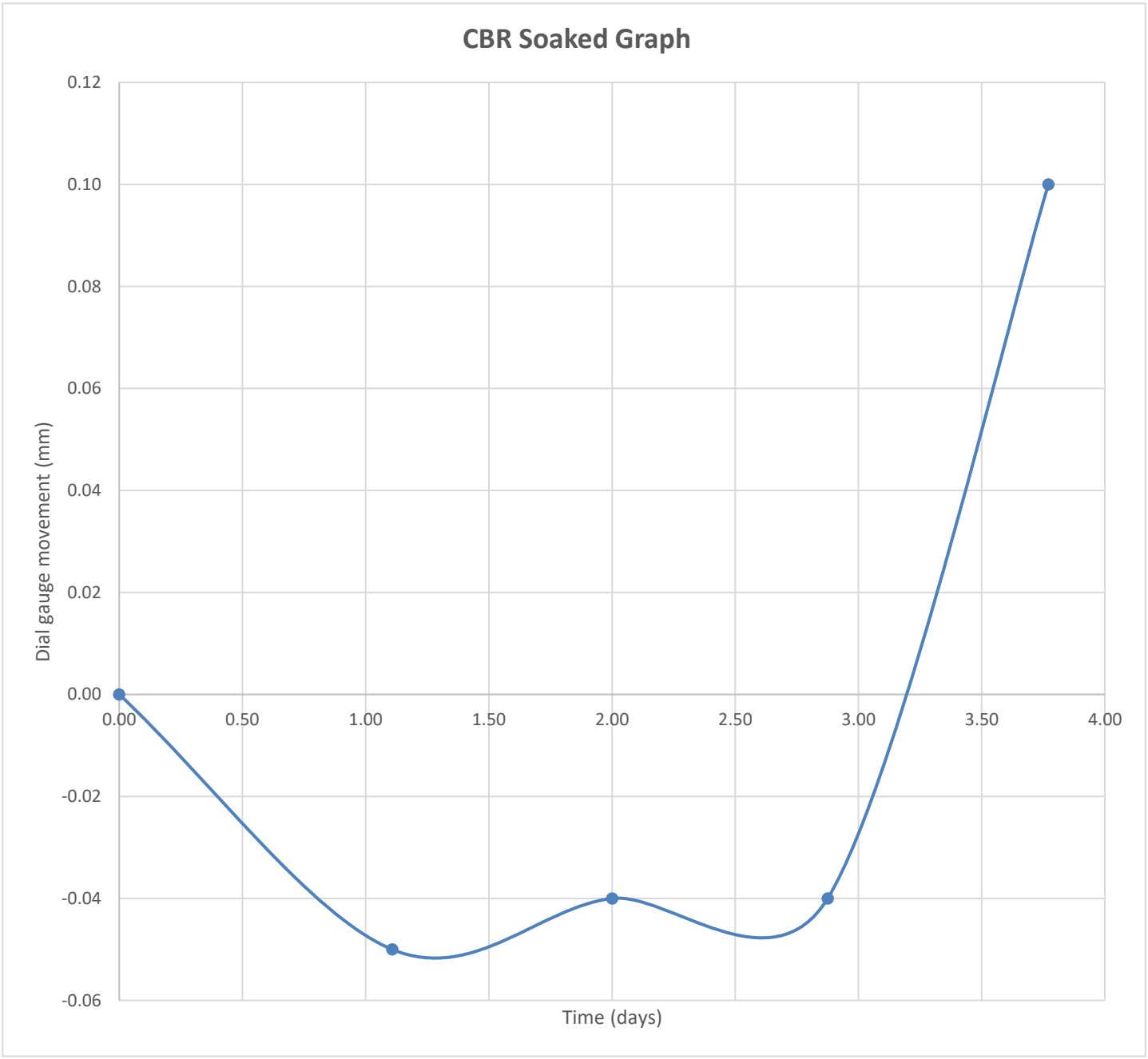
Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720678	Depth Top [m]:	0.30
Hole No.:	CBR7	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown slightly gravelly CLAY		



Remarks:

Test/ Specimen specific remarks:

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Client:	Merebrook	Client Reference:	21949AH
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		Date Sampled:	30/09/2025
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Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

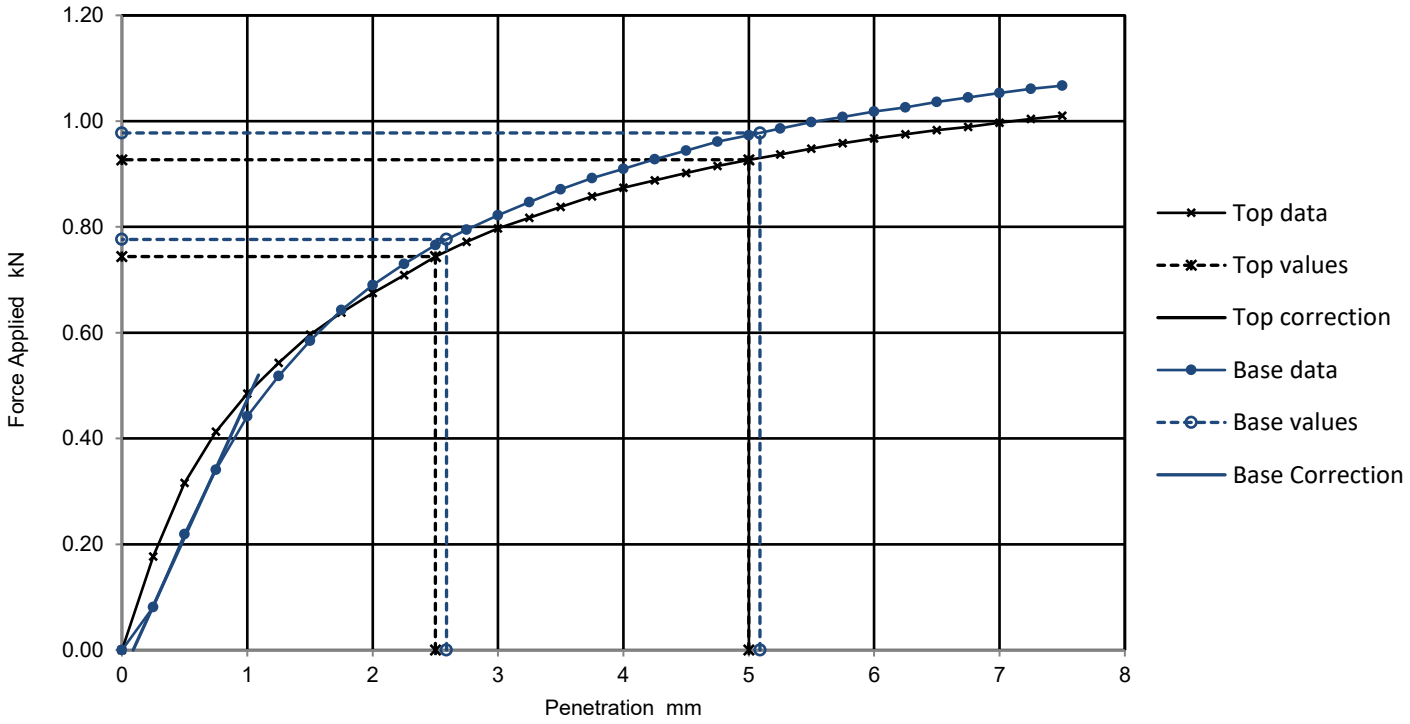
Test Results:

Laboratory Reference:	720679	Depth Top [m]:	0.40
Hole No.:	CBR8	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	4	days
				Time to surface	3	days
				Amount of swell recorded	0.97	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	1.21	Mg/m3
Initial Specimen details	Bulk density	1.72	Mg/m3	Surcharge applied	8	kg
	Dry density	1.22	Mg/m3		4.9	kPa
	Water content	40.8	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Water Content %
		2.5mm	5mm	Highest	Average	
TOP	No	5.6	4.6	5.6	5.8	43.6
BASE	Yes	5.9	4.9	5.9		43.7

Remarks:

Test/ Specimen specific remarks:

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Date Reported: 12/12/2025

GF 597.3

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-2:2022 Cl 15.3

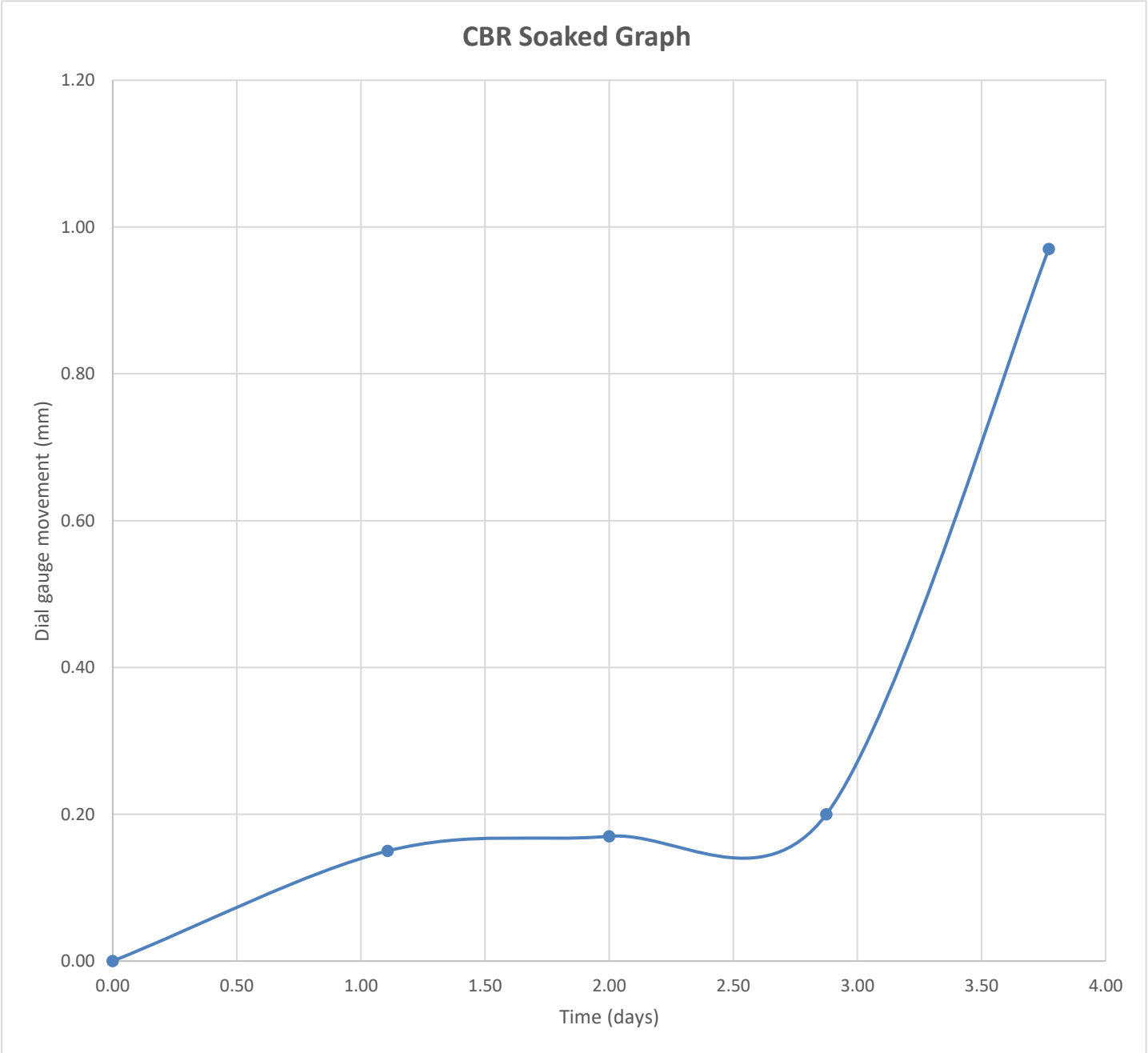
4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	30/09/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	15/11/2025
Site Address:	Glebe Farm	Sampled By:	Cliernt - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720679	Depth Top [m]:	0.40
Hole No.:	CBR8	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Light brown CLAY		



Remarks:

Test/ Specimen specific remarks:

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for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 597.3

i2 Analytical Ltd, Unit 8, Harrowden Road, Brackmills Industrial Estate, Northampton, NN4 7EB

TEST CERTIFICATE

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

Tested in Accordance with: BS EN ISO 17982-8:2018,
BS 1377-2 Cl. 28:2022

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	08/10/2025
Contact:	Charlie Oliveira	Date Tested:	29/10/2025
Site Address:	Glebe Farm	Sampled By:	Client - Tim Stempt

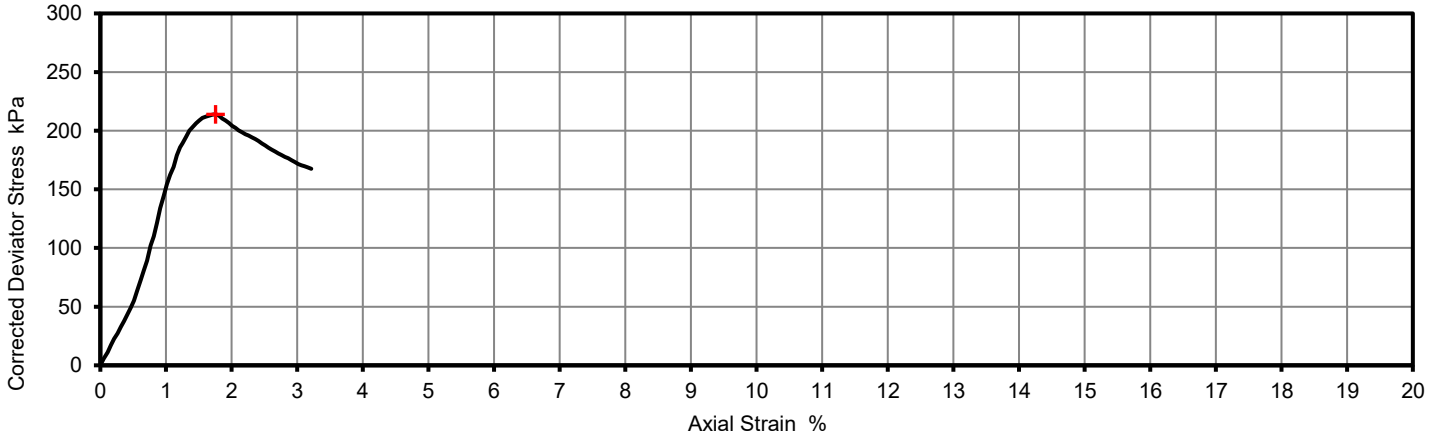
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

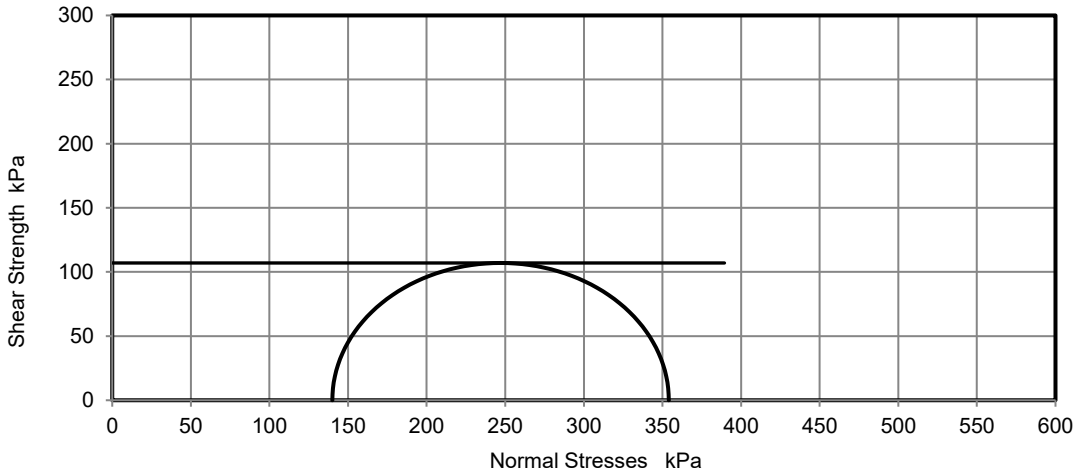
Laboratory Reference:	720614	Depth Top [m]:	7.00
Hole No.:	BH05	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	U
Sample Description:	Dark grey CLAY		
Sample Preparation:	Sample prepared in accordance with BS EN ISO 17892-8: 2018 Clause 6.2.		

Test Number	1		Rate of Strain	1.00	%/min	
Depth within Sample	-	m	Cell Pressure	140	kPa	
Length	99.56	mm	Axial Strain at Failure	1.8	%	
Diameter	50.19	mm	Deviator Stress, (σv-σh)	214	kPa	
Length Prior to Shearing	99.56	mm	Undrained Shear Strength, cu	107	kPa	½(σv-σh)
Bulk Density	1.97	Mg/m3	Mode of Failure	Brittle		
Initial Water Content	23.8	%	Membrane Thickness	0.23	mm	
Final Water Content	23.4	%	Membrane Correction	0.46	kPa	
Dry Density	1.59	Mg/m3				

Deviator Stress v Axial Strain

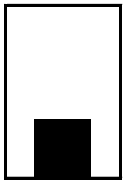


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects.

Remarks:

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 463.6

i2 Analytical Ltd, Unit 8, Harrowden Road, Brackmills Industrial Estate, Northampton, NN4 7EB

4041

TEST CERTIFICATE

CONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION TEST WITH MEASUREMENT OF PORE WATER PRESSURE

Tested in Accordance with: BS EN ISO 17892-9:2018, BS 1377-2 Cl. 29:2022

Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	10/08/2025
Contact:	Charlie Oliveira	Date Tested:	26/11/2025
Site Address:	Glebe Farm	Sampled By:	Clint - Tim Stempt

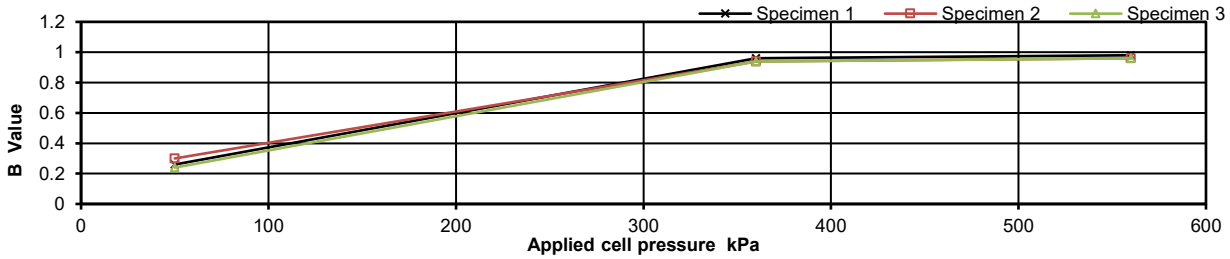
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

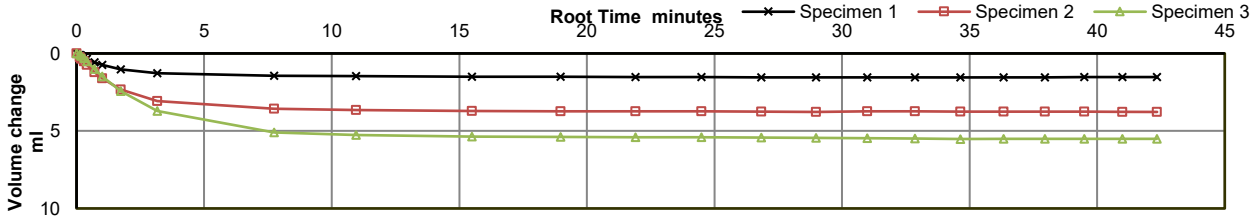
Laboratory Reference:	720609	Depth Top [m]:	2.50
Hole No.:	BH05	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	U
Sample Description:	Light brown silty CLAY with fragments of siltstones		
Sample Preparation:	Sample prepared in accordance with BS EN ISO 17892-9: 2018 Clause 6.2.		

Specimen Details			1	2	3
Initial	Height	mm	77.7	77.8	76.3
	Diameter	mm	38.1	37.9	38.4
	Bulk Density	Mg/m³	1.92	1.89	1.87
	Water Content	%	30.6	30.6	30.6
	Dry Density	Mg/m³	1.47	1.45	1.43
	Saturation	%	101	97	95
	Voids Ratio		0.805	0.833	0.854
	Membrane thickness	mm	0.24	0.25	0.25
Final	Bulk Density	Mg/m³	1.99	2.01	2.01
	Water Content	%	32.6	33.5	33.7
	Dry density	Mg/m³	1.50	1.51	1.50

Saturation Details		1	2	3
Method		Cell and Back Pressures increased simultaneously		
Cell Pressure Increments	kPa	50	50	50
Differential Pressure	kPa	5	5	5
Final Cell Pressure	kPa	560	560	560
Final Pore Water Pressure	kPa	554	554	554
Final B Value		0.98	0.96	0.96
Duration	days	5	5	5



Consolidation Details	Specimen	1	2	3	
	Drainage conditions	Radial+1 end	Radial+1 end	Radial+1 end	
	Cell pressure applied	650	700	799	kPa
	Back pressure applied	600	600	600	kPa
	Effective pressure	50	100	200	kPa
	Pore pressure at start of consolidation	643	691	766	kPa
	Pore pressure at end of consolidation	600	601	601	kPa
	Pore pressure dissipation at end of consolidation	100	99	99	%
	Vertical strain at end of consolidation	0.574	1.431	2.079	%
	Volumetric strain at end of consolidation	1.723	4.292	6.237	%
	Rate of volumetric strain	-0.002	0.001	0.001	%/h
	Duration	1	1	1	days



Remarks: Deviator stresses corrected for area change, vertical side drains and up to 0.24 mm thick rubber membrane. Subsample 1 contained fragments of siltstones. Interpretation conducted on subsamples 2 and 3.

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 454.9

4041

TEST CERTIFICATE

CONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION TEST WITH MEASUREMENT OF PORE WATER PRESSURE

Tested in Accordance with: BS EN ISO 17892-9:2018, BS 1377-2 Cl. 29:2022

Normec i2 Analytical

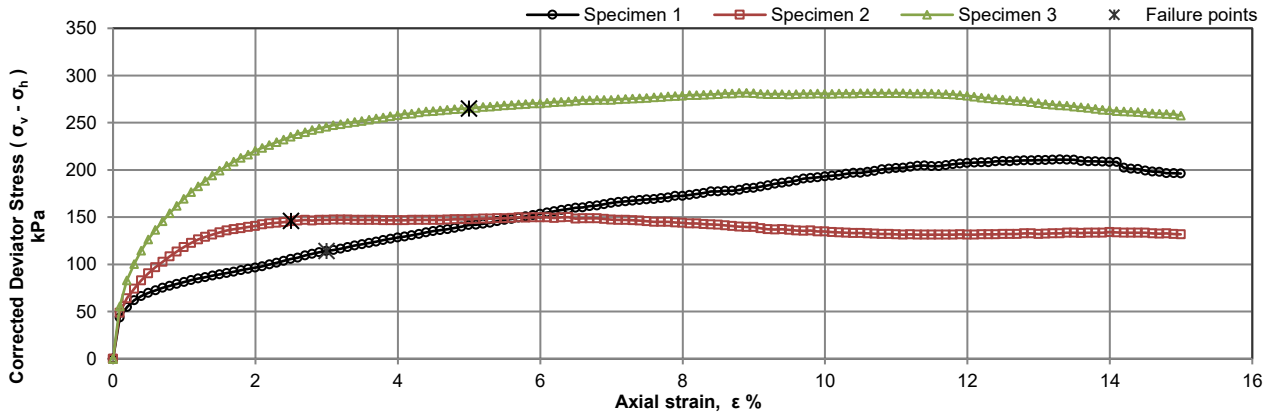
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	10/08/2025
Contact:	Charlie Oliveira	Date Tested:	26/11/2025
Site Address:	Glebe Farm	Sampled By:	Clint - Tim Stempt

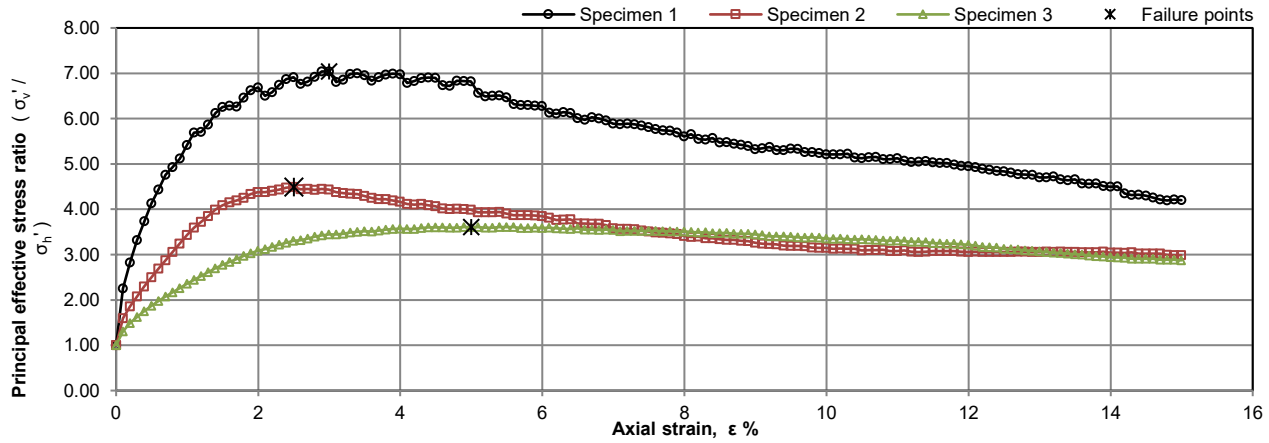
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

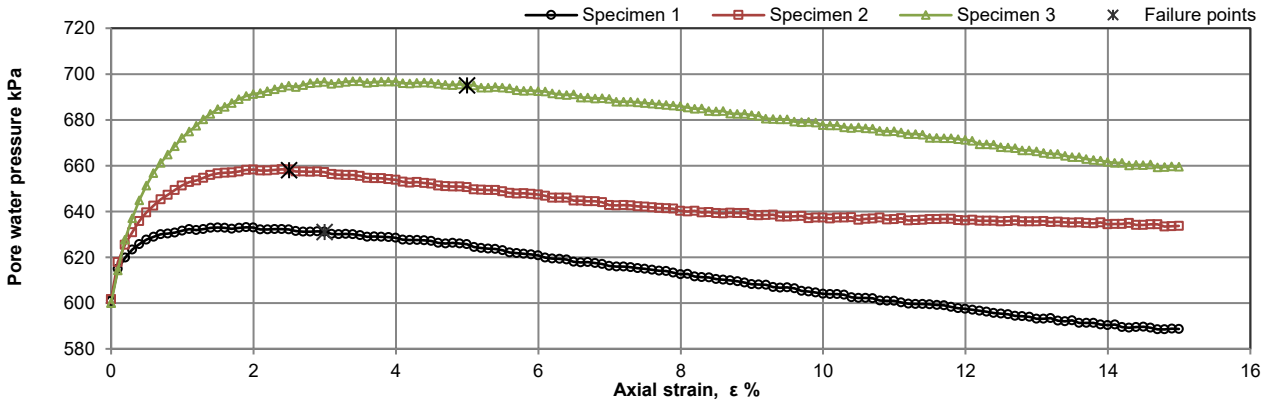
Test Results:

Laboratory Reference:	720609	Depth Top [m]:	2.50
Hole No.:	BH05	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	U
Sample Description:	Light brown silty CLAY with fragments of siltstones		

Compression stages - graphical data







Remarks: Deviator stresses corrected for area change, vertical side drains and up to 0.24 mm thick rubber membrane. Subsample 1 contained fragments of siltstones. Interpretation conducted on subsamples 2 and 3.

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Tested in Accordance with: BS EN ISO 17892-9:2018, BS 1377-2 Cl. 29:2022

Normec i2 Analytical

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	10/08/2025
Contact:	Charlie Oliveira	Date Tested:	26/11/2025
Site Address:	Glebe Farm	Sampled By:	Clint - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720609	Depth Top [m]:	2.50
Hole No.:	BH05	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	U
Sample Description:	Light brown silty CLAY with fragments of siltstones		

Compression stages - table of results and interpretation

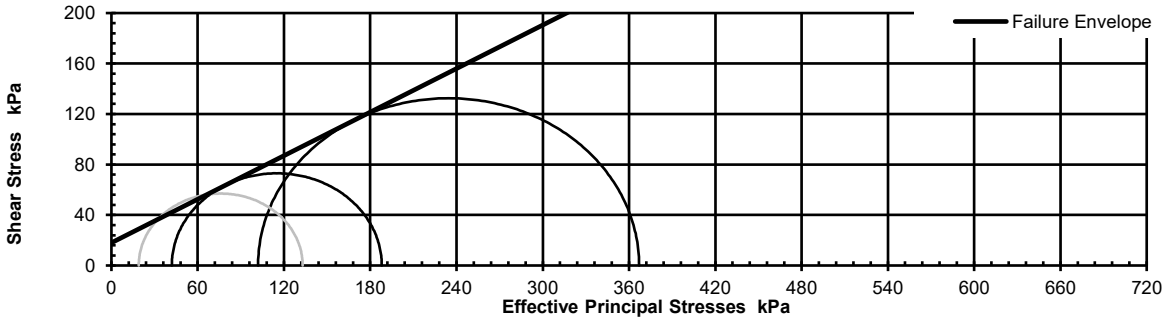
Failure criterion: Maximum effective principal stress ratio

Specimen	Cell pressure kPa	Initial pwp kPa	Initial σh' kPa	Rate of strain %/hr	Axial strain, εf %	(σv - σh) f kPa	(σv' / σh') f kPa	σh' f kPa	σv' f kPa	uf kPa	Af	Duration days
1	650	600	50	0.78	3.0	114	7.04	19	133	631	0.26	1
2	700	600	100	0.78	2.5	146	4.49	42	187	658	0.39	1
3	799	600	200	0.80	5.0	265	3.61	102	367	695	0.36	1

Specimen		1	2	3
Secant modulus E50	MPa	N/A	N/A	N/A
Strain at E50	%	N/A	N/A	N/A

Specimen		1	2	3
Membrane correction	kPa	1.09	0.94	1.89
Side drain correction	kPa	10.03	10.18	10.11

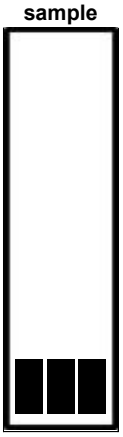
Mohr Circles



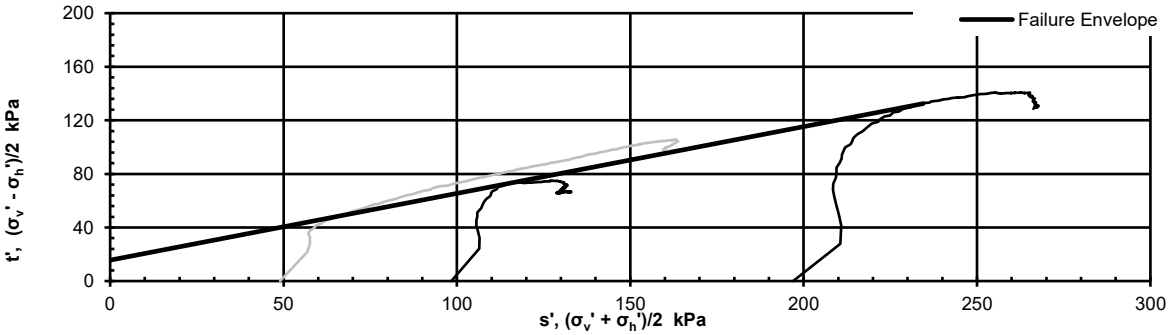
Particle density

Assumed	
2.65	Mg/m3

Position within sample



Stress Path



Mode of failure


Compound


Brittle


Compound

Shear Strength Parameters		Linear regression	Manual re-assessment
c '	kPa	18.2	-
Ø '	degrees	29.9	-

Specimen	Total duration
1	7 days
2	7 days
3	7 days

Remarks: Deviator stresses corrected for area change, vertical side drains and up to 0.24 mm thick rubber membrane. Subsample 1 contained fragments of siltstones. Interpretation conducted on subsamples 2 and 3.

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 454.9

TEST CERTIFICATE

CONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION TEST WITH MEASUREMENT OF PORE WATER PRESSURE

Tested in Accordance with: BS EN ISO 17892-9:2018, BS 1377-2 Cl. 29:2022

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	10/08/2025
Contact:	Charlie Oliveira	Date Tested:	24/11/2025
Site Address:	Glebe Farm	Sampled By:	Clint - Tim Stempt

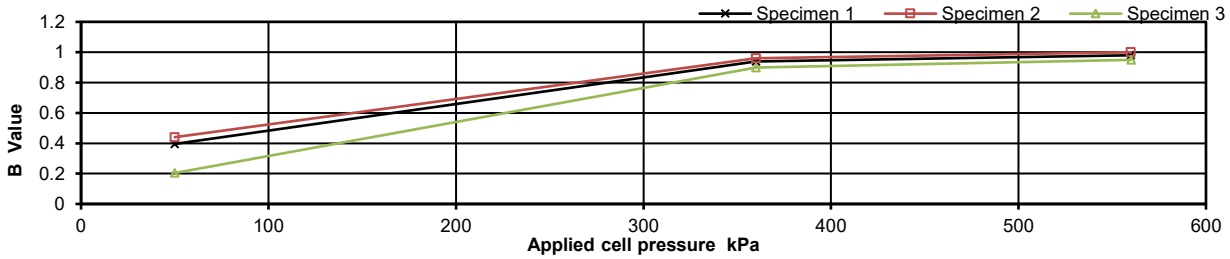
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

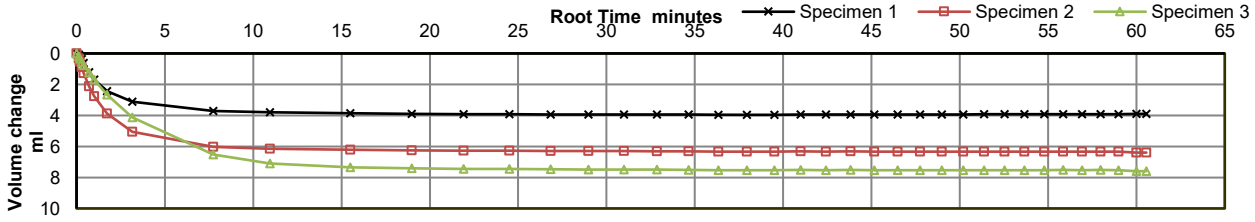
Laboratory Reference:	720612	Depth Top [m]:	4.50
Hole No.:	BH05	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	U
Sample Description:	Light brown silty CLAY		
Sample Preparation:	Sample prepared in accordance with BS EN ISO 17892-9: 2018 Clause 6.2.		

Specimen Details			1	2	3
Initial	Height	mm	77.0	76.2	76.7
	Diameter	mm	37.8	37.9	38.0
	Bulk Density	Mg/m³	1.93	1.93	1.95
	Water Content	%	27.4	27.4	27.4
	Dry Density	Mg/m³	1.52	1.51	1.53
	Saturation	%	97	97	99
	Voids Ratio		0.747	0.75	0.734
	Membrane thickness	mm	0.23	0.24	0.24
Final	Bulk Density	Mg/m³	2.09	2.11	2.17
	Water Content	%	31.1	29.1	31.7
	Dry density	Mg/m³	1.59	1.64	1.65

Saturation Details		1	2	3
Method		Cell and Back Pressures increased simultaneously		
Cell Pressure Increments	kPa	50	50	50
Differential Pressure	kPa	5	5	5
Final Cell Pressure	kPa	560	560	560
Final Pore Water Pressure	kPa	554	555	552
Final B Value		0.98	1.00	0.95
Duration	days	4	4	4



Consolidation Details	Specimen	1	2	3	
	Drainage conditions	Radial+1 end	Radial+1 end	Radial+1 end	
	Cell pressure applied	699	800	950	kPa
	Back pressure applied	599	600	550	kPa
	Effective pressure	100	200	400	kPa
	Pore pressure at start of consolidation	680	793	908	kPa
	Pore pressure at end of consolidation	600	600	552	kPa
	Pore pressure dissipation at end of consolidation	99	100	100	%
	Vertical strain at end of consolidation	1.505	2.479	2.912	%
	Volumetric strain at end of consolidation	4.514	7.437	8.735	%
	Rate of volumetric strain	-0.002	0.000	0.000	%/h
	Duration	2.5	2.5	2.5	days



Remarks: Deviator stresses corrected for area change, vertical side drains and up to 0.24 mm thick rubber membrane.

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4041

TEST CERTIFICATE

CONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION TEST WITH MEASUREMENT OF PORE WATER PRESSURE

Tested in Accordance with: BS EN ISO 17892-9:2018, BS 1377-2 Cl. 29:2022

Normec i2 Analytical

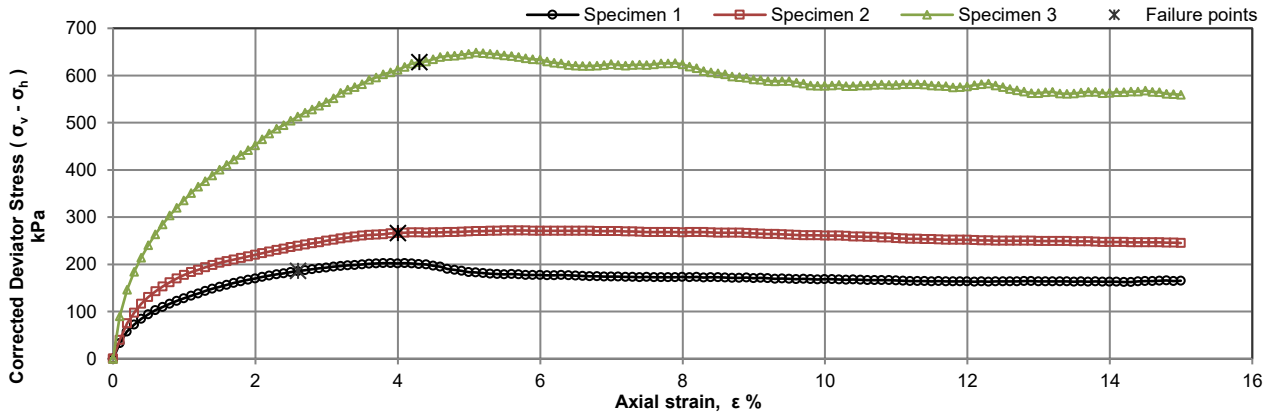
Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	10/08/2025
Contact:	Charlie Oliveira	Date Tested:	24/11/2025
Site Address:	Glebe Farm	Sampled By:	Clint - Tim Stempt

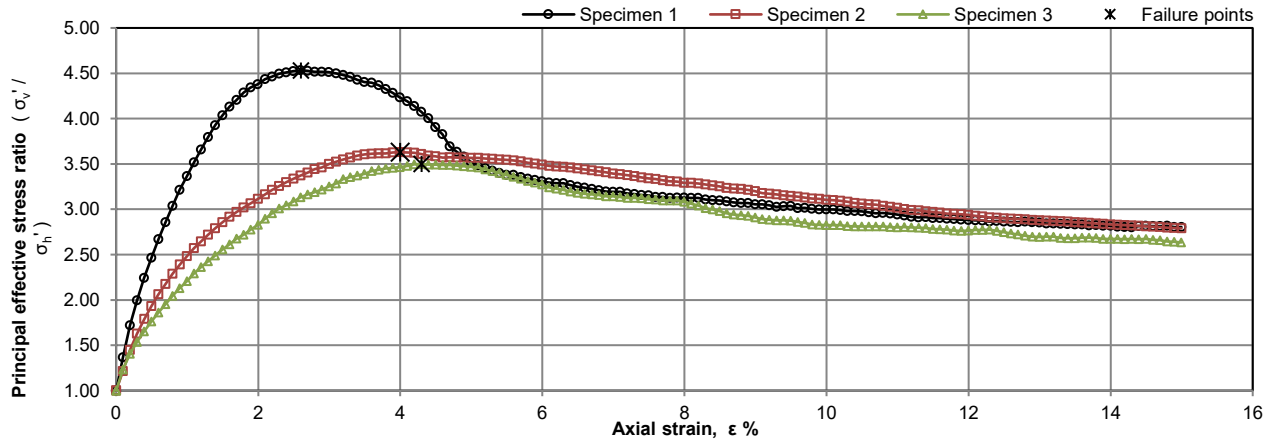
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

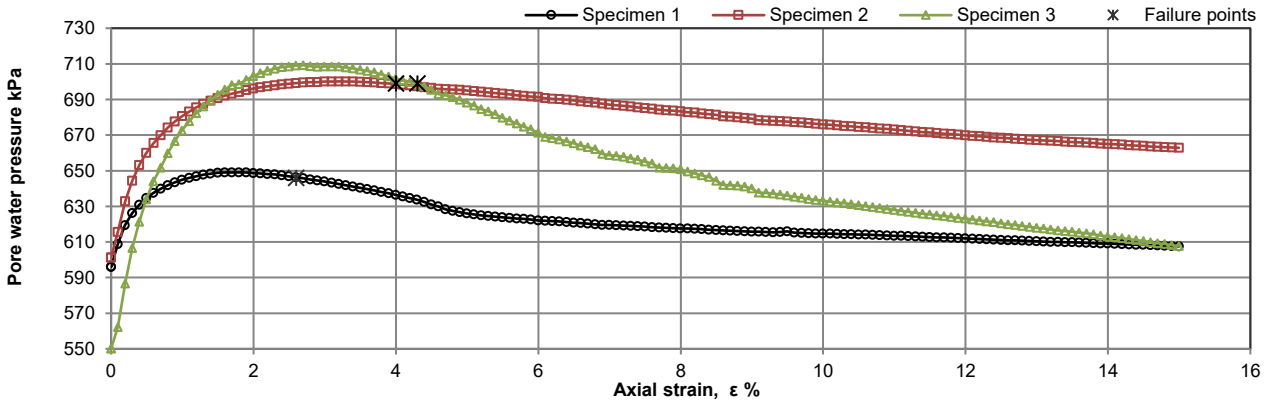
Test Results:

Laboratory Reference:	720612	Depth Top [m]:	4.50
Hole No.:	BH05	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	U
Sample Description:	Light brown silty CLAY		

Compression stages - graphical data







Remarks: Deviator stresses corrected for area change, vertical side drains and up to 0.24 mm thick rubber membrane.

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CONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION TEST WITH MEASUREMENT OF PORE WATER PRESSURE

Tested in Accordance with: BS EN ISO 17892-9:2018, BS 1377-2 Cl. 29:2022

4041

Client:	Merebrook	Client Reference:	21949AH
Client Address:	First Floor, 1 Leonard Place, Westerham Road, Keston, BR2 6HQ	Job Number:	25-056523-1
		Date Sampled:	02/10/2025
		Date Received:	10/08/2025
Contact:	Charlie Oliveira	Date Tested:	24/11/2025
Site Address:	Glebe Farm	Sampled By:	Clint - Tim Stempt

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	720612	Depth Top [m]:	4.50
Hole No.:	BH05	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	U
Sample Description:	Light brown silty CLAY		

Compression stages - table of results and interpretation

Failure criterion: Maximum deviator stress

Specimen	Cell pressure kPa	Initial pwp kPa	Initial σ_h' kPa	Rate of strain %/hr	Axial strain, ε_f %	$(\sigma_v - \sigma_h)_f$ kPa	$(\sigma_v'/\sigma_h')_f$ kPa	$\sigma_{h'f}$ kPa	$\sigma_{v'f}$ kPa	u_f kPa	A_f	Duration days
1	699	599	100	1.58	2.6	186	4.53	53	238	646	0.27	0.5
2	800	600	200	1.61	4.0	266	3.63	101	368	699	0.37	0.5
3	950	550	400	1.61	4.3	628	3.50	251	880	699	0.24	0.5

Specimen		1	2	3
Secant modulus E_{50}	MPa	N/A	N/A	N/A
Strain at E_{50}	%	N/A	N/A	N/A

Specimen		1	2	3
Membrane correction	kPa	0.90	1.45	1.56
Side drain correction	kPa	10.21	10.29	10.31

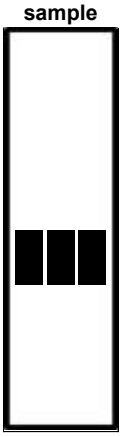
Mohr Circles



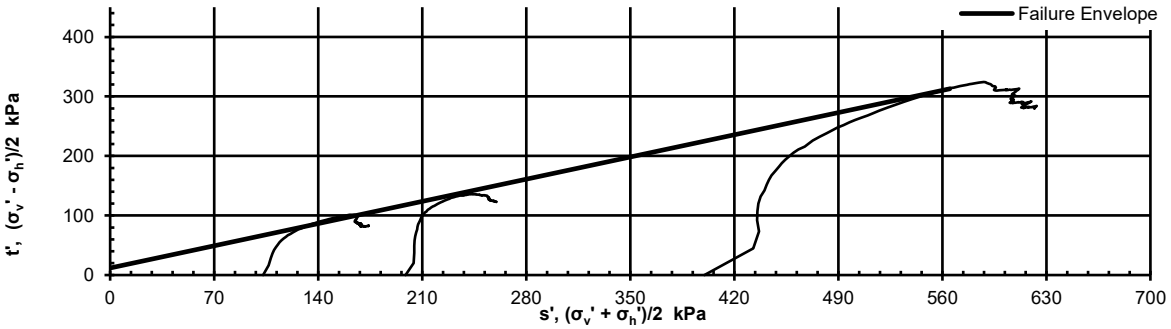
Particle density

Assumed
2.65 Mg/m^3

Position within sample



Stress Path



Shear Strength Parameters		Linear regression	Manual re-assessment
c '	kPa	14.4	-
Ø '	degrees	32.2	-

Specimen	Total duration
1	7 days
2	7 days
3	7 days

Mode of failure


Brittle


Brittle


Brittle

Remarks: Deviator stresses corrected for area change, vertical side drains and up to 0.24 mm thick rubber membrane.

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Signed:

Monika Siewior
Senior Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 12/12/2025

GF 454.9

i2 Analytical Ltd, Unit 8, Harrowden Road, Brackmills Industrial Estate, Northampton, NN4 7EB

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e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-056528

Project / Site name:	Glebe Farm	**Samples received on:**	08/10/2025
Your job number:	21949AH	**Samples instructed on/ Analysis started on:**	20/10/2025
Your order number:	25-2-FDO-LABS	**Analysis completed by:**	03/11/2025
Report Issue Number:	1	**Report issued on:**	03/11/2025
Samples Analysed:	9 soil samples		



Signed:

Rachel Chappell
Key Account Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 25-056528
Project / Site name: Glebe Farm
Your Order No: 25-2-FDO-LABS

Lab Sample Number				720711	720712	720713	720714	720715
Sample Reference				BH05	BH05	BH05	BH06	BH06
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				2.00	5.00	11.00	2.00	4.50
Date Sampled				02/10/2025	02/10/2025	02/10/2025	03/10/2025	03/10/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	12	19	19	13
Total mass of sample received	kg	0.1	NONE	1.2	0.3	1.3	1	0.4
General Inorganics								
pH (L099)	pH Units	N/A	MCERTS	8.4	8.1	7.9	8.2	8.4
Total Sulphate as SO_4	%	0.005	MCERTS	0.032	0.027	0.134	0.03	0.027
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	26	14	1300	55	16
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	12.7	7.14	674	27.4	7.77
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	1.2	1.7	18	1.7	1.3
Total Sulphur	mg/kg	50	MCERTS	160	130	4200	130	120
Total Sulphur	%	0.005	MCERTS	0.016	0.013	0.421	0.013	0.012
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Heavy Metals / Metalloids								
Magnesium (leachate equivalent)	mg/l	2.5	NONE	< 2.5	< 2.5	15	4.6	< 2.5

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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Analytical Report Number: 25-056528
Project / Site name: Glebe Farm
Your Order No: 25-2-FDO-LABS

Lab Sample Number				720716	720717	720718	720719
Sample Reference				BH06	MTP113	MTP115	MWS202
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				12.50	2.80	3.10	1.50
Date Sampled				03/10/2025	07/10/2025	07/10/2025	02/10/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	24	18	19	11
Total mass of sample received	kg	0.1	NONE	1.2	0.3	0.2	0.6
General Inorganics							
pH (L099)	pH Units	N/A	MCERTS	8	8	8.1	8.2
Total Sulphate as SO_4	%	0.005	MCERTS	0.035	0.026	0.018	0.024
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	46	23	11	35
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	23	11.4	5.56	17.6
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	3.2	1.6	1.2	1.2
Total Sulphur	mg/kg	50	MCERTS	200	190	81	110
Total Sulphur	%	0.005	MCERTS	0.02	0.019	0.008	0.011
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0
Heavy Metals / Metalloids							
Magnesium (leachate equivalent)	mg/l	2.5	NONE	3.1	2.7	2.7	< 2.5

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 25-056528
Project / Site name: Glebe Farm

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
720711	BH05	None Supplied	2	Light brown clay with gravel
720712	BH05	None Supplied	5	Light brown sandy clay with gravel
720713	BH05	None Supplied	11	Grey clay
720714	BH06	None Supplied	2	Light brown sandy clay with gravel
720715	BH06	None Supplied	4.5	Light brown sandy clay
720716	BH06	None Supplied	12.5	Light brown sandy clay
720717	MTP113	None Supplied	2.8	Brown clay and loam with gravel and vegetation
720718	MTP115	None Supplied	3.1	Brown sandy clay with gravel
720719	MWS202	None Supplied	1.5	Light brown sandy clay with gravel

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 25-056528
Project / Site name: Glebe Farm

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction	L078-PL	W	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

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Analytical Report Number : 25-056528
Project / Site name: Glebe Farm

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
BH05	N/A	S	720711	c	Chloride, water soluble, in soil	L082B	c
BH05	N/A	S	720711	c	pH in soil (automated)	L099-PL	c
BH05	N/A	S	720712	c	Chloride, water soluble, in soil	L082B	c
BH05	N/A	S	720712	c	pH in soil (automated)	L099-PL	c
BH05	N/A	S	720713	c	Chloride, water soluble, in soil	L082B	c
BH05	N/A	S	720713	c	pH in soil (automated)	L099-PL	c
BH06	N/A	S	720714	c	pH in soil (automated)	L099-PL	c
BH06	N/A	S	720715	c	pH in soil (automated)	L099-PL	c
BH06	N/A	S	720716	c	pH in soil (automated)	L099-PL	c
MTP113	N/A	S	720717	c	pH in soil (automated)	L099-PL	c
MTP115	N/A	S	720718	c	pH in soil (automated)	L099-PL	c
MWS202	N/A	S	720719	c	Chloride, water soluble, in soil	L082B	c
MWS202	N/A	S	720719	c	pH in soil (automated)	L099-PL	c

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

APPENDIX 8

- Field Monitoring Records
- Groundwater Level Data
- Hazardous Soil Gas Data

GAS MONITORING RECORD ROUND 1

MEREBROOK CONSULTING

Location Reference	Time	Flow and Pressure Measurements				Gas Measurements									VOC Measurements		Dip Measurements		Comments
		Flow		Atmospheric Pressure	Differential Pressure	Methane Max	Methane Steady	Methane LEL	Carbon Dioxide Max	Carbon Dioxide Steady	Oxygen	Carbon Monoxide	Hydrogen Sulphide	Time Taken to Reach Steady State	Hexane	PID	Depth to Water	Depth to Base	
		max	steady																
		l hr^{-1}		mb	Pa	%	%	%	%	%	%	ppm	ppm	s	%	ppm	m bgl	m bgl	
WS1	-	0	0	1022	0	0	0	-	4.5	4.5	4.5	0	0	-	-	nr	-	-	-
WS2	-	0	0	1022	0	0	0	-	1.5	1.5	16.4	0	0	-	-	nr	-	-	-
WS4	-	0	0	1022	0	0	0	-	2.8	2.8	12	0	0	-	-	nr	-	-	-
WS7	-	0	0	1022	0	0	0	-	1.5	1.5	15.9	0	0	-	-	nr	-	-	-
WS8	-	0	0	1022	0	0	0	-	1.8	1.8	16.4	0	0	-	-	nr	-	-	-
WS10	-	0	0	1022	0	0	0	-	2.3	2.3	12.5	0	0	-	-	nr	-	-	-
WS13	-	0	0	1022	0	0	0	-	1.4	1.4	17.1	0	0	-	-	nr	-	-	-
WS15	-	1.1	0	1022	4	0	0	-	2.7	2.7	11.7	0	0	-	-	nr	-	-	-
WS17	-	0	0	1022	0	0	0	-	4.3	4.3	2.6	0	0	-	-	nr	-	-	-
WS20	-	0	0	1022	0	0	0	-	0.4	0.4	20.1	0	0	-	-	nr	-	-	-
WS21	-	0	0	1022	0	0	0	-	2.3	2.3	9.5	0	0	-	-	nr	-	-	-
WS25	-	0	0	1022	0	0	0	-	2.1	2.1	14.4	0	0	-	-	nr	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Weather:	0.0	nr = not recorded	Gas Analyser	PID	Site:	0
		Model:	-	-	Project Number:	0
		Serial Number:	-	-	Monitored By:	Monitoring done by others
		Date of Last Calibration:	-	-	Date:	00/01/1900

GAS MONITORING RECORD ROUND 2

MEREBROOK CONSULTING

Location Reference	Time	Flow and Pressure Measurements				Gas Measurements									VOC Measurements		Dip Measurements		Comments
		Flow		Atmospheric Pressure	Differential Pressure	Methane Max	Methane Steady	Methane LEL	Carbon Dioxide Max	Carbon Dioxide Steady	Oxygen	Carbon Monoxide	Hydrogen Sulphide	Time Taken to Reach Steady State	Hexane	PID	Depth to Water	Depth to Base	
		max	steady																
		l hr^{-1}		mb	Pa	%	%	%	%	%	%	ppm	ppm	s	%	ppm	m	m	
WS1	-	0	0	1031	0	0	0	-	5.2	5.2	7	0	0	-	-	nr	-	-	-
WS2	-	2.1	0	1031	14	0	0	-	1.5	1.5	16.4	0	0	-	-	nr	-	-	-
WS4	-	0	0	1031	0	0	0	-	2.9	2.9	11.8	0	0	-	-	nr	-	-	-
WS7	-	0	0	1031	0	0	0	-	1.6	1.6	16.1	0	0	-	-	nr	-	-	-
WS8	-	0	0	1031	0	0	0	-	1.3	1.3	17.1	0	0	-	-	nr	-	-	-
WS10	-	0	0	1031	0	0	0	-	2	2	13	0	0	-	-	nr	-	-	-
WS13	-	0	0	1031	0	0	0	-	1.5	1.5	17	0	0	-	-	nr	-	-	-
WS15	-	0	0	1031	0	0	0	-	2.9	2.9	10.8	0	0	-	-	nr	-	-	-
WS17	-	0	0	1031	0	0	0	-	4.4	4.4	3.6	0	0	-	-	nr	-	-	-
WS20	-	0	0	1031	0	0	0	-	0.6	0.6	19.6	0	0	-	-	nr	-	-	-
WS21	-	0	0	1031	0	0	0	-	2.4	2.4	8.5	0	0	-	-	nr	-	-	-
WS25	-	0	0	1031	0	0	0	-	2	2	15.4	0	0	-	-	nr	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Weather:	0.0	nr = not recorded	Gas Analyser	PID	Site:	0
		Model:	-	-	Project Number:	0
		Serial Number:	-	-	Monitored By:	Monitoring done by others
		Date of Last Calibration:	-	-	Date:	00/01/1900

GAS MONITORING RECORD ROUND 3

MEREBROOK CONSULTING

Location Reference	Time	Flow and Pressure Measurements				Gas Measurements									VOC Measurements		Dip Measurements		Comments
		Flow		Atmospheric Pressure	Differential Pressure	Methane Max	Methane Steady	Methane LEL	Carbon Dioxide Max	Carbon Dioxide Steady	Oxygen	Carbon Monoxide	Hydrogen Sulphide	Time Taken to Reach Steady State	Hexane	PID	Depth to Water	Depth to Base	
		max	steady																
		l hr^{-1}		mb	Pa	%	%	%	%	%	%	ppm	ppm	s	%	ppm	m	m	
WS1	-	0	0	1023	0	0	0	-	5.2	-	5.5	-	nr	-	-	nr	-	-	-
WS2	-	-0.2	0	1023	-6	0	0	-	1.5	-	16.8	-	nr	-	-	nr	-	-	-
WS4	-	0	0	1023	0	0	0	-	2.9	-	12.4	-	nr	-	-	nr	-	-	-
WS7	-	0	0	1023	0	0	0	-	1.6	-	17	-	nr	-	-	nr	-	-	-
WS8	-	0	0	1023	0	0	0	-	1.6	-	17.8	-	nr	-	-	nr	-	-	-
WS10	-	0	0	1023	0	0	0	-	2.3	-	12.9	-	nr	-	-	nr	-	-	-
WS13	-	0	0	1023	0	0	0	-	1.5	-	17.5	-	nr	-	-	nr	-	-	-
WS15	-	0	0	1023	0	0	0	-	3	-	10.9	-	nr	-	-	nr	-	-	-
WS17	-	0	0	1023	0	0	0	-	4.5	-	4.5	-	nr	-	-	nr	-	-	-
WS20	-	0	0	1023	0	0	0	-	0.1	-	20.4	-	nr	-	-	nr	-	-	-
WS21	-	0	0	1023	0	0	0	-	2.5	-	8.2	-	nr	-	-	nr	-	-	-
WS25	-	0	0	1023	0	0	0	-	2.1	-	15.3	-	nr	-	-	nr	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Weather:	0.0	nr = not recorded	Gas Analyser	PID	Site:	0
		Model:	-	-	Project Number:	0
		Serial Number:	-	-	Monitored By:	Monitoring done by others
		Date of Last Calibration:	-	-	Date:	00/01/1900

GAS MONITORING RECORD ROUND 4

MEREBROOK CONSULTING

Location Reference	Time	Flow and Pressure Measurements				Gas Measurements									VOC Measurements		Dip Measurements		Comments
		Flow		Atmospheric Pressure	Differential Pressure	Methane Max	Methane Steady	Methane LEL	Carbon Dioxide Max	Carbon Dioxide Steady	Oxygen	Carbon Monoxide	Hydrogen Sulphide	Time Taken to Reach Steady State	Hexane	PID	Depth to Water	Depth to Base	
		max	steady																
		l hr^{-1}		mb	Pa	%	%	%	%	%	%	ppm	ppm	s	%	ppm	m	m	
WS1	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS2	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS4	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS7	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS8	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS10	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS13	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS15	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS17	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS20	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS21	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS25	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Weather:	0.0	nr = not recorded	Gas Analyser	PID	Site:	0
		Model:	-	-	Project Number:	0
		Serial Number:	-	-	Monitored By:	0
		Date of Last Calibration:	-	-	Date:	00/01/1900

GAS MONITORING RECORD ROUND 5

MEREBROOK CONSULTING

Location Reference	Time	Flow and Pressure Measurements				Gas Measurements									VOC Measurements		Dip Measurements		Comments
		Flow		Atmospheric Pressure	Differential Pressure	Methane Max	Methane Steady	Methane LEL	Carbon Dioxide Max	Carbon Dioxide Steady	Oxygen	Carbon Monoxide	Hydrogen Sulphide	Time Taken to Reach Steady State	Hexane	PID	Depth to Water	Depth to Base	
		max	steady																
		l hr^{-1}		mb	Pa	%	%	%	%	%	%	ppm	ppm	s	%	ppm	m	m	
WS1	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS2	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS4	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS7	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS8	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS10	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS13	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS15	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS17	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS20	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS21	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS25	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Weather:	0.0	nr = not recorded	Gas Analyser	PID	Site:	0
		Model:	-	-	Project Number:	0
		Serial Number:	-	-	Monitored By:	0
		Date of Last Calibration:	-	-	Date:	00/01/1900

GAS MONITORING RECORD ROUND 6

MEREBROOK CONSULTING

Location Reference	Time	Flow and Pressure Measurements				Gas Measurements									VOC Measurements		Dip Measurements		Comments
		Flow		Atmospheric Pressure	Differential Pressure	Methane Max	Methane Steady	Methane LEL	Carbon Dioxide Max	Carbon Dioxide Steady	Oxygen	Carbon Monoxide	Hydrogen Sulphide	Time Taken to Reach Steady State	Hexane	PID	Depth to Water	Depth to Base	
		max	steady																
		l hr^{-1}		mb	Pa	%	%	%	%	%	%	ppm	ppm	s	%	ppm	m	m	
WS1	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS2	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS4	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS7	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS8	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS10	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS13	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS15	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS17	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS20	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS21	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
WS25	-	-	-	-	-	-	-	-	-	-	-	-	nr	-	-	nr	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Weather:	0.0	nr = not recorded	Gas Analyser	PID
		Model:	-	-
		Serial Number:	-	-
		Date of Last Calibration:	-	-

Site:	0
Project Number:	0
Monitored By:	0
Date:	00/01/1900

GAS MONITORING RECORD ROUND 1

MEREBROOK CONSULTING

Location Reference	Time	Flow and Pressure Measurements				Gas Measurements									VOC Measurements		Dip Measurements		Comments
		Flow		Atmospheric Pressure	Differential Pressure	Methane Max	Methane Steady	Methane LEL	Carbon Dioxide Max	Carbon Dioxide Steady	Oxygen	Carbon Monoxide	Hydrogen Sulphide	Time Taken to Reach Steady State	Hexane	PID	Depth to Water	Depth to Base	
		max	steady																
		l hr^{-1}		mb	Pa	%	%	%	%	%	%	ppm	ppm	s	%	ppm	m bgl	m bgl	
MWS102	13:00	0	0	998	0	0	0	0	1.5	1.5	19.1	0	0	30.000	0.013	0	2.20	2.50	-
MWS103	13:10	0	0	998	0	0	0	0	0.9	0.9	19.6	0	0	30.000	0.014	0	2.45	3.75	-
MWS105	13:20	0	0	998	0	0	0	0	1.6	1.6	18.6	0	0	30.000	0.012	0	1.30	3.90	-
MWS201	13:40	0	0	998	0	0	0	0	0.8	0.8	19.1	0	0	30.000	0.012	1	2.30	3.00	-
MWS202	13:50	0	0	997	0	0	0	0	1.7	1.7	17.9	0	0	30.000	0.012	1	3.00	3.10	-
MWS203	14:00	0	0	998	0	0	0	0	0.7	0.7	19.2	0	0	30.000	0.013	0	1.50	2.00	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

GAS MONITORING RECORD ROUND 2

MEREBROOK CONSULTING

Location Reference	Time	Flow and Pressure Measurements				Gas Measurements									VOC Measurements		Dip Measurements		Comments
		Flow		Atmospheric Pressure	Differential Pressure	Methane Max	Methane Steady	Methane LEL	Carbon Dioxide Max	Carbon Dioxide Steady	Oxygen	Carbon Monoxide	Hydrogen Sulphide	Time Taken to Reach Steady State	Hexane	PID	Depth to Water	Depth to Base	
		max	steady																
		l hr^{-1}		mb	Pa	%	%	%	%	%	%	ppm	ppm	s	%	ppm	m	m	
MWS102	11:00	0	0	1002	0	0	0	0	1.4	1.4	18.6	0	0	45	0.000	nr	2.40	5.00	-
MWS103	11:15	0	0	1002	0	0	0	0	0.8	0.8	19.5	0	0	45	0.000	nr	2.96	3.00	-
MWS105	11:30	0	0	1002	0	0	0	0	0.8	0.8	19.9	0	0	45	0.000	nr	1.95	3.00	-
MWS201	11:45	0	0	1001	0	0	0	0	1.2	1.2	17.3	0	0	45	0.000	nr	2.96	3.00	-
MWS202	12:00	0	0	1000	0	0	0	0	2	2	17.1	0	0	45	0.000	nr	2.97	3.00	-
MWS203	12:15	0	0	1001	0	0	0	0	1.6	1.6	16.4	0	0	45	0.000	nr	1.96	2.00	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

GAS MONITORING RECORD ROUND 3

MEREBROOK CONSULTING

Location Reference	Time	Flow and Pressure Measurements				Gas Measurements									VOC Measurements		Dip Measurements		Comments
		Flow		Atmospheric Pressure	Differential Pressure	Methane Max	Methane Steady	Methane LEL	Carbon Dioxide Max	Carbon Dioxide Steady	Oxygen	Carbon Monoxide	Hydrogen Sulphide	Time Taken to Reach Steady State	Hexane	PID	Depth to Water	Depth to Base	
		max	steady																
		l hr^{-1}		mb	Pa	%	%	%	%	%	%	ppm	ppm	s	%	ppm	m	m	
MWS102	11:00	0	0	1003	0	0	0	0	0.9	0.9	19.7	0	0	45	0.000	0	DRY	4.00	-
MWS103	11:15	0	0	1003	0	0	0	0	0.9	0.9	19.1	0	0	45	0.000	0	DRY	4.00	-
MWS105	11:30	0	0	1003	0	0	0	0	1.3	1.3	19.2	0	0	45	0.000	0	1.40	4.00	-
MWS201	11:45	0	0	1002	0	0	0	0	1.9	1.9	14.9	0	0	45	0.000	0	2.60	3.10	-
MWS202	12:00	0	0	1002	0	0	0	0	2.2	2.2	15.3	0	0	45	0.000	0	3.10	3.10	-
MWS203	12:15	0	0	1003	0	0	0	0	1.8	1.8	14.6	0	0	45	0.000	0	1.60	2.10	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX 9 ▪ Gas Risk Assessment

MODIFIED WILSON AND CARD GAS CHARACTERISTIC SITUATION

SITE: Glebe Farm, Steyning JOB NUMBER: 21949ah 27/11/2025

Modified Wilson and Card Classification

					BS 8485:2015+A1:2019 Gas Protection Scores - refer to standard for full guidance			
					Minimum Gas Protection Score Required			
Characteristic Situation	Risk Classification	Gas Screening Value Threshold (L hr^{-1})	Additional Factors	Typical Source of Generation	Type A Building	Type B Building	Type C Building	Type D Building
1	very low risk	<0.07	typically methane not to exceed 1% and/or carbon dioxide 5% otherwise consider increase to situation 2	natural soils with low organic content; 'typical' made ground	0	0	0	0
2	low risk	0.07 to <0.7	borehole air flow rate not to exceed 70 L hr^{-1} otherwise consider increase to situation 3	natural soils with high peat/organic content; 'typical' made ground	3.5	3.5	2.5	1.5
3	moderate risk	0.7 to <3.5		old landfill, inert waste, mineworking flooded	4.5	4	3	2.5
4	moderate to high risk	3.5 to <15	quantitative risk assessment required to evaluate scope of protective measures	mineworking susceptible to flooding, completed landfill	6.5 A)	5.5 A)	4.5	3.5
5	high risk	15 to <70		mineworking unflooded inactive with shallow workings near surface	hazard too high for this method to define protection measures	6 A)	5.5	4.5
6	very high risk	>70		recent landfill site	hazard too high for this method to define protection measures	hazard too high for this method to define protection measures	hazard too high for this method to define protection measures	6

BS 8485:2015+A1:2019 Gas Protection Measures - refer to standard for full guidance

Select two or more elements from the following three types of protection to achieve score (only one element per type permitted)

Structural Barrier	Score A)	Ventilation Measures		Score	Gas Resistant Membrane	Score
Precast suspended segmental subfloor (i.e. beam and block)	0	Pressure relief pathway (usually formed of low fines gravel or with a thin geocomposite blanket or strips terminating in a gravel trench external to the building)		0.5	Gas resistant membrane meeting all of the following criteria: 1. sufficiently impervious, both in the sheet material and in the sealing of sheets and sealing around sheet penetrations, to prevent any significant passage of methane and/or carbon dioxide through the membrane. *A membrane with a methane gas transmission rate <40.0 ml/day/m2/atm (average) for sheets and joints (tested in accordance with BS ISO 15105-1:2007 manometric method) is regarded as sufficiently impervious.* 2. sufficiently durable to remain serviceable for the anticipated life of the building and duration of gas emissions 3. sufficiently strong* to withstand the installation process and following trades until covered (e.g. penetration from steel fibres in fibre reinforced concrete, penetration of reinforcement ties, tearing due to working above it, dropping tools, etc) and to withstand in-service stresses (e.g. settlement if placed below a floor slab) 5. capable, after installation, of providing a complete barrier to the entry of the relevant gas 6. verified in accordance with CIRIA C735 * For example, reinforced LDPE (virgin polymer) membranes having a minimum mass per unit area of 370 g/m2 and not significantly less than 0.4 mm thickness between the reinforcement scrim (tested in accordance with Procedure D (2 mm diameter tip) of BS EN ISO 9863-1:2016) installed above floor slabs are considered sufficiently strong to meet the performance criteria (see also C.3). Thicker and more robust membranes or an additional membrane protection layer should be installed directly beneath cast-in-situ floor slabs	2
Cast in situ ground-bearing floor slab (with only nominal mesh reinforcement)	0.5	Passive sub floor dispersal layer	Very good performance E)	2.5		
			Good performance E)	1.5		
Cast in situ monolithic reinforced ground bearing raft or reinforced cast in situ suspended floor slab with minimal penetrations	1 or 1.5 B)	Active dispersal layer, usually comprising fans with active abstraction (suction) from a subfloor dilution layer, with roof level vents. The dilution layer may comprise a clear void or be formed of geocomposite or polystyrene void formers E)		1.5 to 2.5		
Basement floor and walls conforming to BS 8102:2009, Grade 2 waterproofing C) D)	2	Active positive pressurization by the creation of a blanket of external fresh air beneath the building floor slab by pumps supplying air to points across the central footprint of the building into a permeable layer, usually formed of a thin geocomposite blanket E)		1.5 to 2.5		
Basement floor and walls conforming to BS 8102:2009, Grade 3 waterproofing C) D)	2.5	Ventilated car park (floor slab of occupied part of the building under consideration is underlain by a basement or undercroft car park) F)		4		

Notes

A) The scores are conditional on breaches of floor slabs, etc., being effectively sealed

B) To achieve a score of 1.5 the raft or suspended slab should be well reinforced to control cracking and have minimal penetrations cast in

C) The score is conditional on the waterproofing being provided by a suitable structural barrier with the design and detailing of the walls and floor meeting the requirements for Type B protection. The score cannot be assigned for Type A (waterproof membrane) or Type C (drained cavity wall).

D) If a membrane is installed beneath and around the basement to provide Type A waterproofing (BS 8102:2009), it can be assigned a gas protection score in accordance with Table 7, if it meets all the criteria for a gas resistant membrane in that table

E) Refer to BS 8485:2015 Annex B to determine performance and assign score

F) Assumes that the car park is vented to deal with car exhaust fumes, designed to Buildings Regulations 2000, Approved Document F

Building Types

Type A

Private ownership with no building management controls on alterations to the internal structure, the use of rooms, the ventilation of rooms or the structural fabric of the building. Some small rooms present. Probably conventional building construction (rather than civil engineering). Examples include private housing and some retail premises.

FOR TYPE A BUILDINGS ACTIVE VENTILATION MEASURES ARE INAPPROPRIATE

Type B

Private or commercial property with central building management control of any alterations to the building or its uses but limited or no central building management control of the maintenance of the building, including the gas protection measures. Multiple occupancy. Small to medium size rooms with passive ventilation of rooms and other internal spaces throughout ground floor and basement areas. May be conventional building or civil engineering construction. Examples include managed apartments, multiple occupancy offices, some retail premises and parts of some public buildings (such as schools, hospitals, leisure centres) and parts of hotels.

Type C

Commercial building with central building management control of any alterations to the building or its uses and central building management control of the maintenance of the building, including the gas protection measures. Single occupancy of ground floor and basement areas. Small to large size rooms with active ventilation or good passive ventilation of all rooms and other internal spaces throughout ground floor and basement areas. Probably civil engineering construction. Examples include offices, some retail premises, and parts of some public buildings (such as schools, hospitals, leisure centres and parts of hotels).

Type D

Industrial style building having large volume internal space(s) that are well ventilated. Corporate ownership with building management controls on alterations to the ground floor and basement areas of the building and on maintenance of ground gas protective measures. Probably civil engineering construction. Examples are retail park sales buildings, factory shop floor areas, warehouses. (Small rooms within these style buildings should be separately categorized as Type B or Type C).



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