

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018,
Clause 5.3.14 and 5.5, Fall Cone Method, 1 Point Test

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

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Contact: Nigel Ramsumair
Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: MAN 1668 019
Job Number: 21-16487
Date Sampled: 01/11/2021
Date Received: 12/10/2021
Date Tested: 26/10/2021
Sampled By: Not Given

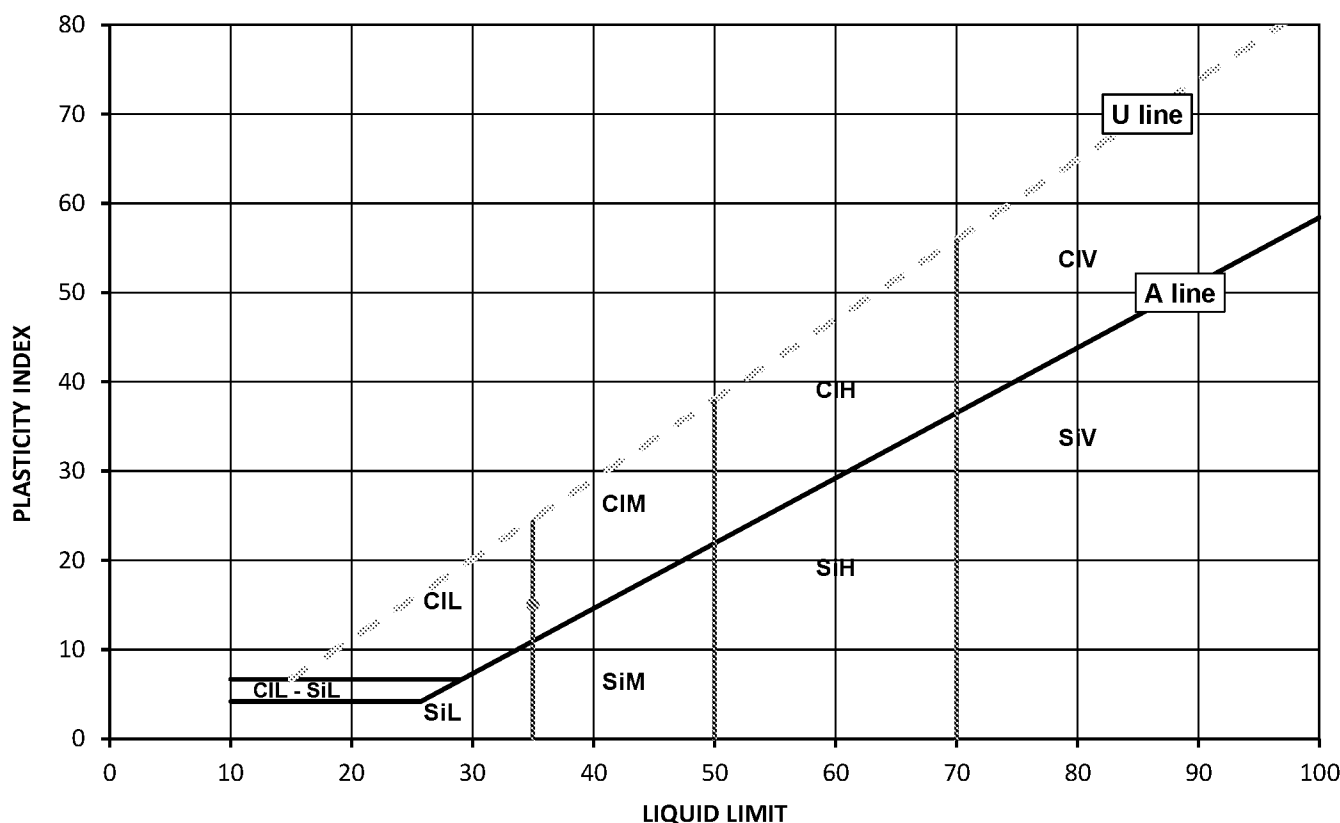
Test Results:

Laboratory Reference: 2047617
Hole No.: S6
Sample Reference: Not Given
Sample Description: Greyish brown slightly gravelly slightly sandy CLAY

Depth Top [m]: 0.50
Depth Base [m]: Not Given
Sample Type: B

Sample Preparation: Tested after washing to remove >0.425mm;
Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
20.5	35	1.015	20	15	94



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

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

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Remarks:

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Appendix 2 - Laboratory Testing Result



TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
Tested in Accordance with: BS EN ISO 17892-12:2018,
Clause 5.3.14 and 5.5, Fall Cone Method, 1 Point Test

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



Environmental Science

4041

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019
Job Number: 21-16487
Date Sampled: 01/11/2021
Date Received: 12/10/2021
Date Tested: 26/10/2021
Sampled By: Not Given

Contact: Nigel Ramsumair
Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

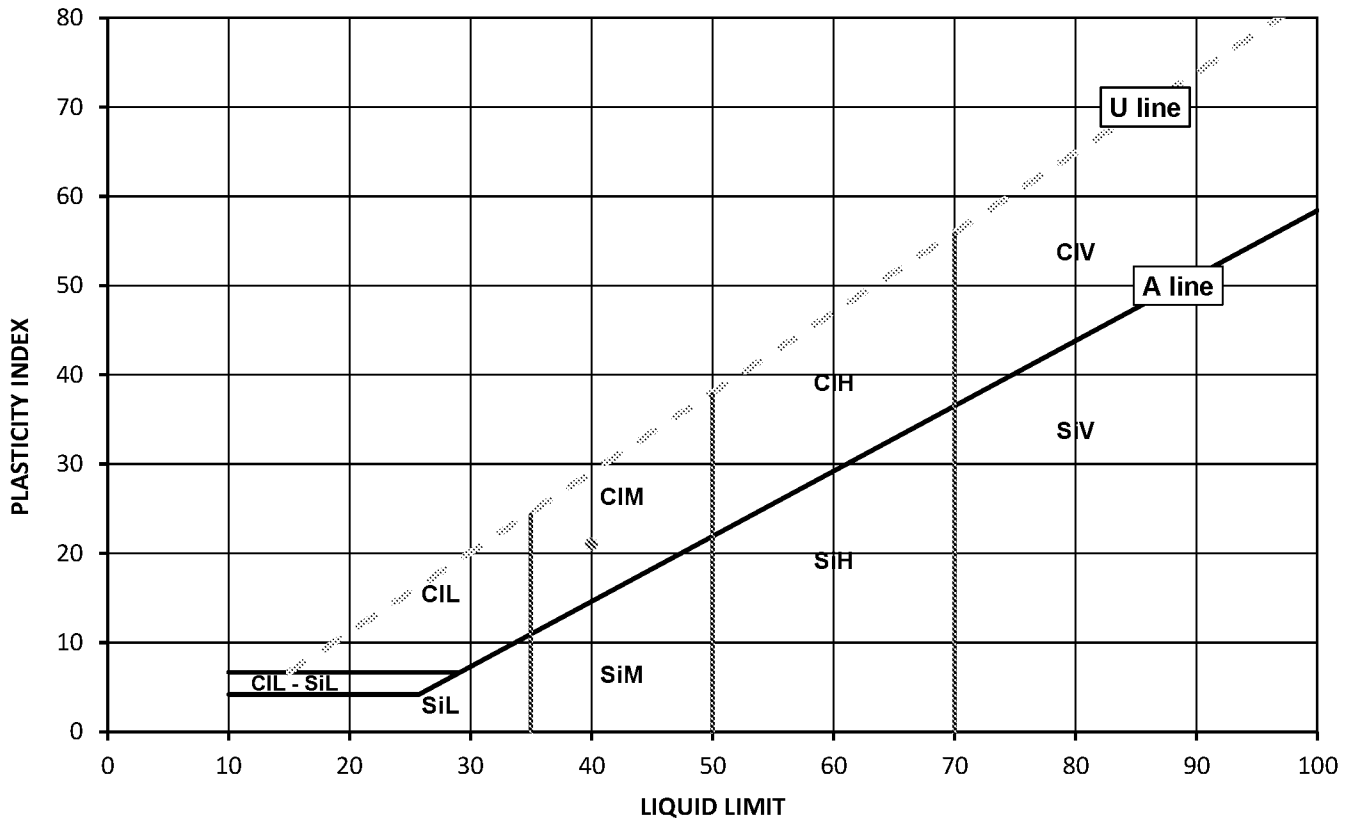
Test Results:

Laboratory Reference: 2047612
Hole No.: S1
Sample Reference: Not Given
Sample Description: Greyish brown slightly gravelly sandy CLAY

Depth Top [m]: 0.50
Depth Base [m]: Not Given
Sample Type: B

Sample Preparation: Tested after washing to remove >0.425mm;
Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
23.8	40	1.000	19	21	98



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

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

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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Contact: Nigel Ramsumair
Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: MAN 1668 019
Job Number: 21-16487
Date Sampled: 01/11/2021
Date Received: 12/10/2021
Date Tested: 26/10/2021
Sampled By: Not Given

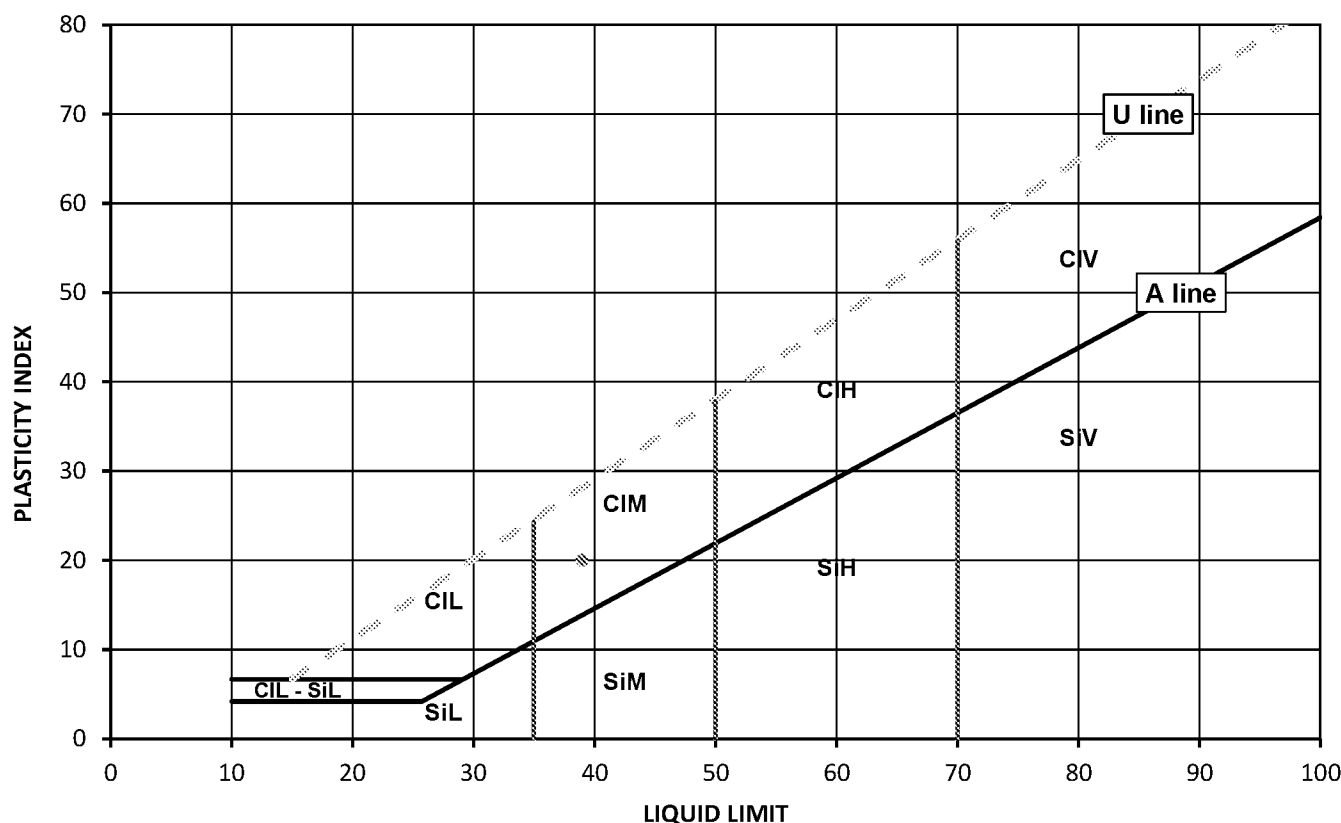
Test Results:

Laboratory Reference: 2047613
Hole No.: S2
Sample Reference: Not Given
Sample Description: Greyish brown slightly gravelly sandy CLAY

Depth Top [m]: 0.50
Depth Base [m]: Not Given
Sample Type: B

Sample Preparation: Tested after washing to remove >0.425mm;
Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
25.5	39	1.020	19	20	93



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

	Plasticity	Liquid Limit
CI 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 CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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Client: Enzygo Geoenvironmental Ltd
 Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019
 Job Number: 21-16487
 Date Sampled: 01/11/2021
 Date Received: 12/10/2021
 Date Tested: 26/10/2021
 Sampled By: Not Given

Contact: Nigel Ramsumair
 Site Address: Hook Lane

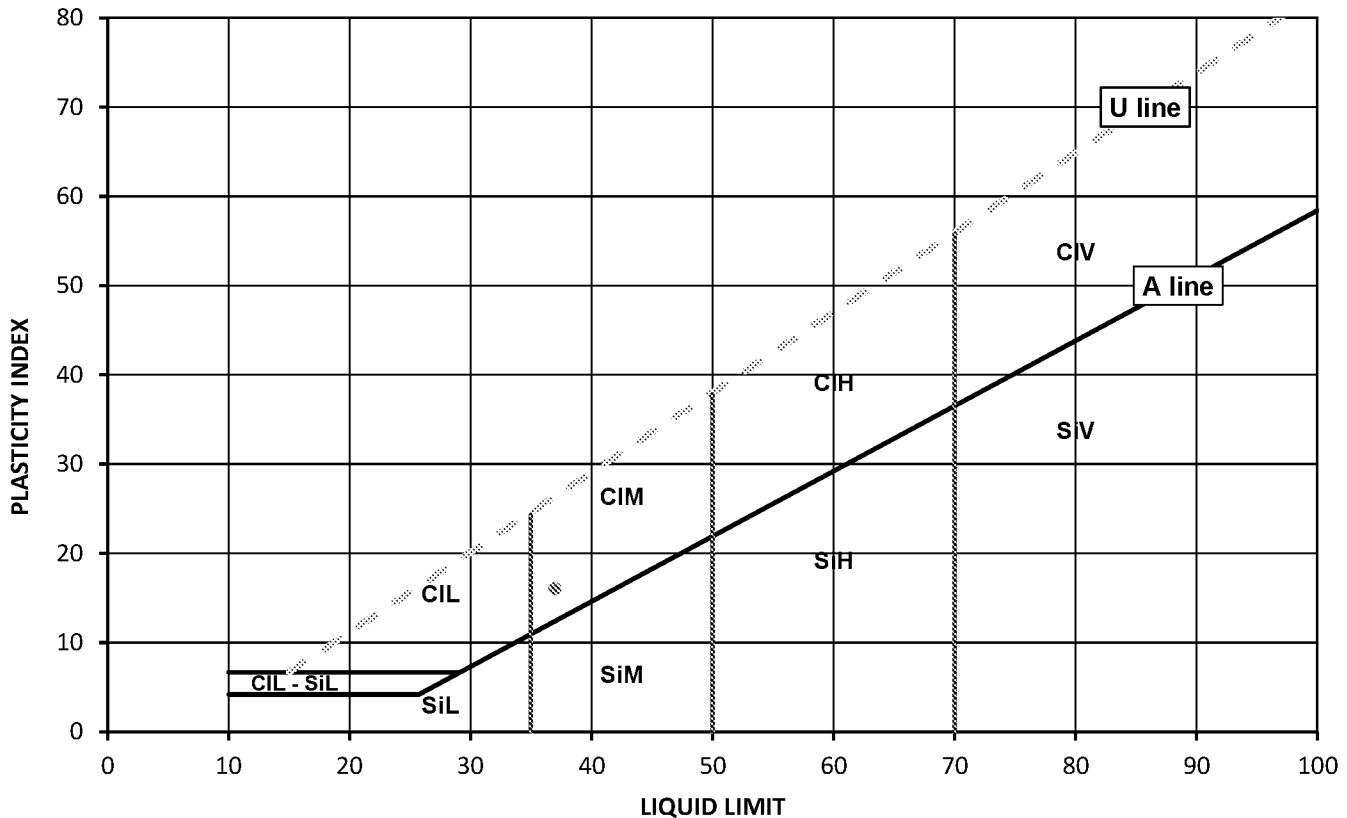
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2047614
 Hole No.: S3
 Sample Reference: Not Given
 Sample Description: Greyish brown gravelly sandy CLAY
 Sample Preparation: Tested after washing to remove >0.425mm;
 Cone Type: 80g/30deg

Depth Top [m]: 0.50
 Depth Base [m]: Not Given
 Sample Type: B

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
20.6	37	1.003	21	16	96



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

	Plasticity	Liquid Limit
CI 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 CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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Page 1 of 1

Date Reported: 02/11/2021

GF 360.9

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018,
Clause 5.3.14 and 5.5, Fall Cone Method, 1 Point Test

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

Client: Enzygo Geoenvironmental Ltd
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Contact: Nigel Ramsumair
Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 26/10/2021

Sampled By: Not Given

Test Results:

Laboratory Reference: 2047615

Hole No.: S4

Sample Reference: Not Given

Sample Description: Brown sandy CLAY

Depth Top [m]: 0.50

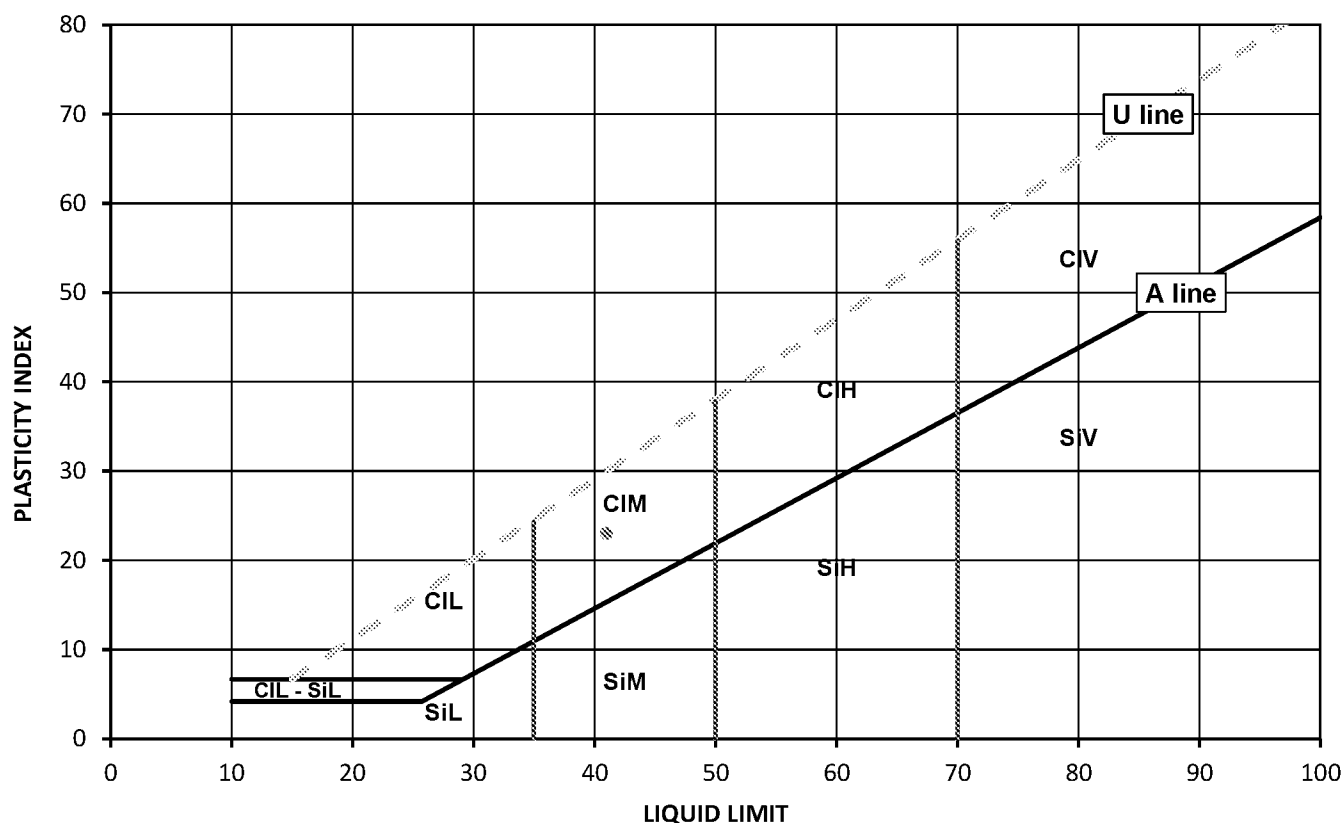
Depth Base [m]: Not Given

Sample Type: B

Sample Preparation: Tested in natural condition;

Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
24.2	41	1.019	18	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 CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019

Contact: Nigel Ramsumair
Site Address: Hook Lane

Job Number: 21-16487
Date Sampled: 01/11/2021
Date Received: 12/10/2021
Date Tested: 26/10/2021
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

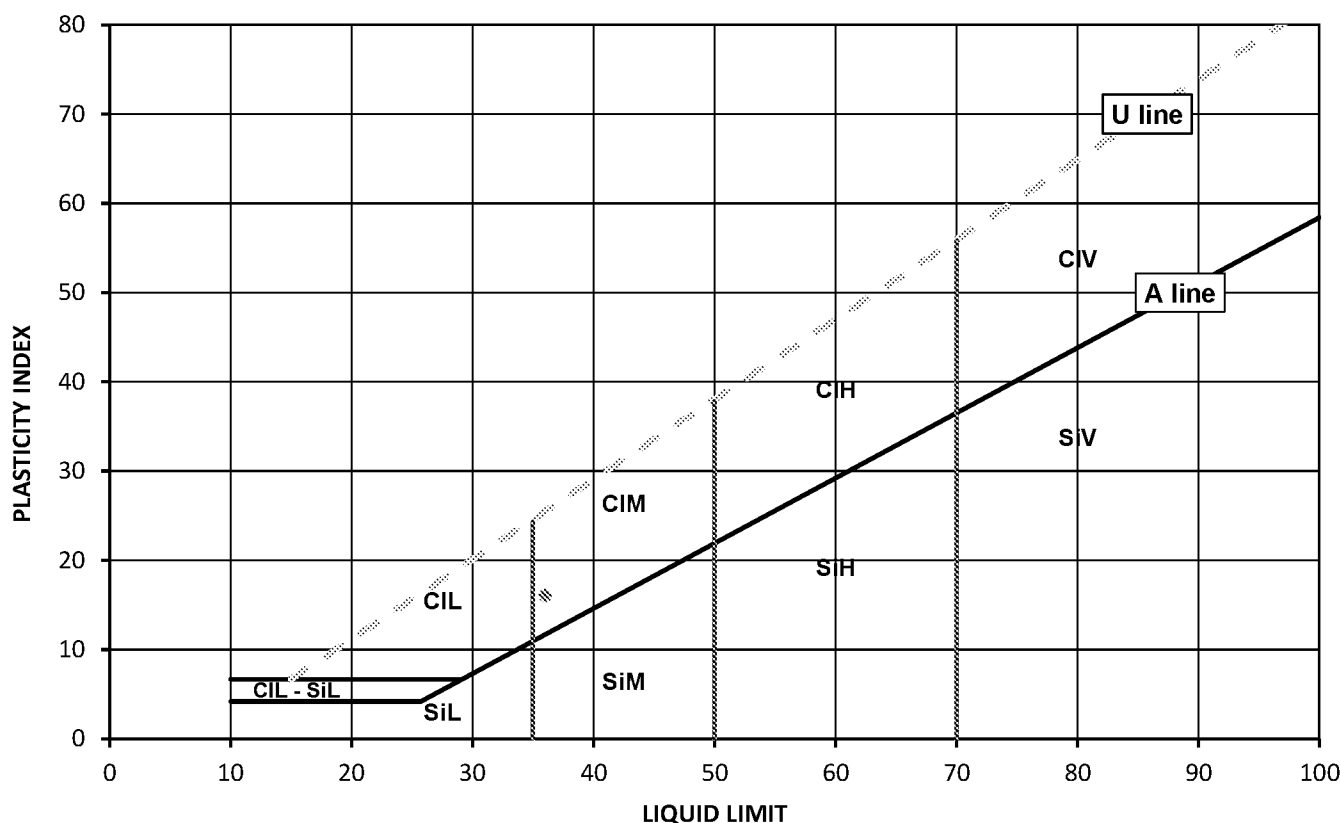
Test Results:

Laboratory Reference: 2047616
Hole No.: S5
Sample Reference: Not Given
Sample Description: Greyish brown slightly gravelly slightly sandy CLAY

Depth Top [m]: 0.50
Depth Base [m]: Not Given
Sample Type: B

Sample Preparation: Tested after washing to remove >0.425mm;
Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
19.0	36	1.002	20	16	95



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

	Plasticity	Liquid Limit
CI 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 CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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Clause 5.3.14 and 5.5, Fall Cone Method, 1 Point Test

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Brackmills Industrial Estate
Northampton NN4 7EB

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Contact: Nigel Ramsumair
Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: MAN 1668 019
Job Number: 21-16487
Date Sampled: 01/11/2021
Date Received: 12/10/2021
Date Tested: 26/10/2021
Sampled By: Not Given

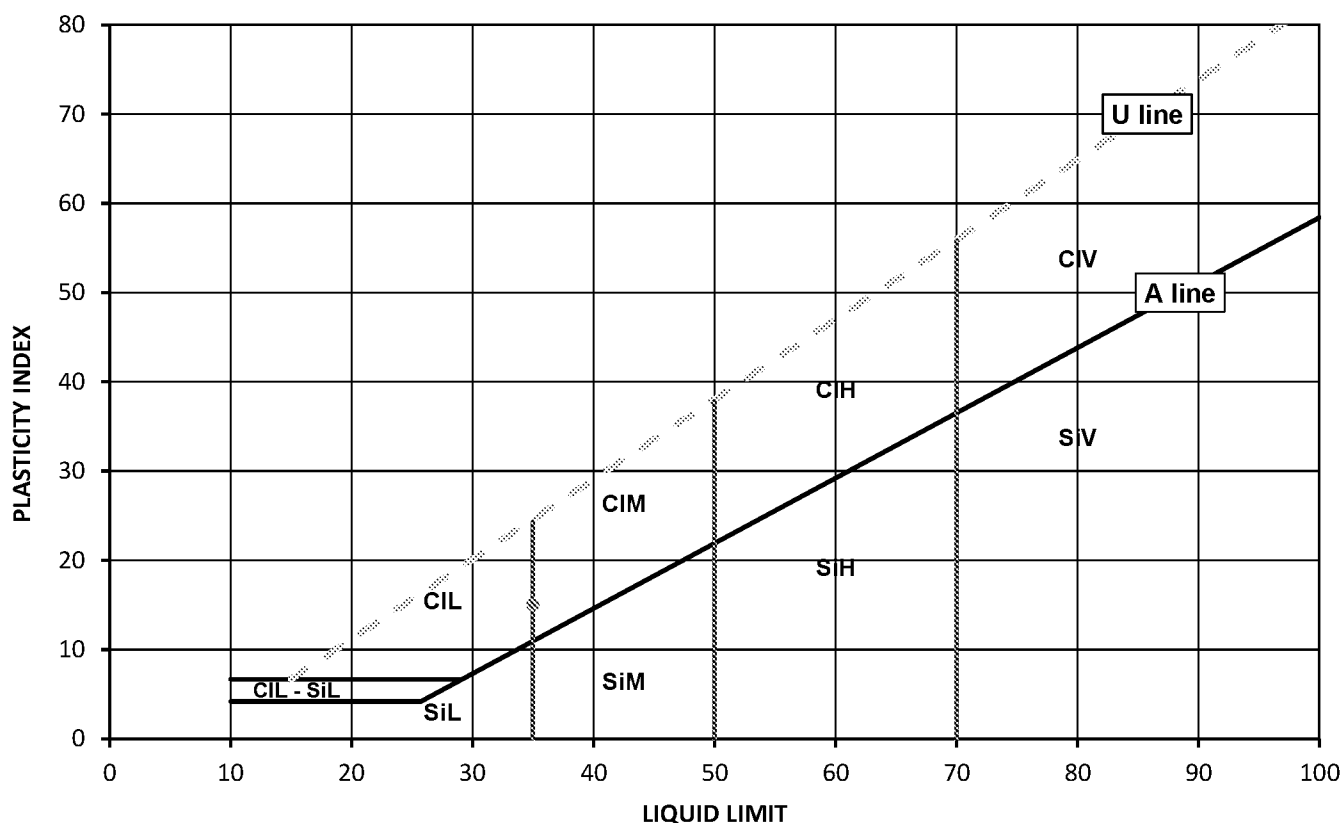
Test Results:

Laboratory Reference: 2047618
Hole No.: S7
Sample Reference: Not Given
Sample Description: Greyish brown slightly gravelly sandy CLAY

Depth Top [m]: 0.50
Depth Base [m]: Not Given
Sample Type: B

Sample Preparation: Tested after washing to remove >0.425mm;
Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
12.1	35	1.015	20	15	92



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

	Plasticity	Liquid Limit
CI 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 CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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TEST CERTIFICATE**DETERMINATION OF LIQUID AND PLASTIC LIMITS**Tested in Accordance with: BS EN ISO 17892-12:2018,
Clause 5.3.14 and 5.5, Fall Cone Method, 1 Point Testi2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JWContact: Nigel Ramsumair
Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 26/10/2021

Sampled By: Not Given

Test Results:

Laboratory Reference: 2047619

Hole No.: S8

Sample Reference: Not Given

Sample Description: Grey slightly gravelly sandy CLAY

Depth Top [m]: 0.50

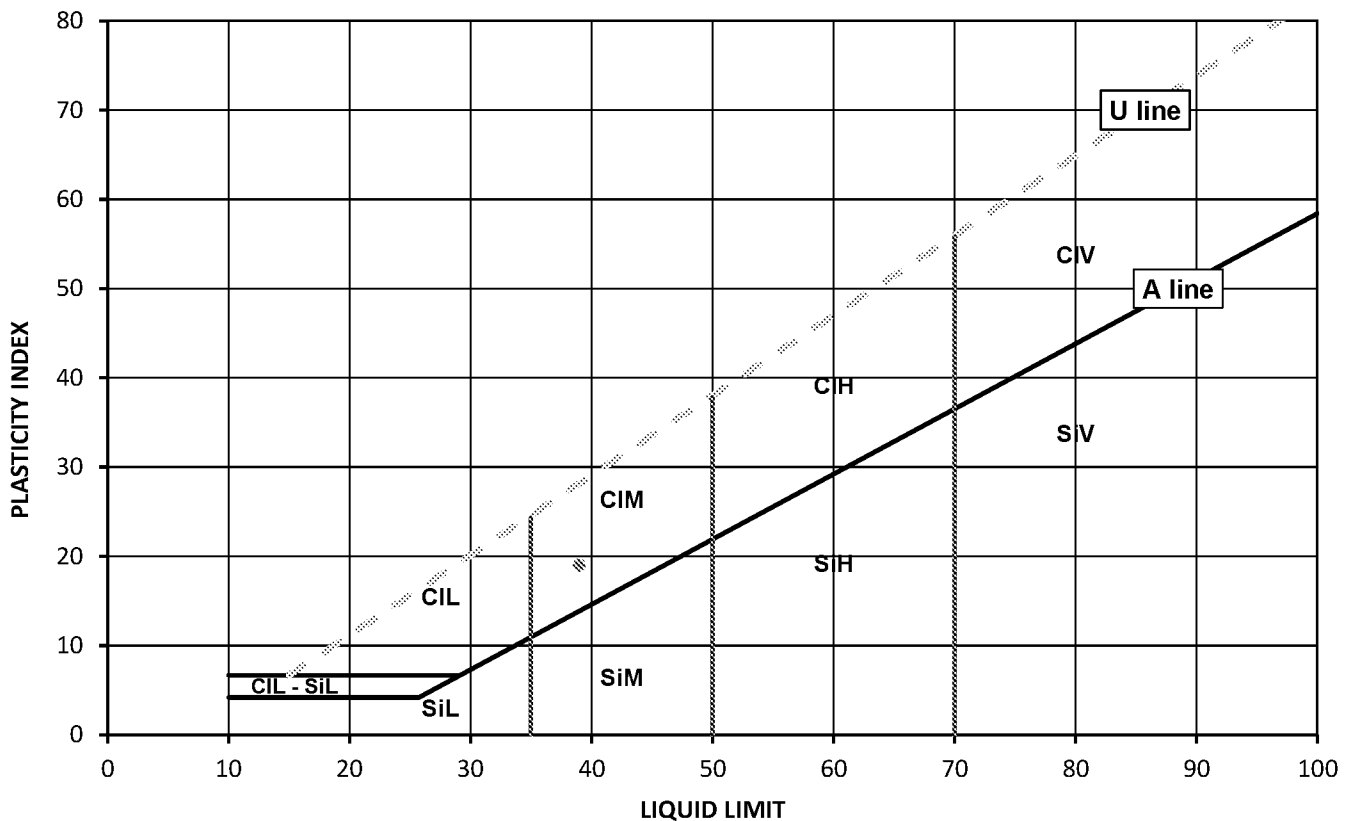
Depth Base [m]: Not Given

Sample Type: B

Sample Preparation: Tested after washing to remove >0.425mm;

Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
16.5	39	1.000	20	19	95



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

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

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 26/10/2021

Sampled By: Not Given

Test Results:

Laboratory Reference: 2047620

Hole No.: S9

Sample Reference: Not Given

Sample Description: Greyish brown slightly gravelly sandy CLAY

Depth Top [m]: 0.50

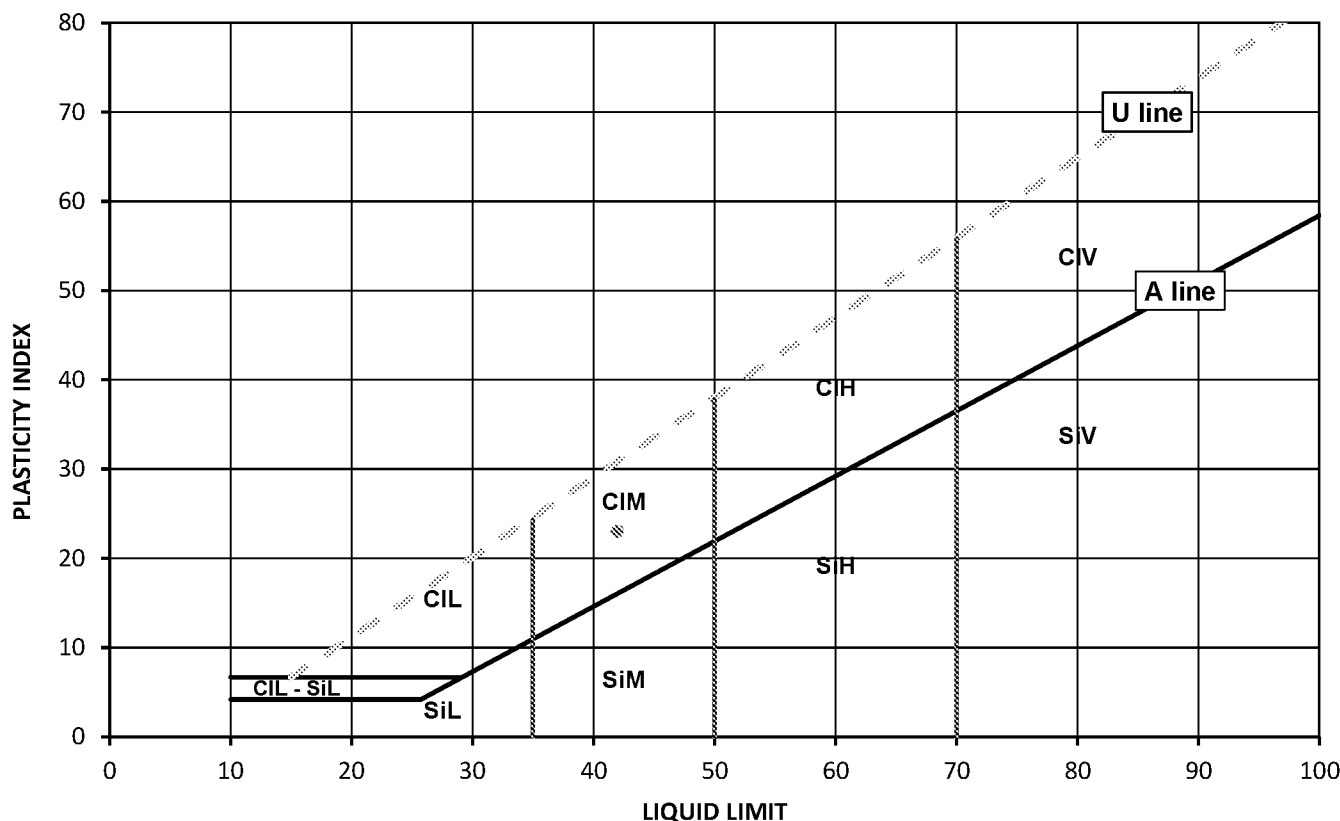
Depth Base [m]: Not Given

Sample Type: B

Sample Preparation: Tested after washing to remove >0.425mm;

Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
17.3	42	1.019	19	23	95



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

	Plasticity	Liquid Limit
CI 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 CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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Client Reference: MAN 1668 019
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Date Tested: 26/10/2021
Sampled By: Not Given

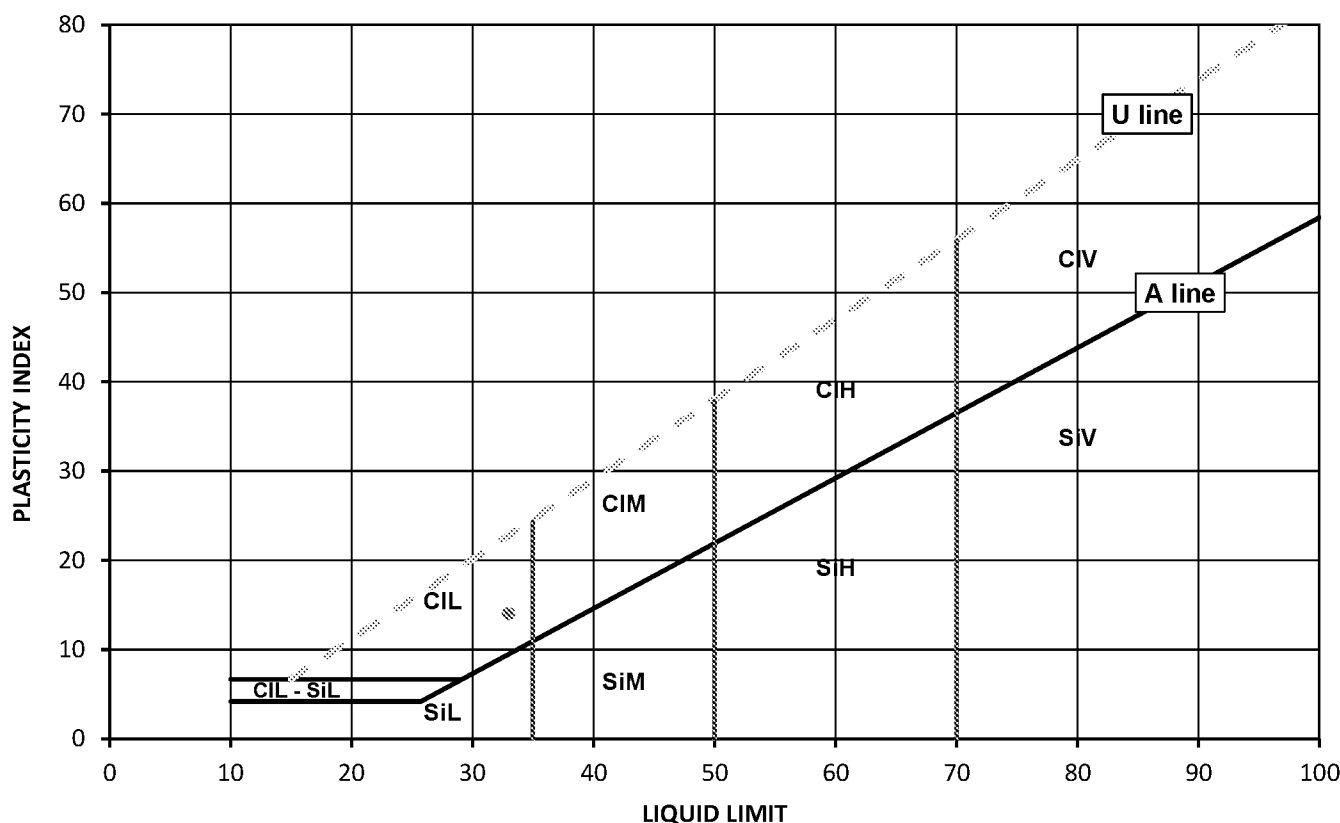
Test Results:

Laboratory Reference: 2047621
Hole No.: S10
Sample Reference: Not Given
Sample Description: Greyish brown slightly gravelly sandy CLAY

Depth Top [m]: 0.50
Depth Base [m]: Not Given
Sample Type: B

Sample Preparation: Tested after washing to remove >0.425mm;
Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
14.7	33	1.000	19	14	93



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

	Plasticity	Liquid Limit
CI 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 CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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Date Tested: 26/10/2021
Sampled By: Not Given

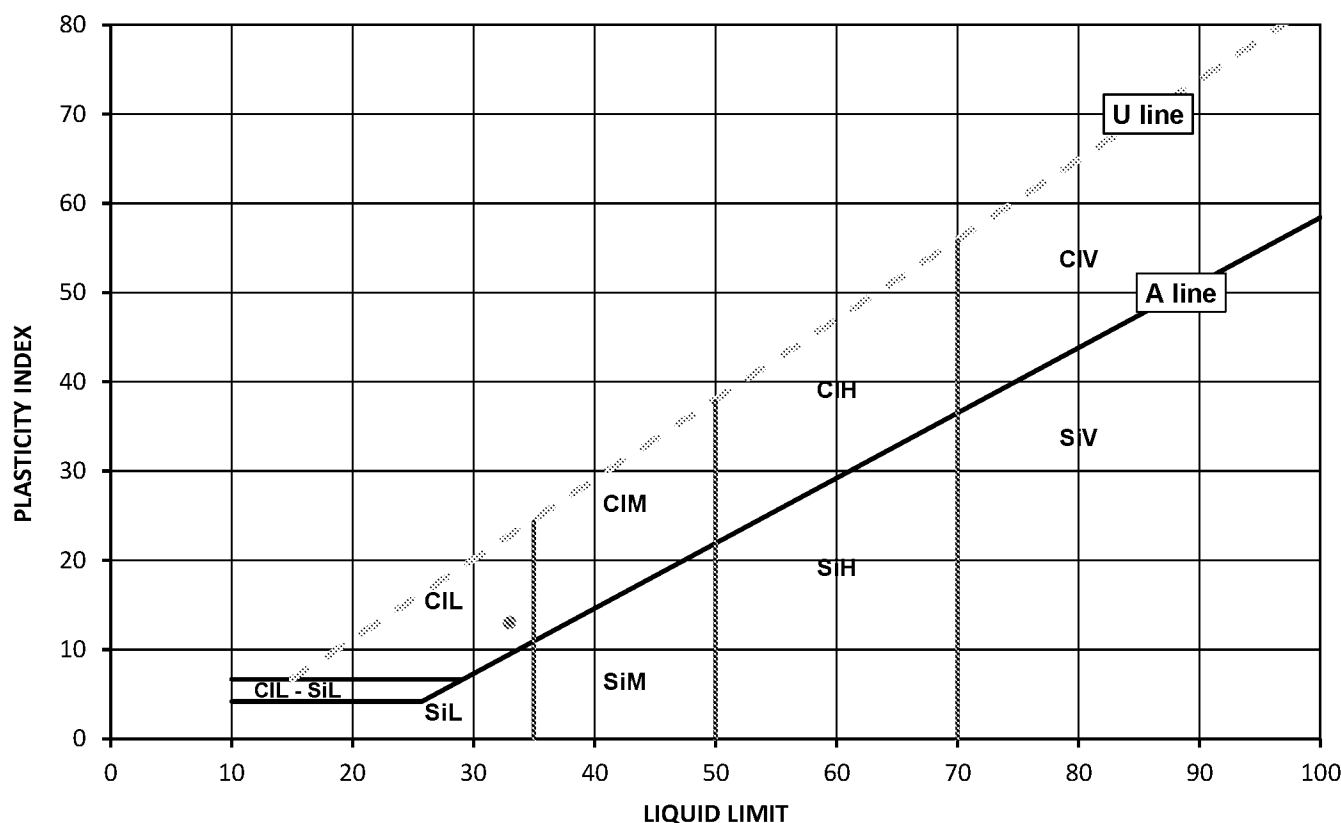
Test Results:

Laboratory Reference: 2047622
Hole No.: S11
Sample Reference: Not Given
Sample Description: Greyish brown slightly gravelly sandy CLAY

Depth Top [m]: 0.50
Depth Base [m]: Not Given
Sample Type: B

Sample Preparation: Tested after washing to remove >0.425mm;
Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
13.5	33	1.000	20	13	92



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

	Plasticity	Liquid Limit
CI 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 CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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4041

Client: Enzygo Geoenvironmental Ltd

Client Address: Ducie House, Ducie Street,, M1 2JW

Contact: Nigel Ramsumair

Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

W by BS EN 17892-1: 2014; Liquid and Plastic Limit by BS EN ISO 17892-12:
2018: Clause 5.3 (4 Point Test), Clause 5.3.14 (1 Point Test) and 5.5;
Correlation Factor by Clayton C.R.I and Jukes A.W (1978); PD by BS 1377-2:
1990: Clause 8.2

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



Environmental Science

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 26/10-27/10/2021

Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit								Density		
		Reference	Depth Top	Depth Base	Type				% Passing 425um	WL *	Correlation Factor	Wp	Ip	Cone type	Sample Preparation	bulk	dry	PD	
			m	m					%	%		%	%			Mg/m3	Mg/m3	Mg/m3	
2047612	S1	Not Given	0.50	Not Given	B	Greyish brown slightly gravelly sandy CLAY	Atterberg 1 Point	23.8	98	40	1.000	19	21	80g/30 deg	N/A				
2047621	S10	Not Given	0.50	Not Given	B	Greyish brown slightly gravelly sandy CLAY	Atterberg 1 Point	14.7	93	33	1.000	19	14	80g/30 deg	N/A				
2047622	S11	Not Given	0.50	Not Given	B	Greyish brown slightly gravelly sandy CLAY	Atterberg 1 Point	13.5	92	33	1.000	20	13	80g/30 deg	N/A				
2047613	S2	Not Given	0.50	Not Given	B	Greyish brown slightly gravelly sandy CLAY	Atterberg 1 Point	25.5	93	39	1.020	19	20	80g/30 deg	N/A				
2047614	S3	Not Given	0.50	Not Given	B	Greyish brown gravelly sandy CLAY	Atterberg 1 Point	20.6	96	37	1.003	21	16	80g/30 deg	N/A				
2047615	S4	Not Given	0.50	Not Given	B	Brown sandy CLAY	Atterberg 1 Point	24.2	100	41	1.019	18	23	80g/30 deg	N/A				
2047616	S5	Not Given	0.50	Not Given	B	Greyish brown slightly gravelly slightly sandy CLAY	Atterberg 1 Point	19.0	95	36	1.002	20	16	80g/30 deg	N/A				
2047617	S6	Not Given	0.50	Not Given	B	Greyish brown slightly gravelly slightly sandy CLAY	Atterberg 1 Point	20.5	94	35	1.015	20	15	80g/30 deg	N/A				
2047618	S7	Not Given	0.50	Not Given	B	Greyish brown slightly gravelly sandy CLAY	Atterberg 1 Point	12.1	92	35	1.015	20	15	80g/30 deg	N/A				
2047619	S8	Not Given	0.50	Not Given	B	Grey slightly gravelly sandy CLAY	Atterberg 1 Point	16.5	95	39	1.000	20	19	80g/30 deg	N/A				

Note: # Non accredited; NP - Non plastic; 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
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

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



Environmental Science

4041

Client: Enzygo Geoenvironmental Ltd

Client Address: Ducie House, Ducie Street,, M1 2JW

Contact: Nigel Ramsumair

Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

W by BS EN 17892-1: 2014; Liquid and Plastic Limit by BS EN ISO 17892-12:
2018: Clause 5.3 (4 Point Test), Clause 5.3.14 (1 Point Test) and 5.5;
Correlation Factor by Clayton C.R.I and Jukes A.W (1978); PD by BS 1377-2:
1990: Clause 8.2

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 26/10-27/10/2021

Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top	Depth Base	Type				% Passing 425um	WL*	Correlation Factor	Wp	Ip	Cone type	Sample Preparation	bulk	dry	PD
			m	m					%	%		%	%			80g/30 deg	N/A	Mg/m3
2047620	S9	Not Given	0.50	Not Given	B	Greyish brown slightly gravelly sandy CLAY	Atterberg 1 Point	17.3	95	42	1.019	19	23	80g/30 deg	N/A			

Note: # Non accredited; NP - Non plastic; 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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Signed:



Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd



TEST CERTIFICATE

Particle Size Distribution

Tested in Accordance with: BS EN ISO 17892-4:2016

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



Environmental Science

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019
Job Number: 21-16487
Date Sampled: 01/11/2021
Date Received: 12/10/2021
Date Tested: 26/10/2021
Sampled By: Not Given

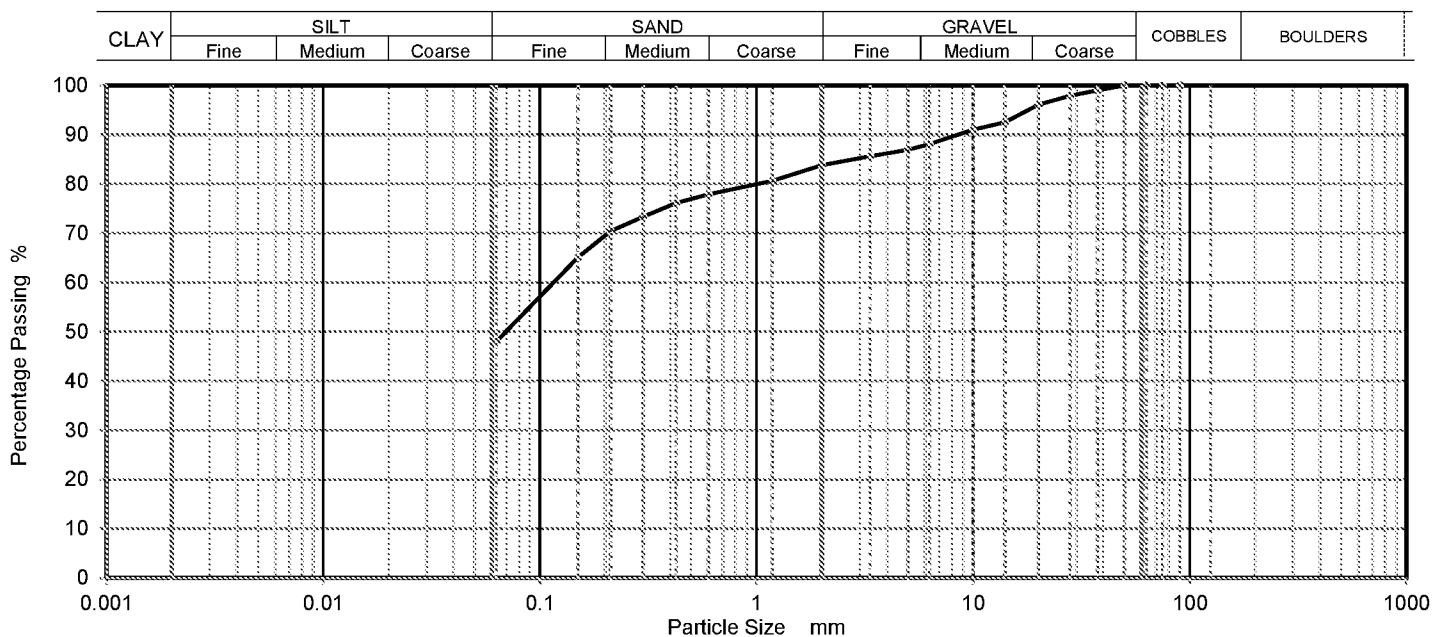
Contact: Nigel Ramsumair
Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2047605
Hole No.: TP114
Sample Reference: Not Given
Sample Description: Light grey gravelly very sandy CLAY with fragments of chalk

Depth Top [m]: 2.20
Depth Base [m]: Not Given
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	99		
28	98		
20	96		
14	93		
10	91		
6.3	88		
5	87		
3.35	86		
2	84		
1.18	81		
0.6	78		
0.425	76		
0.3	73		
0.212	70		
0.15	65		
0.063	49		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	16.00
Sand	35.00
Fines <0.063mm	49.00

Grading Analysis		
D100	mm	50
D60	mm	0.115
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks:

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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4041

TEST CERTIFICATE**Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:
BS 1377-4: 1990i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 29/10/2021

Sampled By: Not Given

Contact: Nigel Ramsumair

Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2047601

Hole No.: TP112

Sample Reference: Not Given

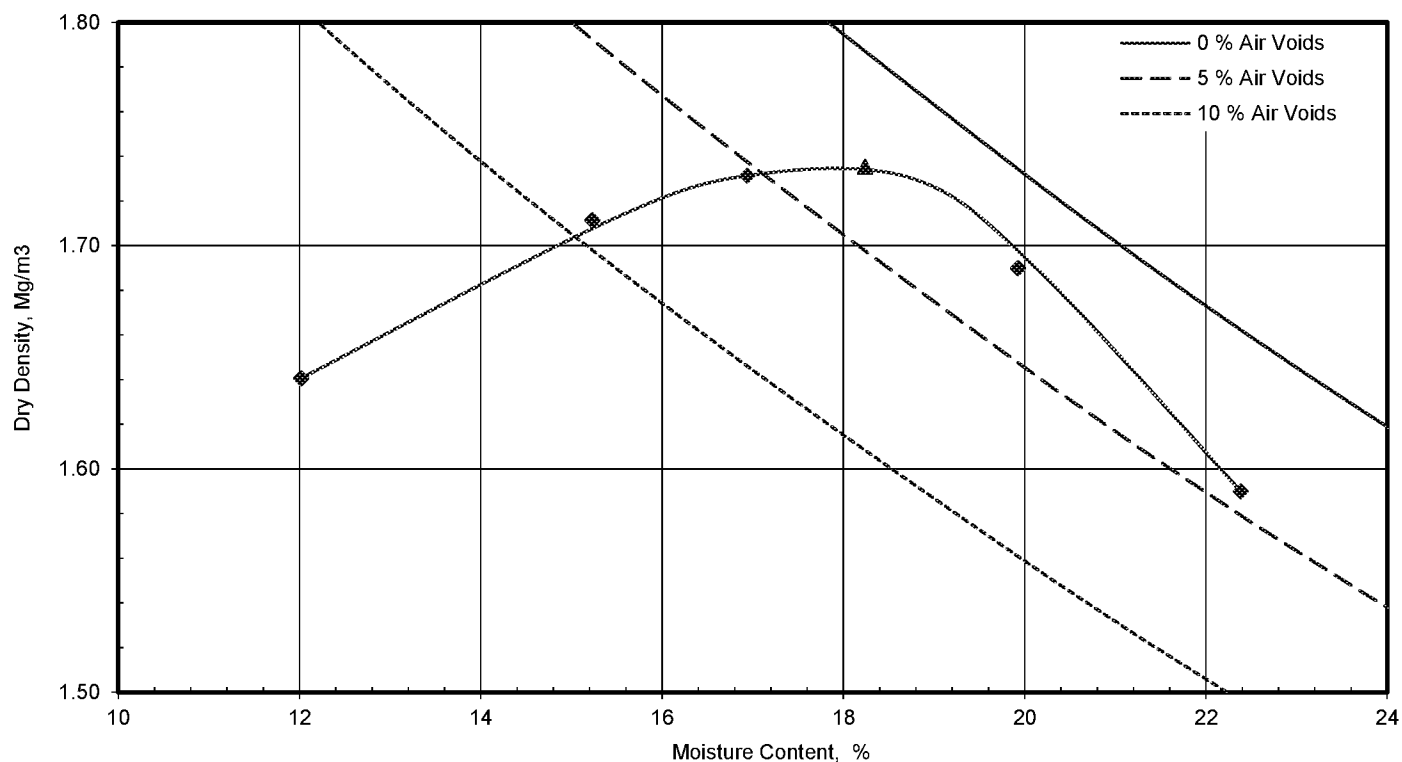
Sample Description: Light brown CLAY

Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 0.50

Depth Base [m]: Not Given

Sample Type: B



Compaction Point No.	1	2	3	4	5
Moisture Content %	12	15	17	20	22
Dry Density Mg/m³	1.64	1.71	1.73	1.69	1.59

Mould Type	1 Litre
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 Moisture Content %	28
Maximum Dry Density Mg/m³	1.74

Optimum Moisture Content %	18
----------------------------	----

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 02/11/2021

GF 109.21



4041

TEST CERTIFICATE**Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:
BS 1377-4: 1990i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 29/10/2021

Sampled By: Not Given

Contact: Nigel Ramsumair

Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2047602

Hole No.: TP101

Sample Reference: Not Given

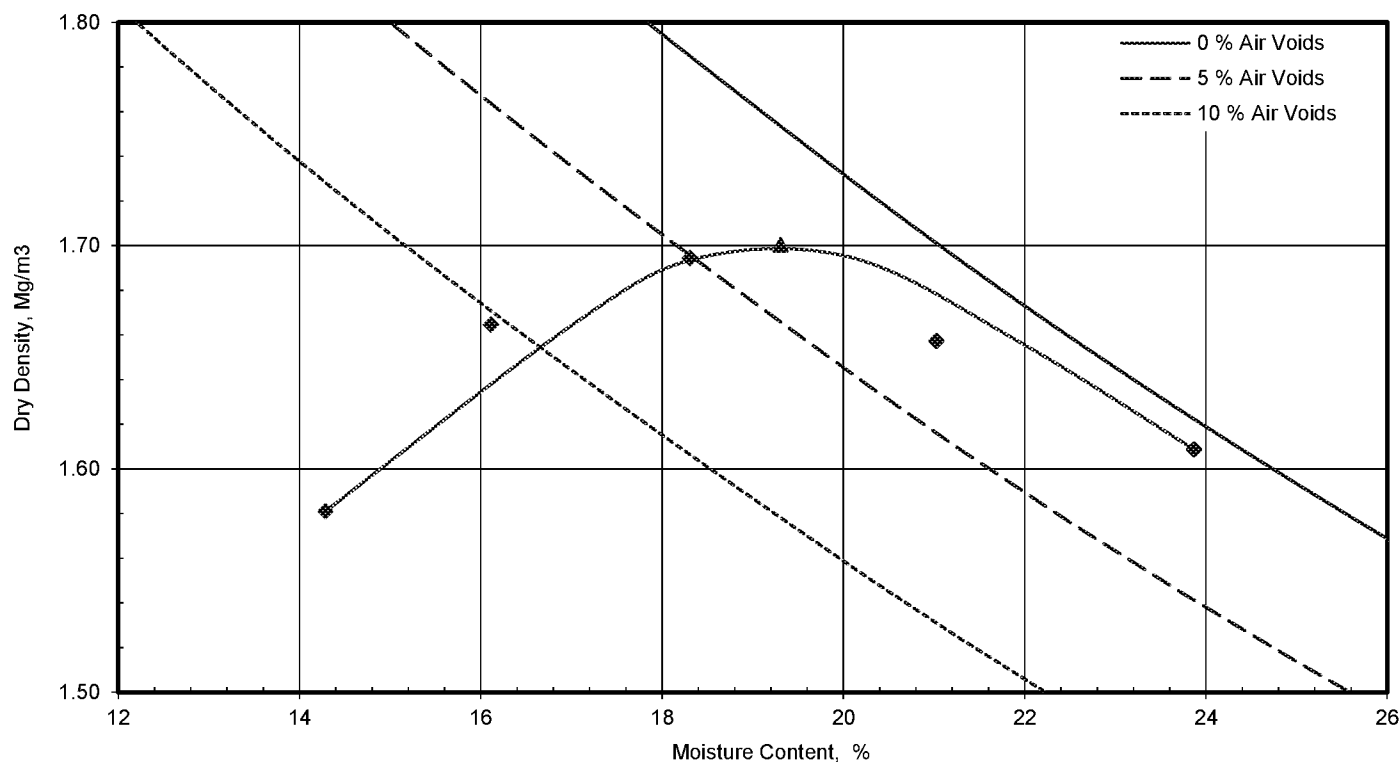
Sample Description: Yellowish brown CLAY

Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 0.60

Depth Base [m]: Not Given

Sample Type: B



Compaction Point No.	1	2	3	4	5
Moisture Content %	14	16	18	21	24
Dry Density Mg/m³	1.58	1.66	1.69	1.66	1.61

Mould Type	1 Litre
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 Moisture Content %	26
Maximum Dry Density Mg/m³	1.70

Optimum Moisture Content %	19
----------------------------	----

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 02/11/2021

GF 109.21



4041

TEST CERTIFICATE**Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:
BS 1377-4: 1990i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 29/10/2021

Sampled By: Not Given

Contact: Nigel Ramsumair

Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2047603

Hole No.: TP102

Sample Reference: Not Given

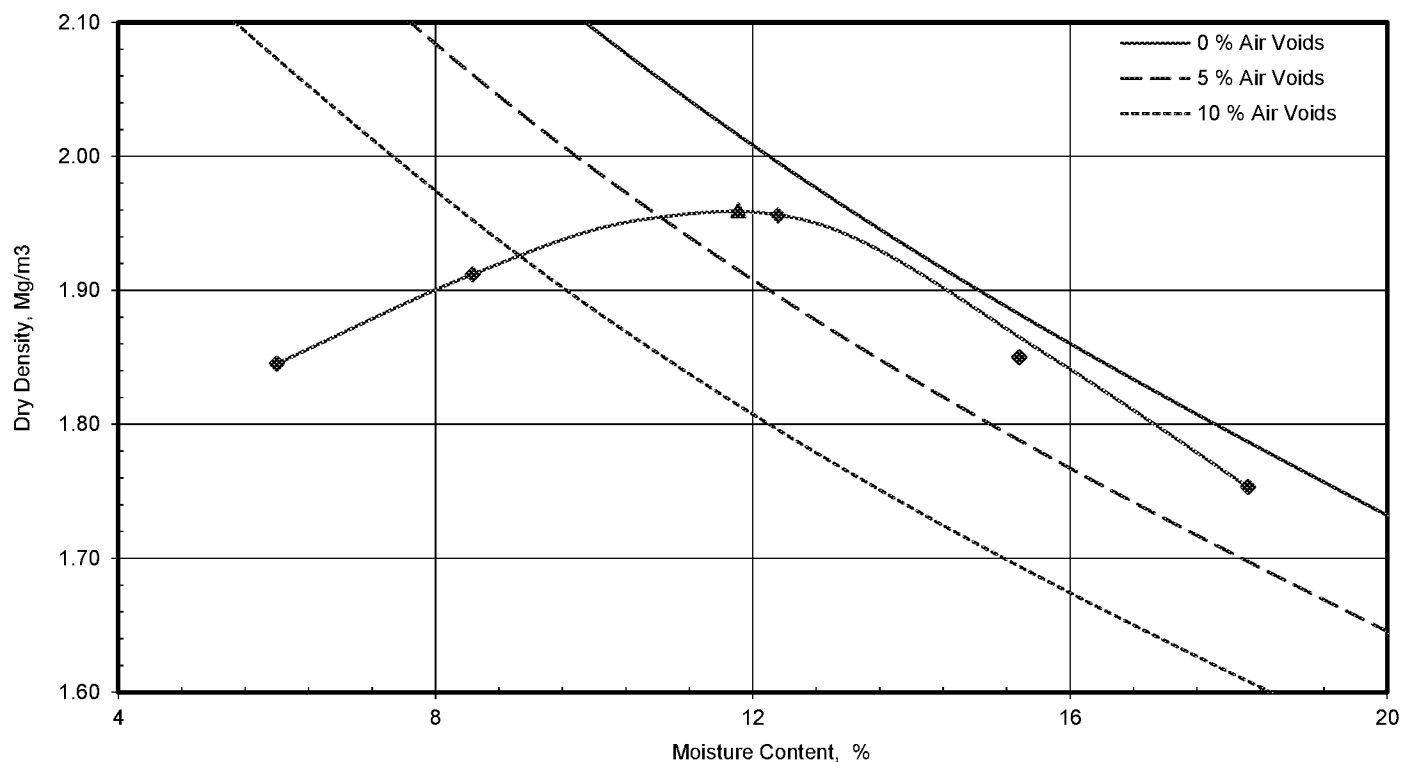
Sample Description: Yellowish brown slightly gravelly CLAY

Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 0.50

Depth Base [m]: Not Given

Sample Type: B



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	6.0	8.5	12	15	18
Dry Density	Mg/m³	1.85	1.91	1.96	1.85	1.75

Mould Type	CBR
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	0
Material Retained on 20.0 mm Sieve	2
Particle Density - Assumed	2.65
As received Moisture Content	18
Maximum Dry Density	1.96
Optimum Moisture Content	12

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks:

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 02/11/2021

GF 109.21



4041

TEST CERTIFICATE**Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:
BS 1377-4: 1990i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 29/10/2021

Sampled By: Not Given

Contact: Nigel Ramsumair

Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2047604

Hole No.: TP127

Sample Reference: Not Given

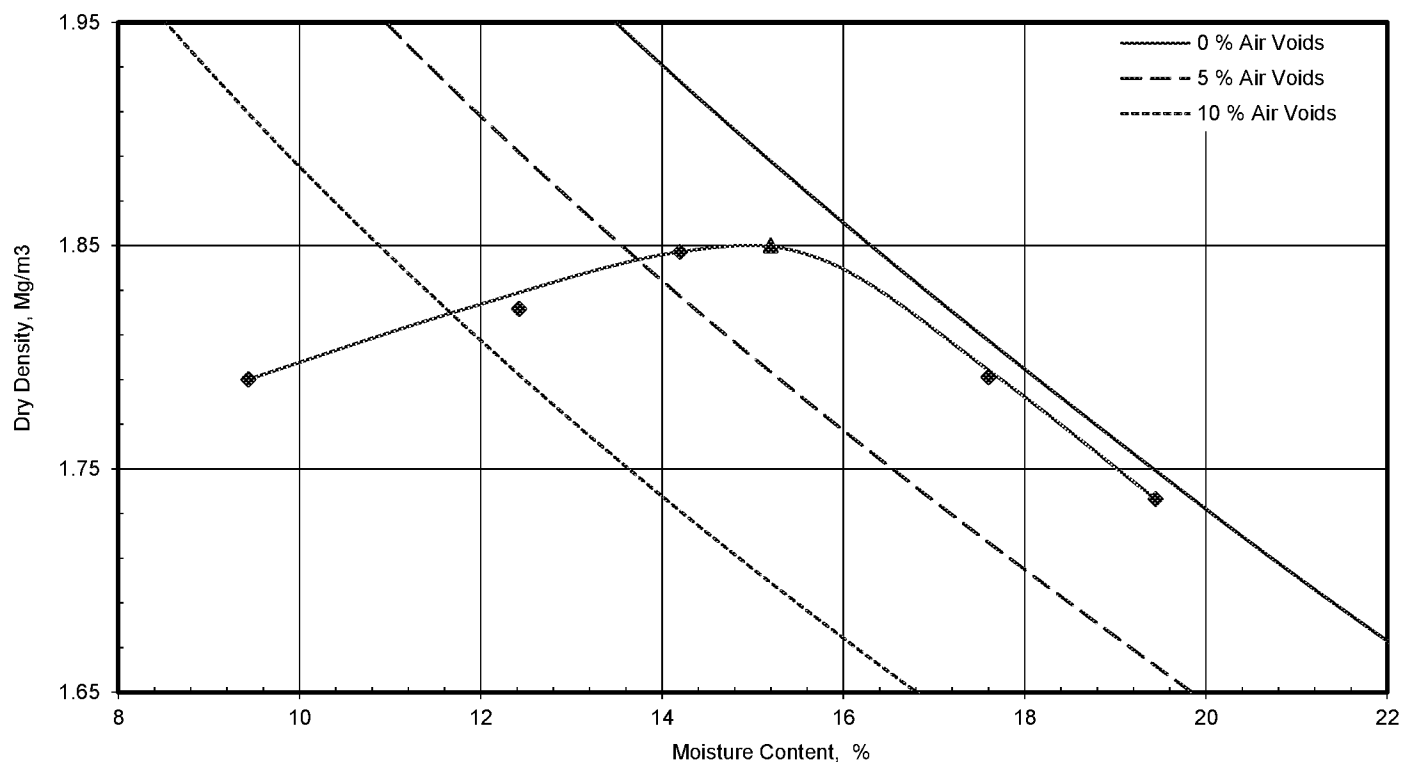
Sample Description: Light brown CLAY

Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 0.50

Depth Base [m]: Not Given

Sample Type: B



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	9.4	12	14	18	19
Dry Density	Mg/m³	1.79	1.82	1.85	1.79	1.74

Mould Type		1 Litre
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 Moisture Content	%	19
Maximum Dry Density	Mg/m³	1.85

Optimum Moisture Content	%	15
--------------------------	---	----

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 02/11/2021

GF 109.21



4041

TEST CERTIFICATE**Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:
BS 1377-4: 1990i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 29/10/2021

Sampled By: Not Given

Contact: Nigel Ramsumair

Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2047606

Hole No.: TP122

Sample Reference: Not Given

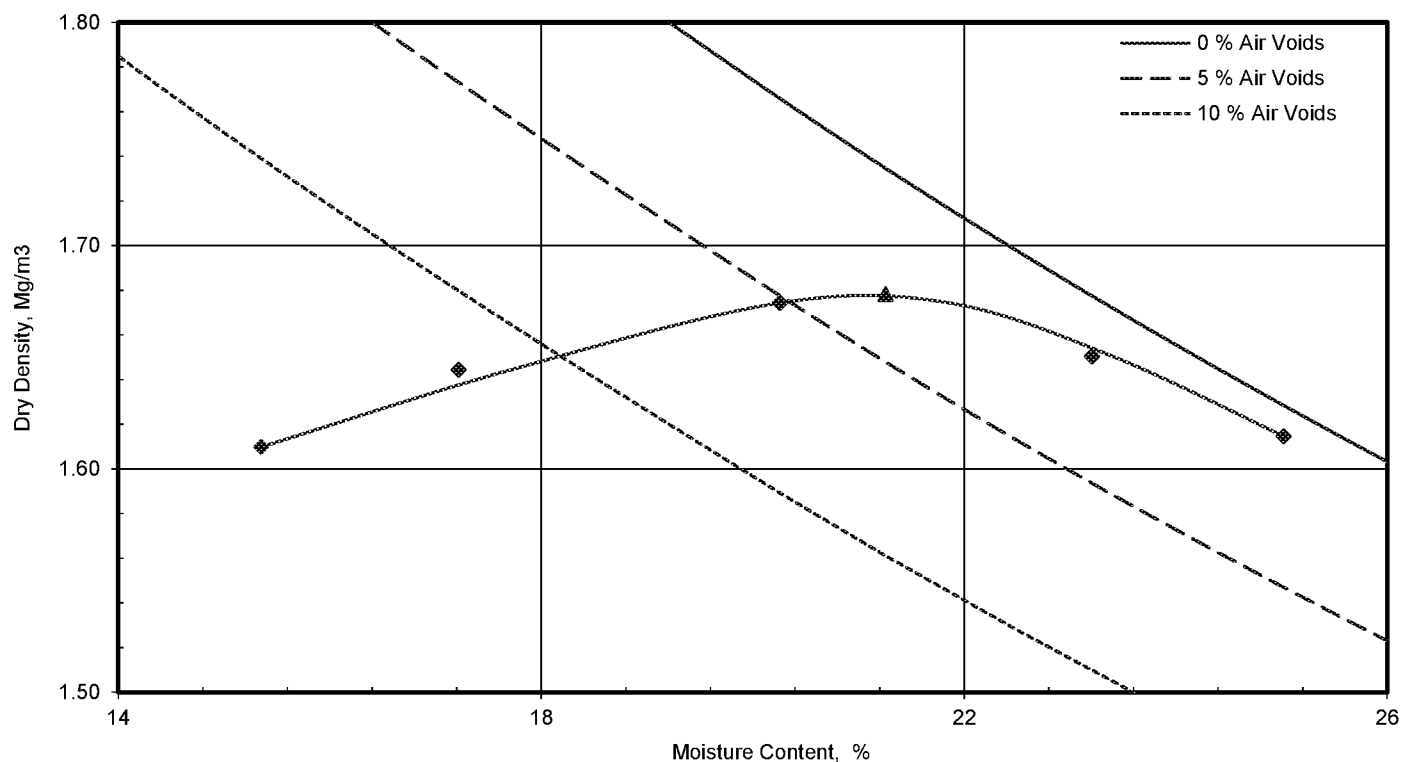
Sample Description: Light brown CLAY

Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 1.00

Depth Base [m]: Not Given

Sample Type: B



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	15	17	20	23	25
Dry Density	Mg/m³	1.61	1.64	1.67	1.65	1.61

Mould Type		1 Litre
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	2.75
As received Moisture Content	%	23
Maximum Dry Density	Mg/m³	1.68

Optimum Moisture Content	%	21
--------------------------	---	----

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

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Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 02/11/2021

GF 109.21



4041

TEST CERTIFICATE**Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:
BS 1377-4: 1990i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 29/10/2021

Sampled By: Not Given

Contact: Nigel Ramsumair

Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2047607

Hole No.: TP127

Sample Reference: Not Given

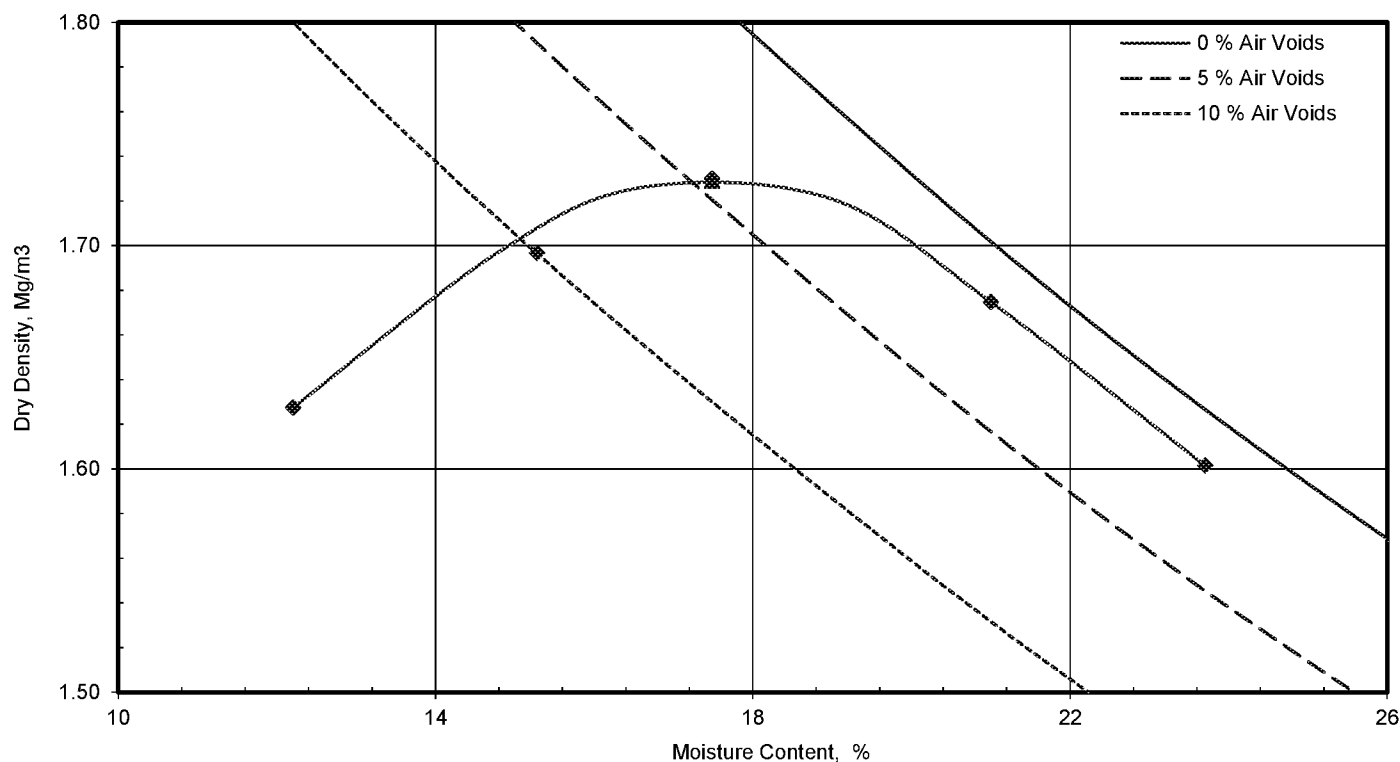
Sample Description: Light brown CLAY

Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 0.60

Depth Base [m]: Not Given

Sample Type: B



Compaction Point No.	1	2	3	4	5
Moisture Content %	12	15	17	21	24
Dry Density Mg/m³	1.63	1.70	1.73	1.67	1.60

Mould Type	1 Litre
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 Moisture Content %	34
Maximum Dry Density Mg/m³	1.73

Optimum Moisture Content %	17
----------------------------	----

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 02/11/2021

GF 109.21



4041

TEST CERTIFICATE**Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:
BS 1377-4: 1990i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 29/10/2021

Sampled By: Not Given

Contact: Nigel Ramsumair

Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2047608

Hole No.: TP107

Sample Reference: Not Given

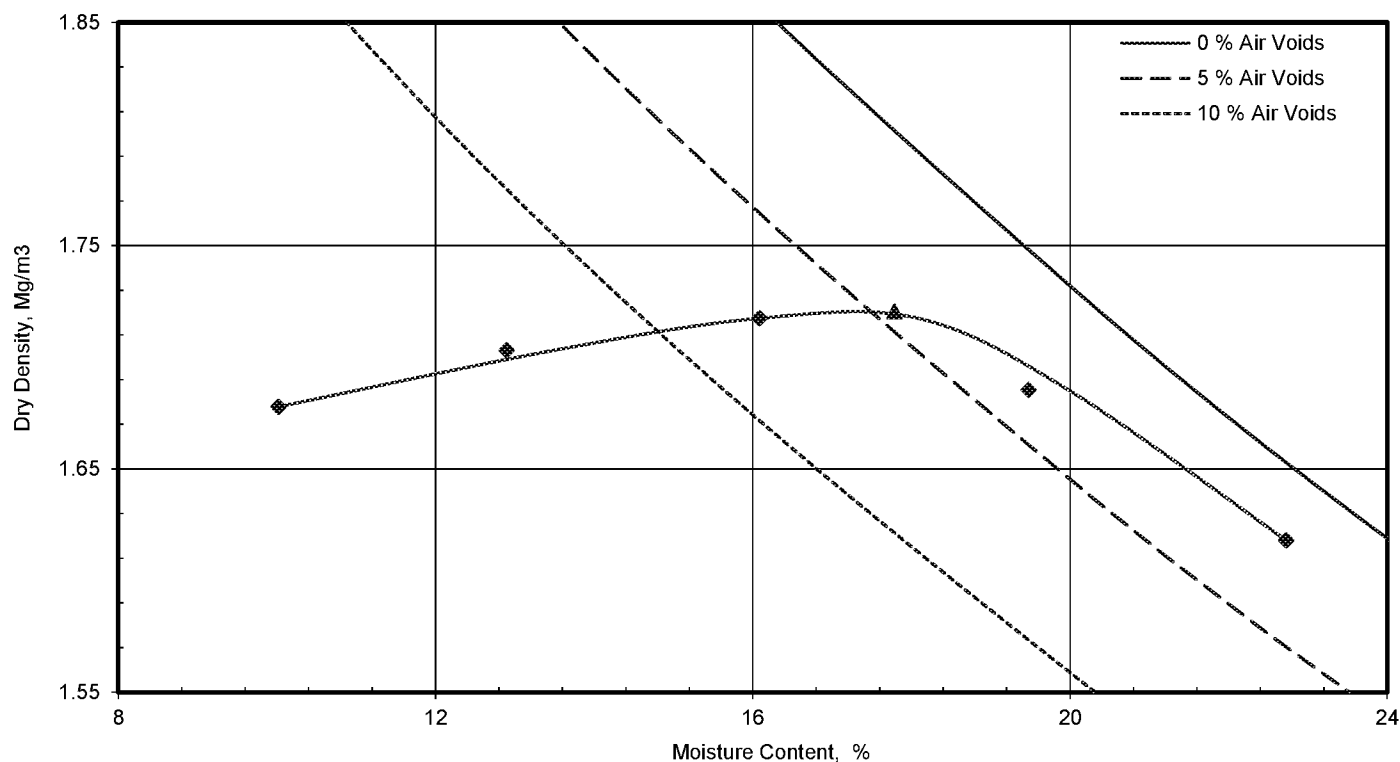
Sample Description: Yellowish brown CLAY

Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 0.50

Depth Base [m]: Not Given

Sample Type: B



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	10	13	16	19	23
Dry Density	Mg/m³	1.68	1.70	1.72	1.69	1.62

Mould Type		1 Litre
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 Moisture Content	%	29
Maximum Dry Density	Mg/m³	1.72

Optimum Moisture Content	%	18
--------------------------	---	----

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 02/11/2021

GF 109.21



4041

TEST CERTIFICATE**Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:
BS 1377-4: 1990i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 29/10/2021

Sampled By: Not Given

Contact: Nigel Ramsumair

Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2047609

Hole No.: TP118

Sample Reference: Not Given

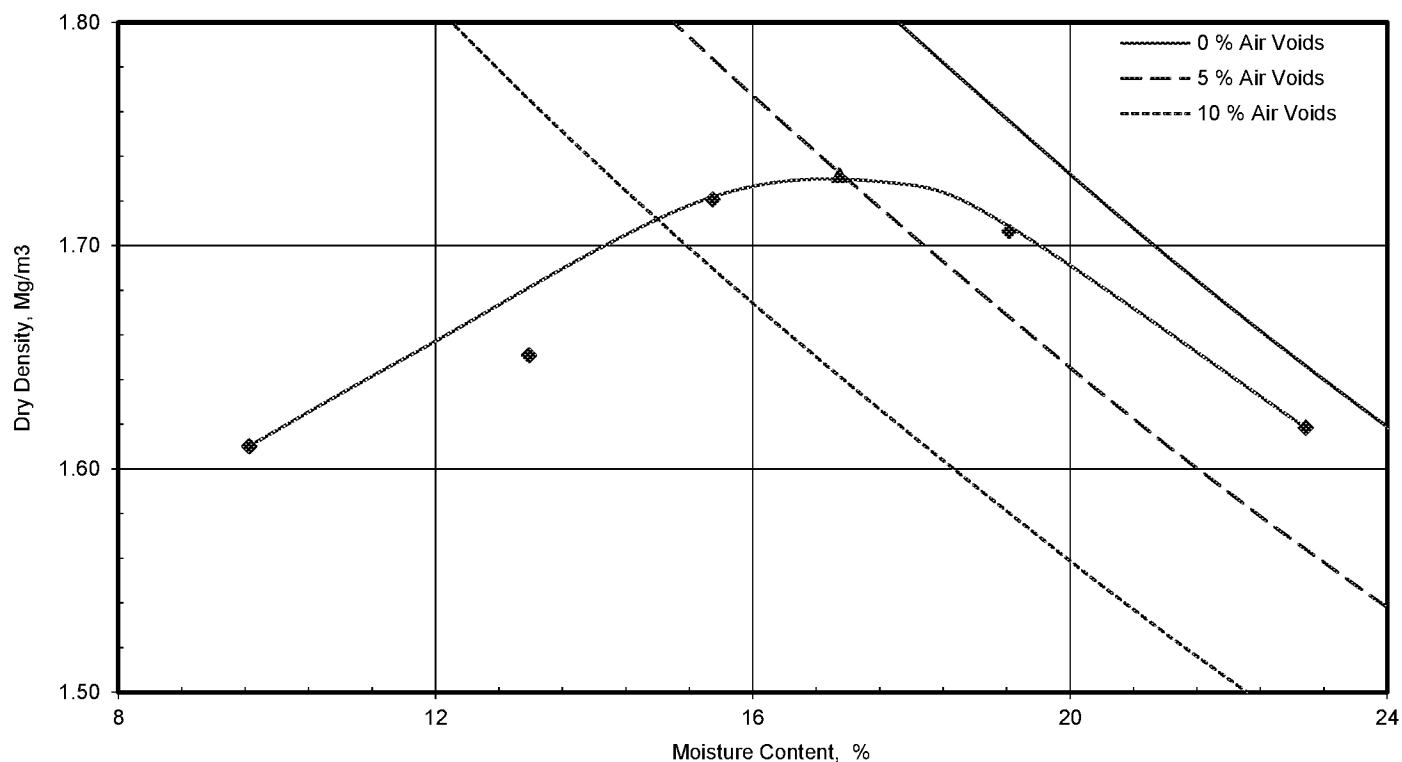
Sample Description: Yellowish brown CLAY

Sample Preparation: Sample was whole tested and broken down by hand. Material used was natural.

Depth Top [m]: 0.50

Depth Base [m]: Not Given

Sample Type: B



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	9.7	13	15	19	23
Dry Density	Mg/m³	1.61	1.65	1.72	1.71	1.62

Mould Type		1 Litre
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 Moisture Content	%	28
Maximum Dry Density	Mg/m³	1.73

Optimum Moisture Content	%	17
--------------------------	---	----

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 02/11/2021

GF 109.21



4041

TEST CERTIFICATE**Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:
BS 1377-4: 1990i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 29/10/2021

Sampled By: Not Given

Contact: Nigel Ramsumair

Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2047610

Hole No.: TP103

Sample Reference: Not Given

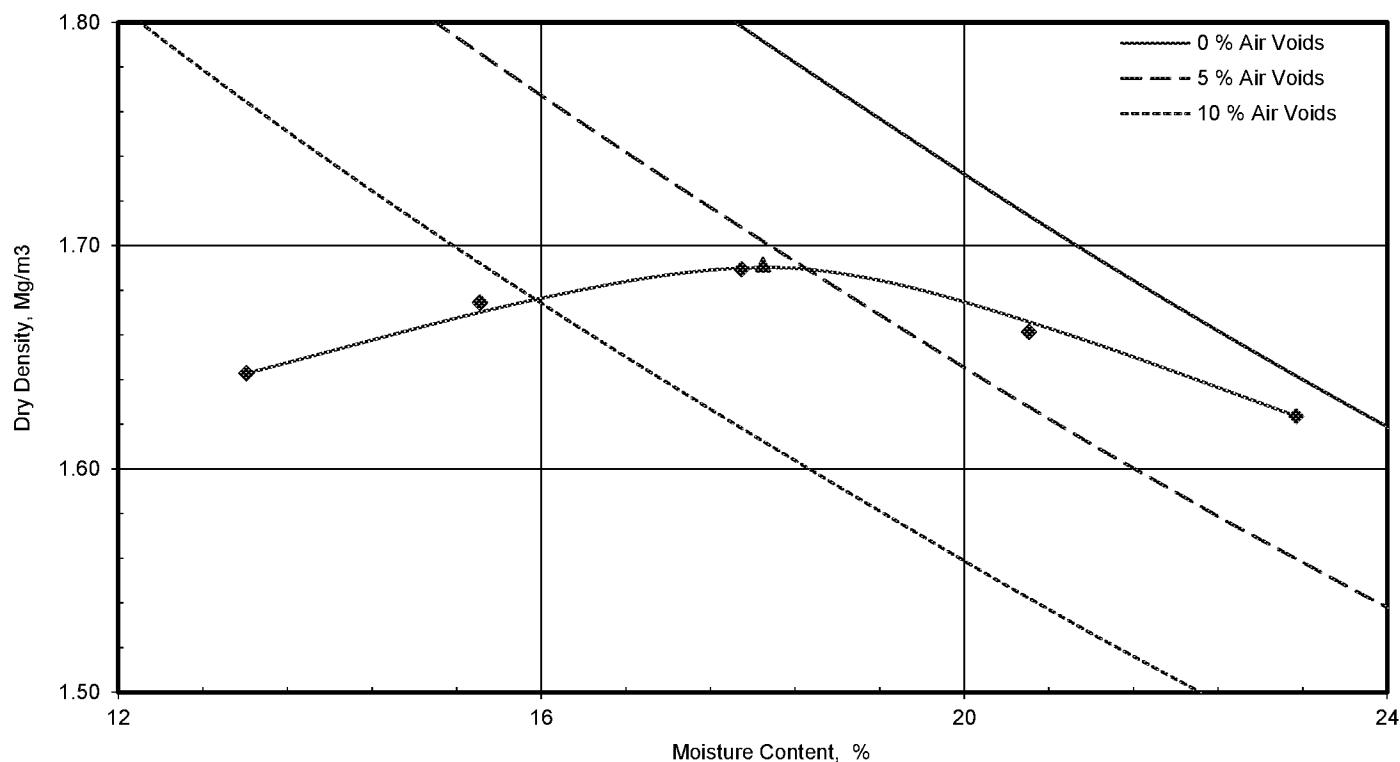
Sample Description: Yellowish brown CLAY

Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 0.50

Depth Base [m]: Not Given

Sample Type: B



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	13	15	18	21	23
Dry Density	Mg/m³	1.64	1.67	1.69	1.66	1.62

Mould Type		1 Litre
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 Moisture Content	%	23
Maximum Dry Density	Mg/m³	1.69

Optimum Moisture Content	%	18
--------------------------	---	----

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 02/11/2021

GF 109.21



4041

TEST CERTIFICATE**Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:
BS 1377-4: 1990i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 29/10/2021

Sampled By: Not Given

Contact: Nigel Ramsumair

Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2047611

Hole No.: TP111

Sample Reference: Not Given

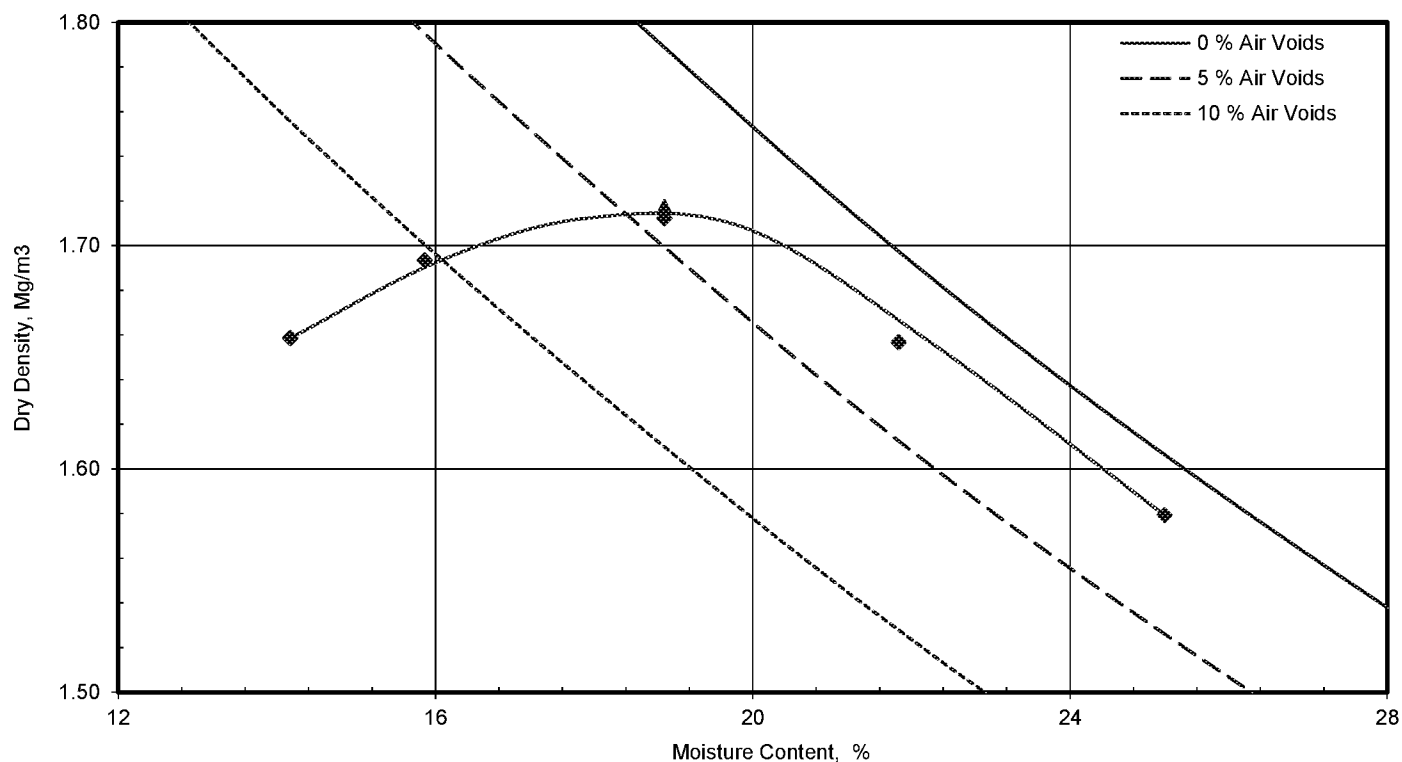
Sample Description: Yellowish brown CLAY

Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 0.60

Depth Base [m]: Not Given

Sample Type: B



Compaction Point No.	1	2	3	4	5
Moisture Content %	14	16	19	22	25
Dry Density Mg/m³	1.66	1.69	1.71	1.66	1.58

Mould Type	1 Litre
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	2.70
As received Moisture Content %	22
Maximum Dry Density Mg/m³	1.72

Optimum Moisture Content %	19
----------------------------	----

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 02/11/2021

GF 109.21



4041

TEST CERTIFICATE**Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:
BS 1377-4: 1990i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 29/10/2021

Sampled By: Not Given

Contact: Nigel Ramsumair

Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2047612

Hole No.: S1

Sample Reference: Not Given

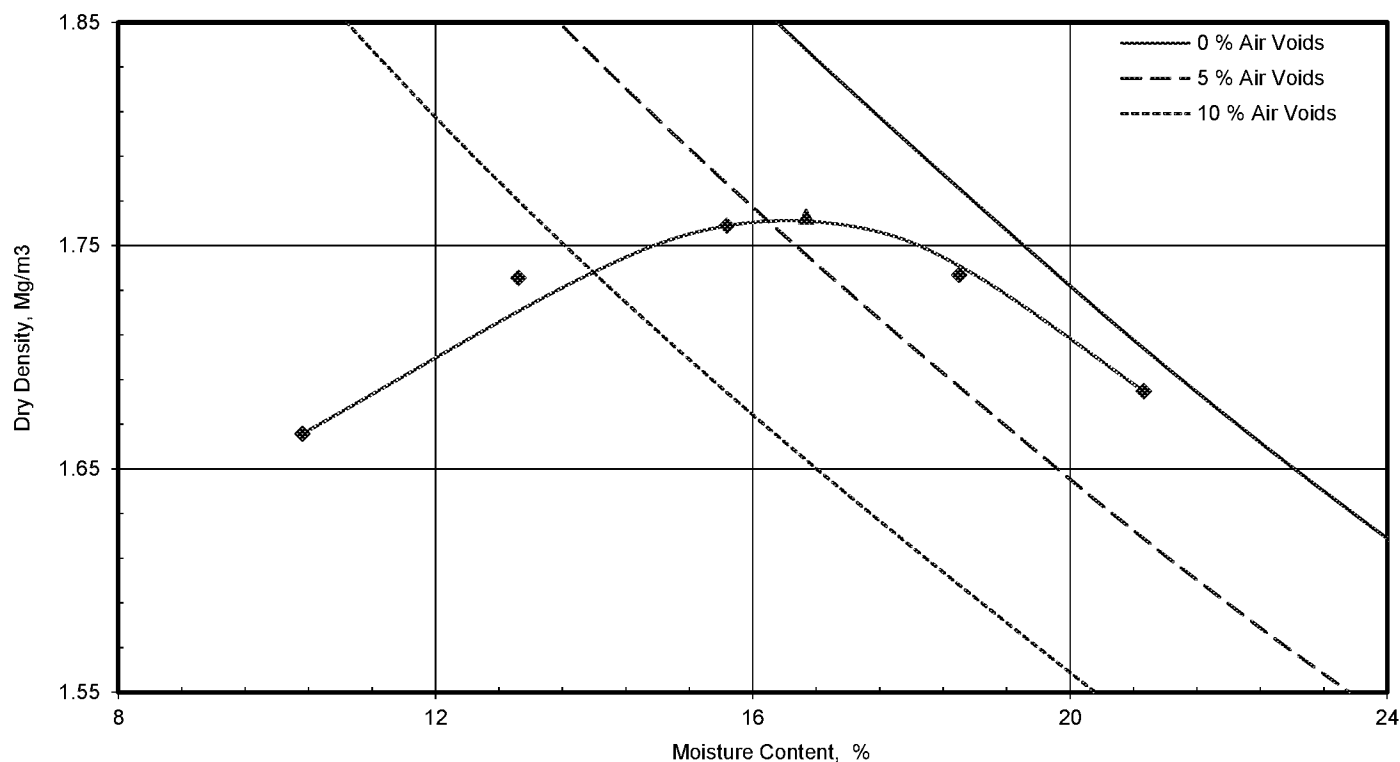
Sample Description: Greyish brown slightly gravelly sandy CLAY

Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 0.50

Depth Base [m]: Not Given

Sample Type: B



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	10	13	16	19	21
Dry Density	Mg/m³	1.67	1.74	1.76	1.74	1.68

Mould Type		1 Litre
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 Moisture Content	%	21
Maximum Dry Density	Mg/m³	1.76

Optimum Moisture Content	%	17
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Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

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Signed: [Signature]

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd



4041

TEST CERTIFICATE**Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:
BS 1377-4: 1990i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 29/10/2021

Sampled By: Not Given

Contact: Nigel Ramsumair

Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2047615

Hole No.: S4

Sample Reference: Not Given

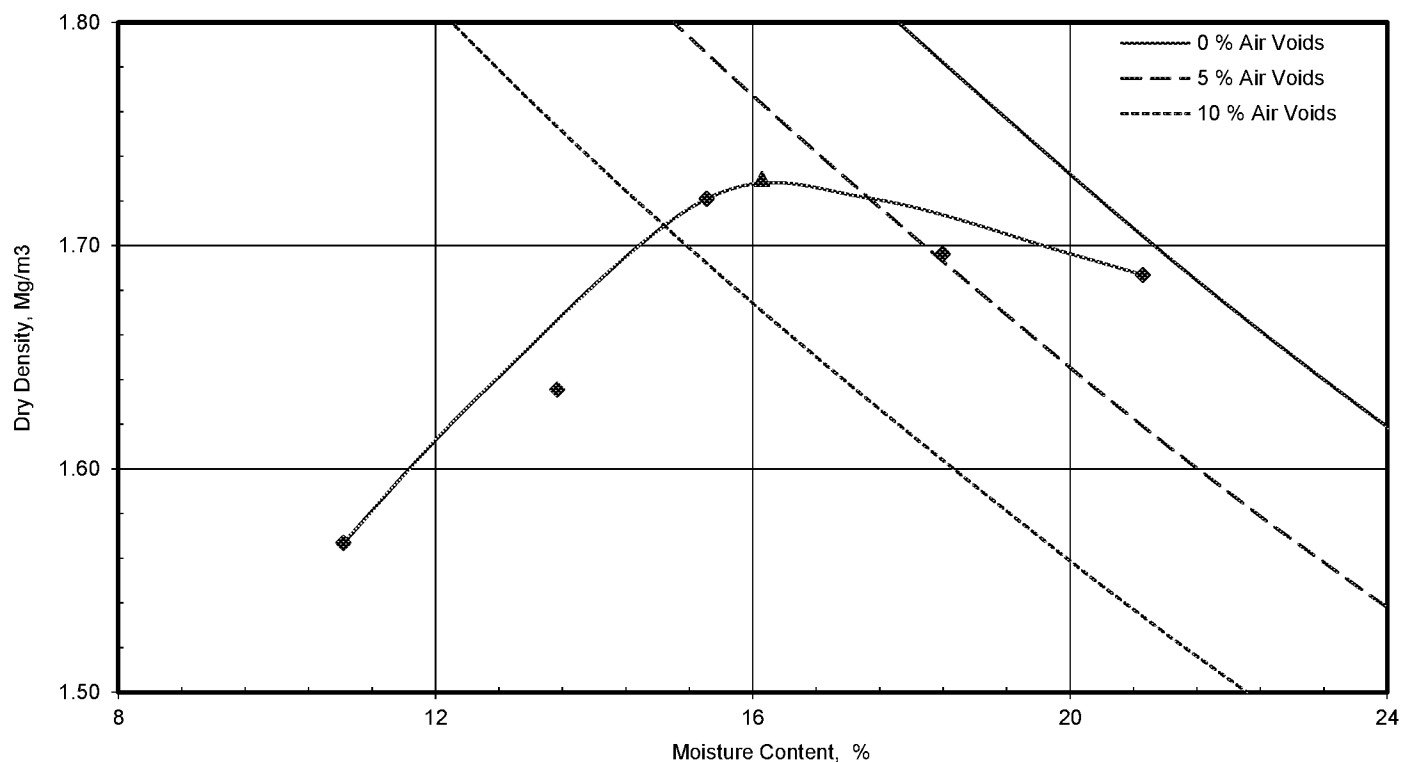
Sample Description: Brown sandy CLAY

Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 0.50

Depth Base [m]: Not Given

Sample Type: B



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	11	14	15	18	21
Dry Density	Mg/m³	1.57	1.64	1.72	1.70	1.69

Mould Type		1 Litre
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 Moisture Content	%	26
Maximum Dry Density	Mg/m³	1.73

Optimum Moisture Content	%	16
--------------------------	---	----

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 02/11/2021

GF 109.21



4041

TEST CERTIFICATE**Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:
BS 1377-4: 1990i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 29/10/2021

Sampled By: Not Given

Contact: Nigel Ramsumair

Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2047618

Hole No.: S7

Sample Reference: Not Given

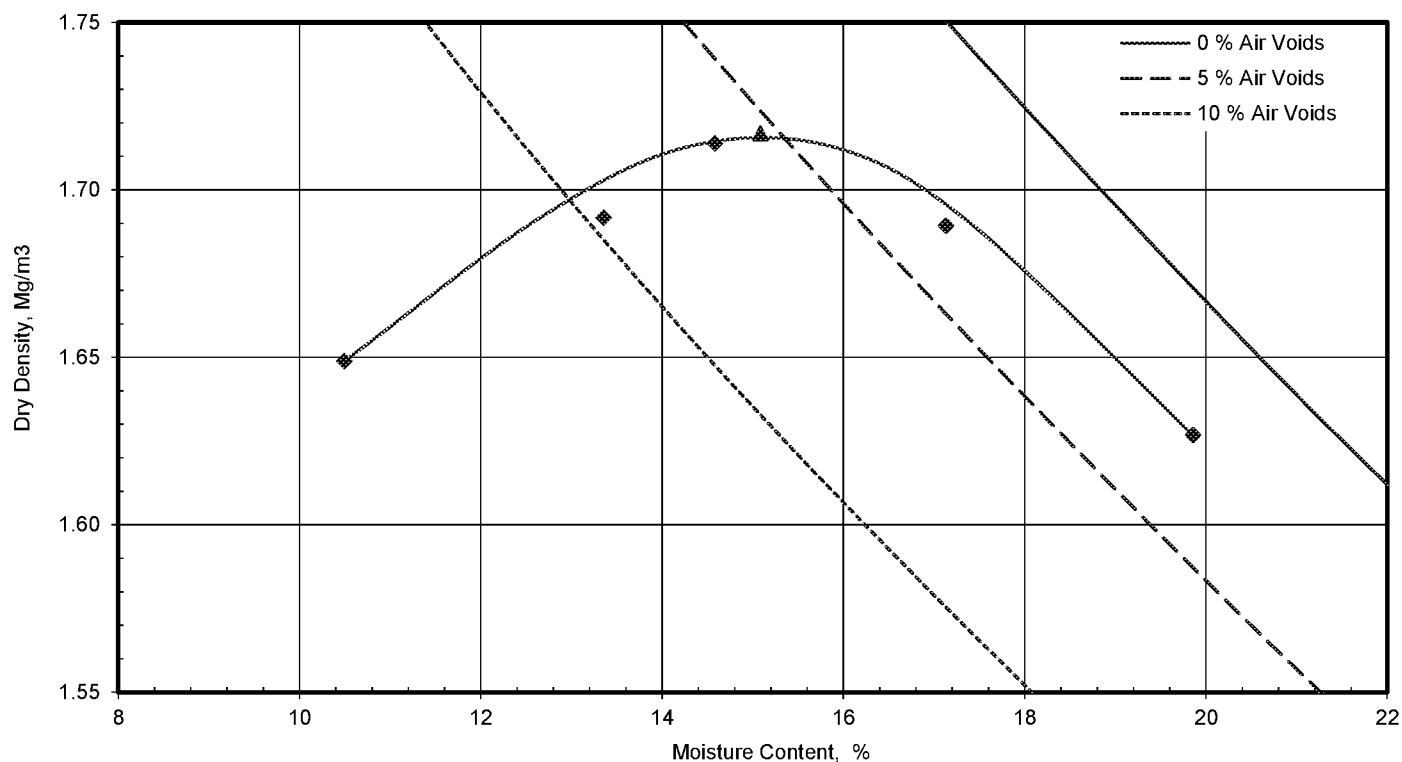
Sample Description: Greyish brown slightly gravelly sandy CLAY

Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 0.50

Depth Base [m]: Not Given

Sample Type: B



Compaction Point No.	1	2	3	4	5
Moisture Content %	10	13	15	17	20
Dry Density Mg/m³	1.65	1.69	1.71	1.69	1.63

Mould Type	CBR
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve %	0
Material Retained on 20.0 mm Sieve %	1
Particle Density - Assumed Mg/m³	2.50
As received Moisture Content %	13
Maximum Dry Density Mg/m³	1.72

Optimum Moisture Content %	15
----------------------------	----

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks:

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 02/11/2021

GF 109.21



4041

TEST CERTIFICATE**Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:
BS 1377-4: 1990i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client: Enzygo Geoenvironmental Ltd
Client Address: Ducie House, Ducie Street,, M1 2JW

Client Reference: MAN 1668 019

Job Number: 21-16487

Date Sampled: 01/11/2021

Date Received: 12/10/2021

Date Tested: 29/10/2021

Sampled By: Not Given

Contact: Nigel Ramsumair

Site Address: Hook Lane

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2047620

Hole No.: S9

Sample Reference: Not Given

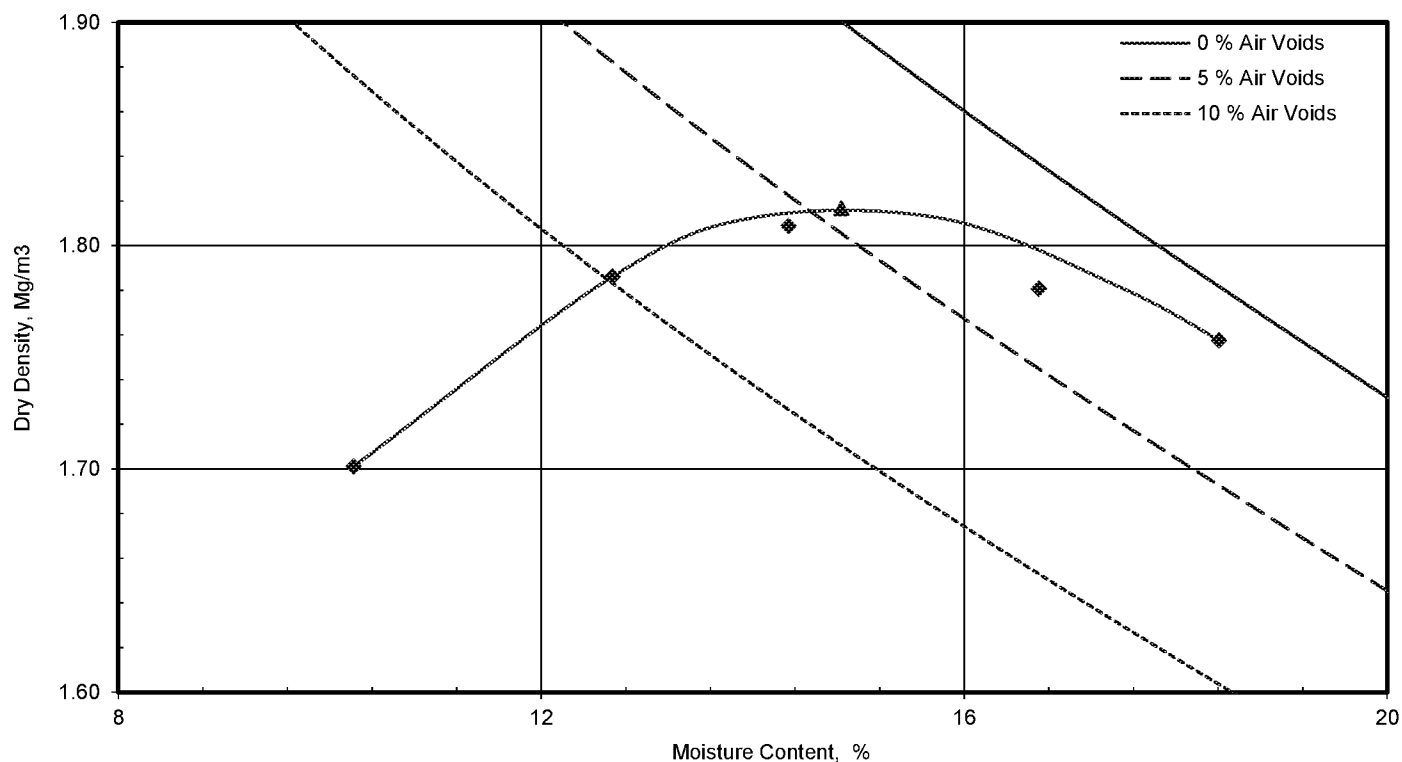
Sample Description: Greyish brown slightly gravelly sandy CLAY

Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 0.50

Depth Base [m]: Not Given

Sample Type: B



Compaction Point No.	1	2	3	4	5	
Moisture Content	%	10	13	14	17	18
Dry Density	Mg/m³	1.70	1.79	1.81	1.78	1.76

Mould Type		1 Litre
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	1
Particle Density - Assumed	Mg/m³	2.65
As received Moisture Content	%	18
Maximum Dry Density	Mg/m³	1.82

Optimum Moisture Content	%	15
--------------------------	---	----

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 02/11/2021

GF 109.21

TABLE 6/2: (02/17) Grading Requirements for Acceptable Earthworks Materials Other Than Classes 6F4, 6F5 and 6S

Percentage by Mass Passing the Size Shown																					
Class	Size (mm)		Size (mm) BS Series													Size (microns) BS Series				Size (microns)	Class
	500	300	125	90	75	37.5	28	20	14	10	6.3	5	3.35	2	1.18	600	300	150	63		
1A		100	95-100																<15		1A
1B			100																<15		1B
1C	100		10-95														0-25		15		1C
2A & 2B			100											80-100					15-100		2A & 2B
2C			100											15-80					15-80		2C
2D			100																80-100	0-20	2D
6A	100									0-100		0-85					0-45		0-5		6A
6B	100		0-10																		6B
6C			100			0-100					0-100		0-35	0-10			0-2				6C
6D										100		89-100		60-100	30-100	15-80	5-48	0-15 except 0-20 for crushed rock			6D
6E & 6R			100	85-100						25-100							10-100			<15	6E & 6R
6F1					100	75-100				40-95		30-85					10-50		<15		6F1
6F2			100	80-100	65-100	45-100				15-60		10-45					0-25		0-12		6F2
6F3			100	80-100	65-100	45-100				15-60		10-45					0-25		0-12		6F3
6H								100				60-100			15-45	0-25		0-5			6H
6I & 6J			100		85-100				25-100					15-100		9-100			<15		6I & 6J
6K								100											0-10		6K
6L										100		89-100		60-100	30-100	15-100	5-70	0-15 except 0-20 for crushed rock			6L

TABLE 6/2: (02/16) Grading Requirements for Acceptable Earthworks Materials (continued)

Percentage by Mass Passing the Size Shown																					
Class	Size (mm)		Size (mm) BS Series													Size (microns) BS Series				Size (microns)	Class
			500	300	125	90	75	37.5	28	20	14	10	6.3	5	3.35	2	1.18	600	300		
	500	300	125	90	75	37.5	28	20	14	10	6.3	5	3.35	2	1.18	600	300	150	63	2	
6M					100														0-10		6M
6N & 6P					100														<15		6N & 6P
6S					100									60-100		30-90		4-45	0-16		6S
7A					100														15-100		7A
7C			100		85-100				83-100					80-100		60-100			15-45	0-20	7C
7D			100		85-100				40-90					15-79		15-75			15-45	0-20	7D
7E					100		95-100												15-100		7E
7F			100																15-100		7F
7I					100		95-100												15-100		7I

TABLE 6/4: (02/16) Method Compaction for Earthworks Materials: Plant and Methods (Method 1 to Method 6)
(This Table is to be read in conjunction with sub-Clause 612.10)

Type of Compaction Plant	Ref No.	Category	Method 1		Method 2		Method 3		Method 4		Method 5		Method 6		
			D	N#	D	N#	D	N#	D	N	D	N	N for D = 110 mm	N for D = 150 mm	N for D = 250 mm
Smoothed wheeled roller (or vibratory roller operating without vibration)	1	Mass per metre width of roll: over 2100 kg up to 2700 kg	125	8	125	10	125	10*	175	4	unsuitable		unsuitable	unsuitable	unsuitable
	2	over 2700 kg up to 5400 kg	125	6	125	8	125	8*	200	4	unsuitable		16	unsuitable	unsuitable
	3	over 5400 kg	150	4	150	8	unsuitable		300	4	unsuitable		8	16	unsuitable
Grid roller	1	Mass per metre width of roll: over 2700 kg up to 5400 kg	150	10	unsuitable		150	10	250	4	unsuitable		unsuitable	unsuitable	unsuitable
	2	over 5400 kg up to 8000 kg	150	8	125	12	unsuitable		325	4	unsuitable		20	unsuitable	unsuitable
	3	over 8000 kg	150	4	150	12	unsuitable		400	4	unsuitable		12	20	unsuitable
Deadweight tamping roller	1	Mass per metre width of roll: over 4000 kg up to 6000 kg	225	4	150	12	250	4	350	4	unsuitable		12	20	unsuitable
	2	over 6000 kg	300	5	200	12	300	3	400	4	unsuitable		8	12	20
Pneumatic-tyred roller	1	Mass per wheel: over 1000 kg up to 1500 kg	125	6	unsuitable		150	10*	240	4	unsuitable		unsuitable	unsuitable	unsuitable
	2	over 1500 kg up to 2000 kg	150	5	unsuitable		unsuitable		300	4	unsuitable		unsuitable	unsuitable	unsuitable
	3	over 2000 kg up to 2500 kg	175	4	125	12	unsuitable		350	4	unsuitable		unsuitable	unsuitable	unsuitable
	4	over 2500 kg up to 4000 kg	225	4	125	10	unsuitable		400	4	unsuitable		unsuitable	unsuitable	unsuitable
	5	over 4000 kg up to 6000 kg	300	4	125	10	unsuitable		unsuitable		unsuitable		12	unsuitable	unsuitable
	6	over 6000 kg up to 8000 kg	350	4	150	8	unsuitable		unsuitable		unsuitable		12	unsuitable	unsuitable
	7	over 8000 kg up to 12000 kg	400	4	150	8	unsuitable		unsuitable		unsuitable		10	16	unsuitable
	8	over 12000 kg	450	4	175	6	unsuitable		unsuitable		unsuitable		8	12	unsuitable
Vibratory tamping roller		Mass per metre width of a vibrating roll:													
	1	over 700 kg up to 1300 kg	100	12	100	12	150	12	100	10	unsuitable		unsuitable	unsuitable	unsuitable
	2	over 1300 kg up to 1800 kg	125	12	125	12	175	12*	175	8	unsuitable		12	unsuitable	unsuitable
	3	over 1800 kg up to 2300 kg	150	12	150	12	200	12*	unsuitable		unsuitable		8	12	unsuitable
	4	over 2300 kg up to 2900 kg	150	9	150	9	250	12*	unsuitable		400	5	6	10	unsuitable
	5	over 2900 kg up to 3600 kg	200	9	200	9	275	12*	unsuitable		500	6	6	10	unsuitable
	6	over 3600 kg up to 4300 kg	225	9	225	9	300	12*	unsuitable		600	6	4	8	unsuitable
	7	over 4300 kg up to 5000 kg	250	9	250	9	300	9*	unsuitable		700	6	3	7	12
	8	over 5000 kg	275	9	275	9	300	7*	unsuitable		800	6	3	6	10