


Enviroarm Ltd.
597 Walsall Road,
Great Wyrley
Staffs.
WS6 6AE

For the attention of Mr. Andy Morris

Report No: C7795
Issue No 01


LABORATORY TEST REPORT

Project Name	CHADWICH LANE QUARRY		
Project Number	C7795	Date samples received	20/09/2022
Your Ref		Date written instructions received	20/09/2022
Purchase Order		Date testing commenced	25/09/2022
Please find enclosed the results as summarised below			
Item No	Test Quantity	Description	ISO 17025 Accredited
2.11	2	Moisture Content	Yes
2.21	2	Four point liquid and plastic limits	Yes
2.52	2	Particle density - Small pycnometer method	Yes
2.61	2	Wet sieve analysis	Yes
2.63	2	Pipette sedimentation	Yes
Remarks :			
Issued by : J Hopkins		Date of Issue : 04/10/2022	Key to symbols used in this report S/C : Testing was sub-contracted
Approved Signatories :  04/10/2022		J.Hopkins (Laboratory Coordinator), M D Brown (Senior Quality Manager), R Norris (Supervisor)	
<p>Unless we are notified to the contrary, samples will be disposed after a period of one month from this date. The results reported relate to samples received in the laboratory only. All results contained in this report are provisional unless signed by an approved signatory This report should not be reproduced except in full without the written approval of the laboratory. Under multisite accreditation the testing contained in this report may have been performed at another Terra Tek laboratory.</p> <p>Only those results indicated in this report are UKAS accredited and any opinions or interpretations expressed are outside the scope of UKAS accreditation.</p> <p>Feedback on the this report may be left via our website terratek.co.uk/feedback</p>			



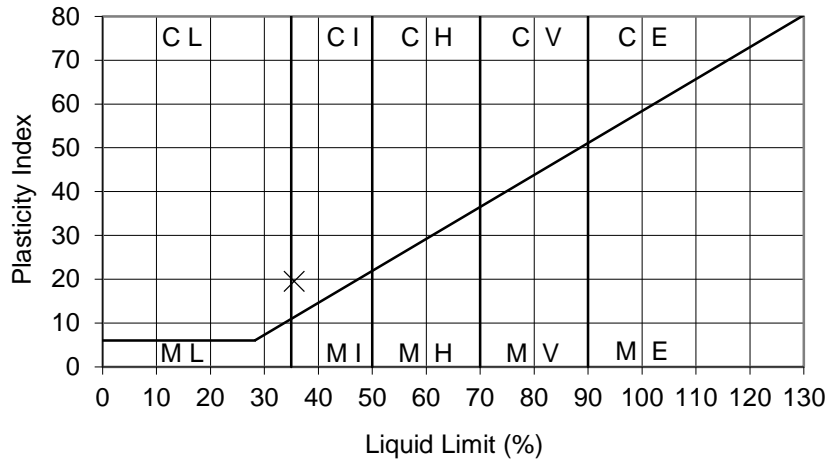
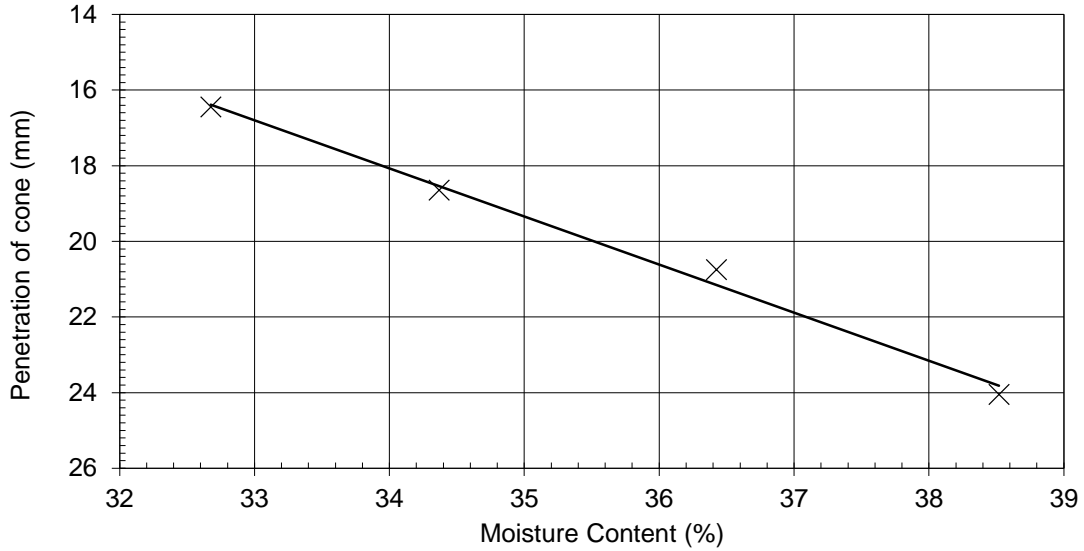
College Road North, Aston Clinton, Bucks, HP22 5EZ
Tel: 01494 810136
astonclinton@terratek.co.uk
www.terratek.co.uk

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 SITE INVESTIGATION AND LABORATORY SERVICES	Site	CHADWICH LANE QUARRY	Contract No.	C7795
	Client	Enviroarm Ltd	Date Sampled	14/09/2022
	Engineer	-	Sample Ref	AL 1.1
			Sample Type	BB


Non Engineering Description : Reddish brown sandy CLAY.


Preparation : Sample as received



Results :

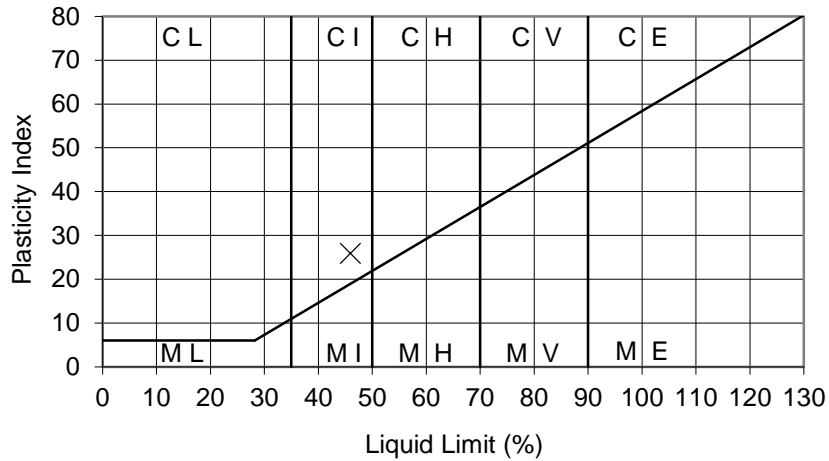
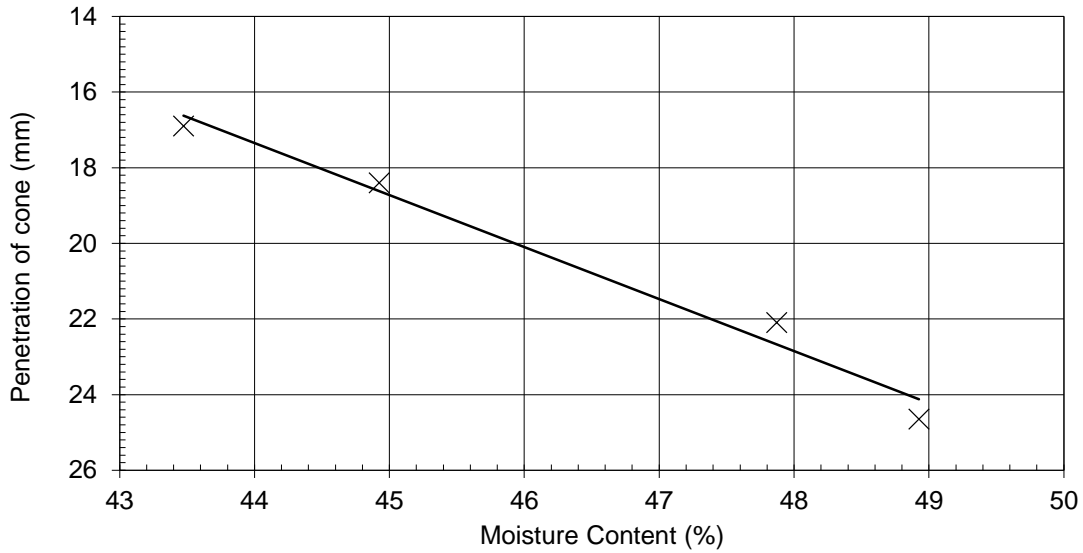
As Received Moisture Content : (BS1377:Part 2:Clause 3:1990)	15 %
Percentage retained on 425µm sieve :	0 %
Liquid Limit :	36 %
Plastic Limit :	16 %
Plasticity Index :	20
Equivalent moisture content of material passing 425µm sieve :	15 %
Liquidity Index :	-0.05

Originator	Checked & Approved	Liquid Limit (Four Point Cone Penetrometer Method) Plastic Limit, Plasticity Index & Liquidity Index BS 1377:Part 2:Clause 4.3:1990 BS 1377:Part 2:Clause 5:1990	
SP	04/10/2022 <i>far</i>		

 SITE INVESTIGATION AND LABORATORY SERVICES	Site	CHADWICH LANE QUARRY	Contract No.	C7795
	Client	Enviroarm Ltd	Date Sampled	14/09/2022
	Engineer	-	Sample Ref	AL 1.2
			Sample Type	BB


Non Engineering Description : Reddish brown sandy CLAY.

Preparation : Sample as received



Results :

As Received Moisture Content : (BS1377:Part 2:Clause 3:1990)	15 %
Percentage retained on 425µm sieve :	0 %
Liquid Limit :	46 %
Plastic Limit :	20 %
Plasticity Index :	26
Equivalent moisture content of material passing 425µm sieve :	15 %
Liquidity Index :	-0.19

Originator	Checked & Approved	Liquid Limit (Four Point Cone Penetrometer Method) Plastic Limit, Plasticity Index & Liquidity Index BS 1377:Part 2:Clause 4.3:1990 BS 1377:Part 2:Clause 5:1990	
SP	[Signature] 04/10/2022		



Site Investigation & Laboratory Services

Site CHADWICH LANE QUARRY

Contract No **C7795**

Client Enviroarm Ltd

Engineer -

Date Sampled	Depth (m)	Sample Type	Description	Particle Density Mg/m ³
14/09/2022	AL 1.1	BB	Reddish brown sandy CLAY.	2.69
14/09/2022	AL 1.2	BB	Reddish brown sandy CLAY.	2.71

Originator

Checked & Approved

SP

Jan
04/10/2022

PARTICLE DENSITY

BS 1377 : Part 2 : Clause 8.3 : 1990

Determination of Particle Density (Small Pyknometer Method)





SITE INVESTIGATION AND LABORATORY SERVICES

Site CHADWICH LANE QUARRY

Contract No **C7795**

Date Sampled 14/09/2022

Sample Ref PSD 1.1

Client Enviroarm Ltd

Engineer -

Sample Type BB

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	100
28.0 mm	100
20.0 mm	100
14.0 mm	100
10.0 mm	100
6.30 mm	100
5.00 mm	100
3.35 mm	100
2.00 mm	100
1.18 mm	99
630 µm	99
425 µm	98
300 µm	95
200 µm	87
150 µm	81
63 µm	56
20 µm	45
6 µm	31
2 µm	19

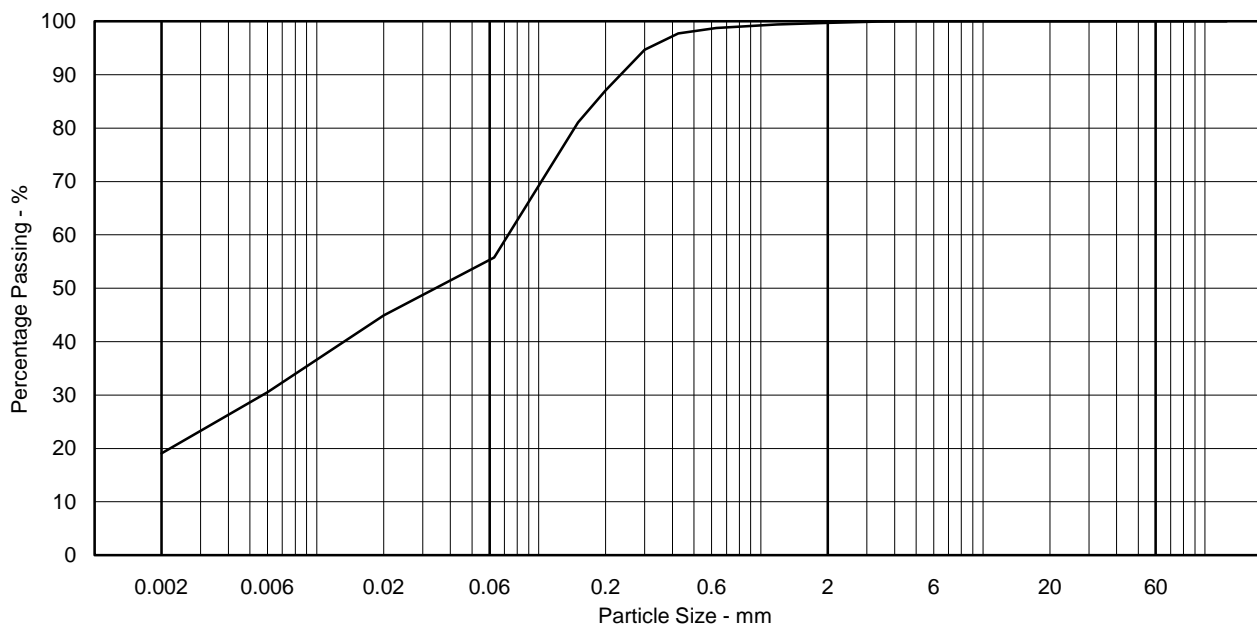
Non Engineering Description
Reddish brown sandy CLAY.

Sample Proportions - %	
Cobbles	0.0
Gravel	0.3
Sand	44.7
Silt	36.0
Clay	19.1

Particle Diameter - mm	
D100	5.0
D60	0.073
D10	
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	N/A

Notes
Sedimentation sample not pre-treated

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



Originator	Checked & Approved
SP SP	<i>Jan</i> 04/10/2022

PARTICLE SIZE DISTRIBUTION
 BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method
 BS EN ISO 17892-4 2016 Clause 5.4 - Pipette Method





SITE INVESTIGATION AND LABORATORY SERVICES

Site CHADWICH LANE QUARRY

Contract No **C7795**

Date Sampled 14/09/2022

Sample Ref PSD 1.2

Client Enviroarm Ltd

Engineer -

Sample Type BB

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	100
28.0 mm	100
20.0 mm	100
14.0 mm	100
10.0 mm	100
6.30 mm	100
5.00 mm	100
3.35 mm	100
2.00 mm	100
1.18 mm	100
630 µm	99
425 µm	98
300 µm	95
200 µm	89
150 µm	84
63 µm	64
20 µm	56
6 µm	35
2 µm	21

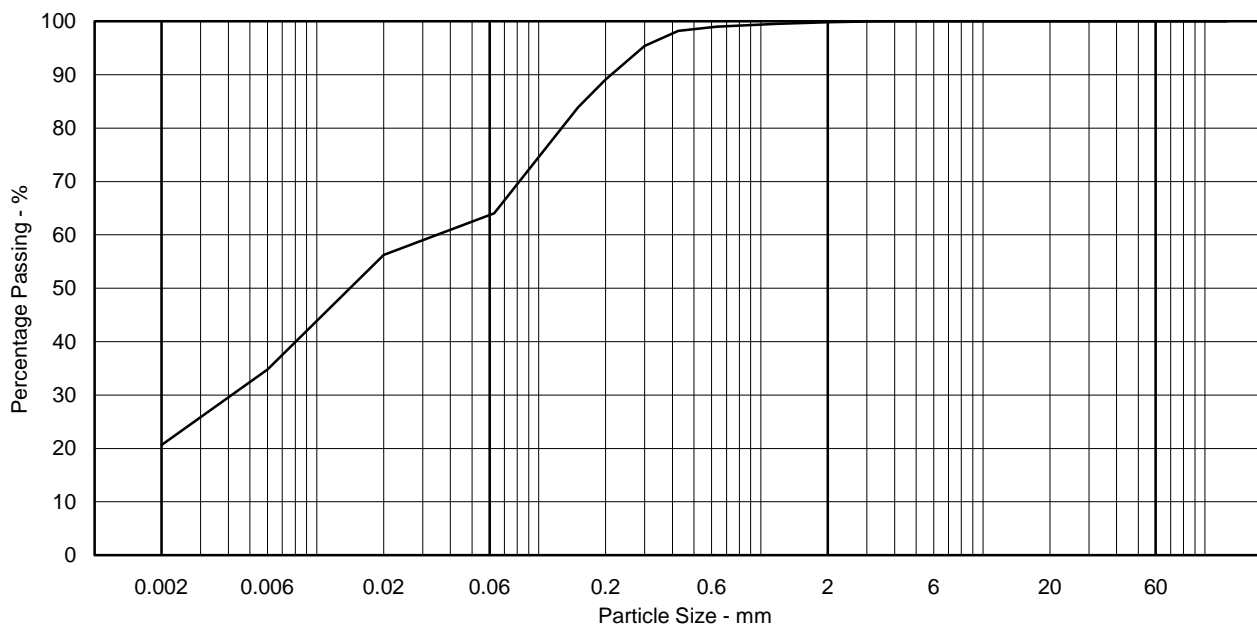
Non Engineering Description
Reddish brown slightly sandy CLAY.

Sample Proportions - %	
Cobbles	0.0
Gravel	0.1
Sand	36.4
Silt	42.8
Clay	20.6

Particle Diameter - mm	
D100	5.0
D60	0.035
D10	
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	N/A

Notes
Sedimentation sample not pre-treated

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



Originator	Checked & Approved
SP	<i>Jan</i>
SP	04/10/2022

PARTICLE SIZE DISTRIBUTION
 BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method
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