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BUREAU VERITAS

UKAS TESTING

TEST REPORT

Client:	MOULDING CONTRACTS LTD	**Report No:**	MDM0013313/1
Address:	ACCOUNTS & FINANCE DEPT RAINSBOROUGH BARNS CHARLTON BANBURY OXFORDSHIRE OX17 3DT	**Our Contract Ref:**	978880
		Your Ref:	Not given
		Report Date:	10 May 2007

Client Contact:

Site: **Norwood Farm**

Test Requested: **Determination of Moisture Content, Liquid and Plastic Limits and Plasticity Index**

Test Method: BS 1377-2 : 1990, Test Nos. 3.2; 4.4 (1 point LL); 5.3; 5.4

Sample Details:

Sampled by:	BV Struct Inv (MA)
Date Sampled:	Not given
Samples Submitted by:	BV Struct Inv (MA)
Certificate of Sampling received:	No
Date Received:	4 May 07
Date Tested:	8 May - 9 May 07

Results: See attached sheet

Comments: The percentage of material retained on 425µm sieve is estimated when test condition is natural; measured when washed.

Certified that the Moisture Content, Liquid and Plastic Limits and Plasticity Index were determined in accordance with BS 1377-2 : 1990

Signed: Kwaku Baah

Kwaku Baah - Section Manager - Soils & Materials
for and on behalf of Bureau Veritas Laboratories

ian.thompson@uk.bureauveritas.com

Form L.S103 ver.1 09/05

Client: MOULDING CONTRACTS LTD **Report No:** MDM0013313/1

Site: Norwood Farm **Report Date:** 10 May 2007

Determination of Moisture Content, Liquid and Plastic Limits and Plasticity Index

Test Results :

Sample Ref	Location	MC (%)	L.L (%)	P.L (%)	P.I. (%)	% Retained	Condition of test	Sample Type
10091210	1	30	79	27	52	0	Natural	Bulk Bag
10091211	2	29	74	28	46	0	Natural	Bulk Bag
10091212	3	32	74	28	46	0	Natural	Bulk Bag
10091213	4	30	N/A	N/A	N/A	N/A	N/A	Bulk Bag
10091214	5	30	N/A	N/A	N/A	N/A	N/A	Bulk Bag
10091215	6	31	N/A	N/A	N/A	N/A	N/A	Bulk Bag
10091216	7	29	N/A	N/A	N/A	N/A	N/A	Bulk Bag
10091217	8	30	N/A	N/A	N/A	N/A	N/A	Bulk Bag
10091218	9	28	N/A	N/A	N/A	N/A	N/A	Bulk Bag
10091219	10	27	N/A	N/A	N/A	N/A	N/A	Bulk Bag
10091220	11	29	N/A	N/A	N/A	N/A	N/A	Bulk Bag
10091221	12	32	N/A	N/A	N/A	N/A	N/A	Bulk Bag

Visual Descriptions:

Sample Ref	Location	Description
10091210	1	Brown CLAY
10091211	2	Brown CLAY
10091212	3	Brown CLAY
10091213	4	Brown CLAY
10091214	5	Brown CLAY
10091215	6	Brown CLAY
10091216	7	Brown CLAY
10091217	8	Brown CLAY
10091218	9	Brown CLAY
10091219	10	Brown CLAY
10091220	11	Brown CLAY
10091221	12	Brown CLAY

----------END OF TEST REPORT----------

Approved:

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0187

TEST REPORT

Determination of Undrained Shear Strength in Triaxial Compression
Test carried out in accordance with BS 1377-7: 1990, Clause 8

Client: Moulding Contrcts Limited
Address: Rainsborough Barns, Charlton, Banbury, Oxfordshire. OX17 3DT
Site: Norwood Farm
Client Ref: 978880

Report No. MDM0013313/91210
Report Date: 18/5/2007
Contract No.: 978880
Date samples rec'd: 4/5/2007

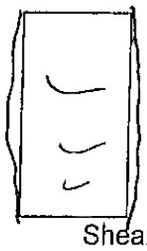
Sample Details and Test Results

Lab. Reference	10091210	10091212
Location	1	3
Diameter (mm)	100.0	99.6
Height (mm)	200.0	200.8
Bulk Density (Mg/m³)	1.84	1.80
Moisture Content (%)	29	38
Dry Density (Mg/m³)	1.42	1.31
Rate of Strain (%/min.)	1.02	0.99
Cell Pressure (kN/m²)	200	200
Strain at Failure (%)	14.2	10.9
Membrane Correction (kPa)		
Max. Deviator Stress (kN/m²)	329	103
Undrained Shear Stress (kN/m²)	164	52

Sample Description

Lab. Reference	
10091210	Grey CLAY
10091212	Brown CLAY

Failure Diagrams



Mode of Failure Shear Shear

Comments: Type of membrane used: Latex Thickness: 0.4mm
Test specimens prepared from undisturbed samples and maintaining sampling direction

Signed _____ K.D Baah - Section Manager
for and on behalf of Bureau Veritas Laboratories

S.9 ver.3 11/98

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0187

TEST REPORT

Our Ref: MDM0013313/1/KDB/cg
Contract: 978880
Date: 10 May 2007

TEST REPORT

Client: Moulding Contractors Ltd
Rainsborough Barns
Charlton
Banbury
Oxfordshire
OX17 3DT

Site: Norwood Farm

Test Requested: Particle Density

Sample Details: Bulk samples submitted by client

Date Samples Received: 04/05/07

Date Samples Tested: 09/05/07

Test Results & Visual Description

Laboratory Ref	Clients Ref	Particle Density Mg/m^3	Description
10091213	4	2.77	Grey CLAY
10091214	5	2.76	Grey CLAY
10091215	6	2.76	Grey CLAY

Test Method: BS 1377-2: 1990, Test No.8.3

Signed: K D Baah – Section Manager
for and on behalf of Bureau Veritas Laboratories

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TEST REPORT

DETERMINATION OF DRY DENSITY / MOISTURE RELATIONSHIP

Client: Moulding Contracts Limited
Address: Rainsborough Barns, Charlton,Banbury, Oxfordshire OX17
Scheme: Norwood Farm
Location: 10

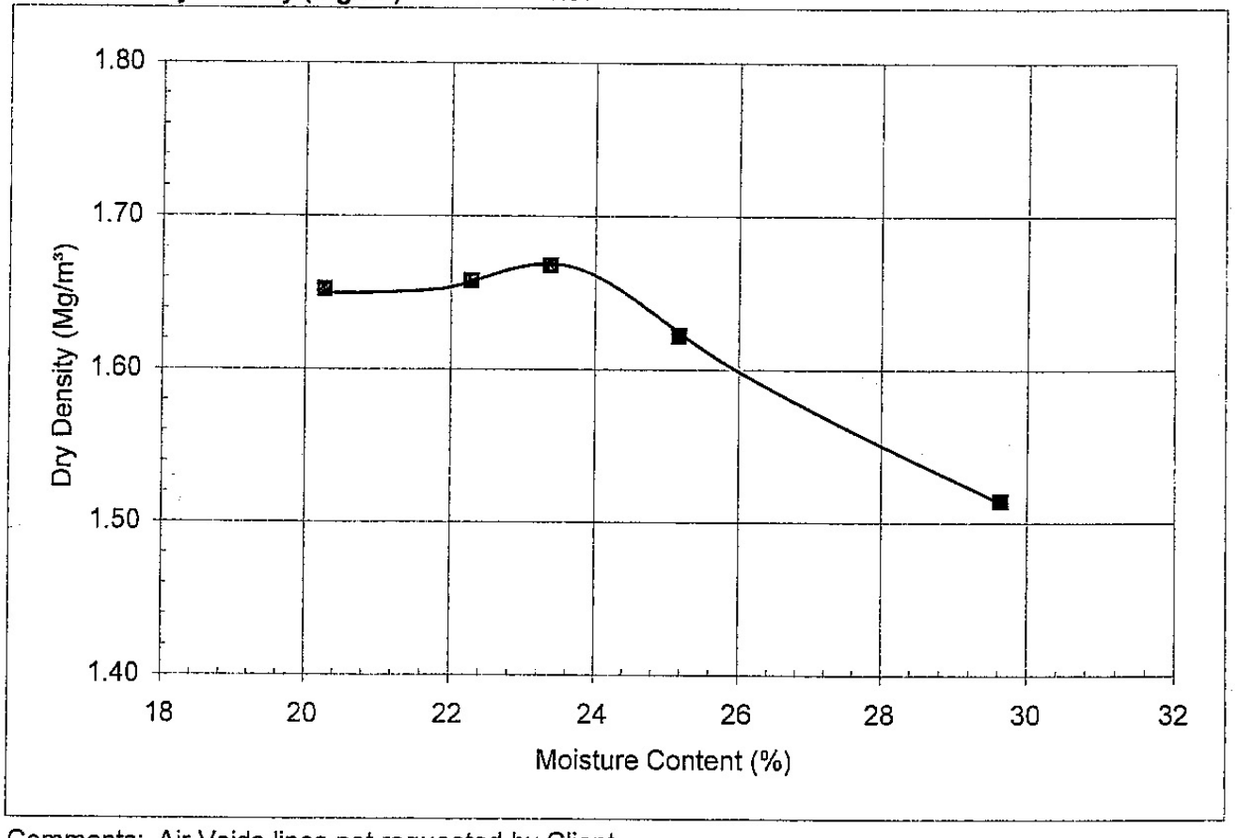
Report No. MDM10091219/1
Lab. Ref. 10091219
Date Reported: 31/5/2007
Date Tested: 23-29/05/2007
Date Received: 4/5/2007

Visual Description: Grey CLAY
Type of Sample: Bulk
Amount retained on: 20mm sieve: 0%

Specimen Type: Multiple
37.5mm sieve: 0%

As received moisture content (%): 30
Optimum Moisture Content (%) 23
Maximum Dry Density (Mg/m³) 1.67

Size of Test Mould: 1 litre
Mass of Rammer: 4.5 kg (Heavy)



Comments: Air Voids lines not requested by Client

Sample Preparation: In accordance with BS 1377:Parts 1 & 4:1990
Certified that the test was carried out in accordance with B.S. 1377 - 4 : 1990, Clause 3.5

Form S6.v6, 2/94

Signed _____ K D Baah - Section Manager
For and on behalf of Bureau Veritas Laboratories

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TEST REPORT

DETERMINATION OF DRY DENSITY / MOISTURE RELATIONSHIP

Client: Moulding Contracts Limited
Address: Rainsborough Barns, Charlton,Banbury, Oxfordshire OX17
Scheme: Norwood Farm
Location: 11

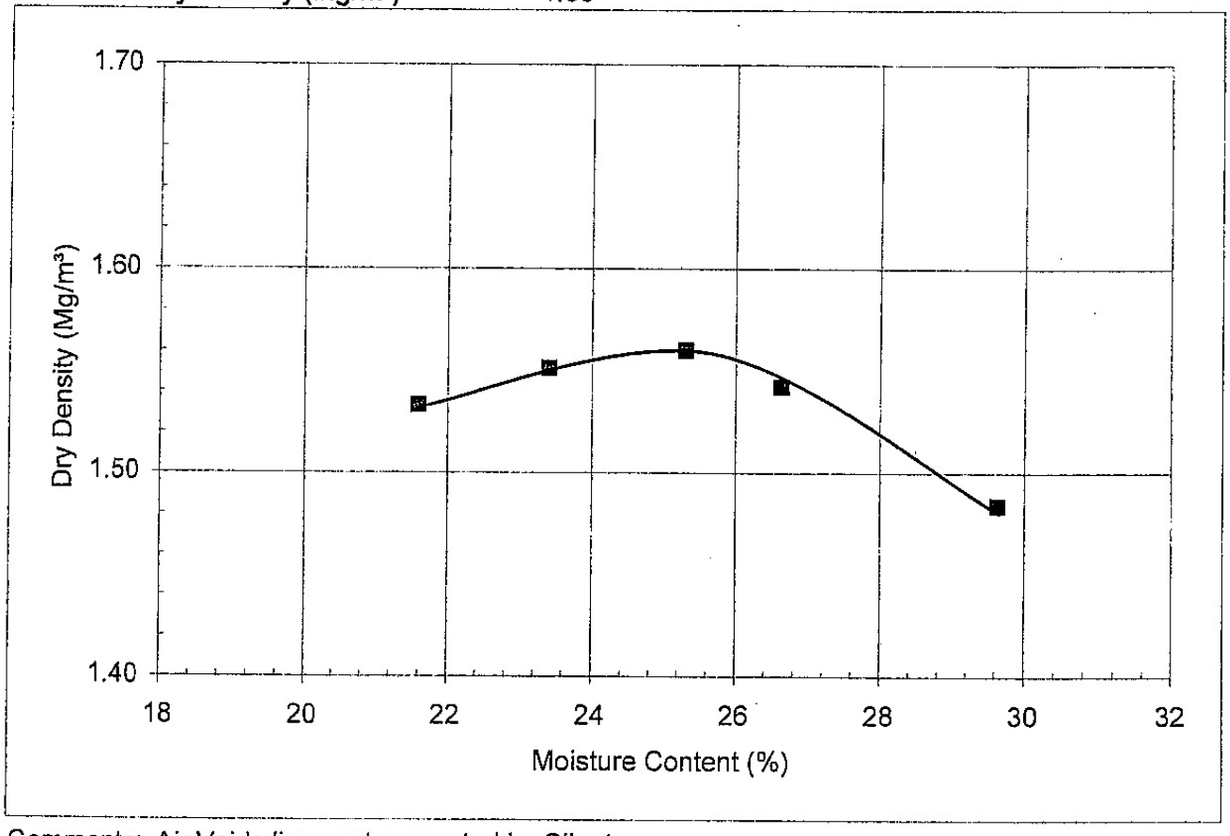
Report No. MDM10091220/1
Lab. Ref. 10091220
Date Reported: 31/5/2007
Date Tested: 23-29/05/2007
Date Received: 4/5/2007

Visual Description: Grey CLAY
Type of Sample: Bulk
Amount retained on: 20mm sieve: 0%

Specimen Type: Multiple
37.5mm sieve: 0%

As received moisture content (%): 30
Optimum Moisture Content (%) 25
Maximum Dry Density (Mg/m³) 1.56

Size of Test Mould: 1 litre
Mass of Rammer: 2.5 kg (Light)



Comments: Air Voids lines not requested by Client

Sample Preparation: In accordance with BS 1377:Parts 1 & 4:1990
Certified that the test was carried out in accordance with B.S. 1377 - 4 : 1990, Clause 3.3

Form S6.v6, 2/94

Signed K D Baah - Section Manager
For and on behalf of Bureau Veritas Laboratories

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0187

TEST REPORT

Client:	MOULDING CONTRACTS LTD	**Report No:**	MDM10091221/1
Address:	ACCOUNTS & FINANCE DEPT RAINSBOROUGH BARNS CHARLTON BANBURY OXFORDSHIRE OX17 3DT	**Our Contract Ref:**	978880
		Your Ref:	Not given
		Report Date:	24 May 2007

Client Contact: Not advised

Site: **Norwood Farm**

Test Requested: **Determination of Permeability in a Triaxial Cell**

Test Method: Permeability measured under constant head conditions in a trixial cell in accordance with Enviroment Agency R & D Technical Report P1-398/TR/2: Jan 2002 ('Accelerated' Method)

Sample Details:

Sampled by:	BV Struct Inv (MA)
Date Sampled:	Not given
Samples Submitted by:	BV Struct Inv (MA)
Certificate of Sampling received:	No
Date Received:	4 May 07
Clients Sample Reference:	12
Sample Type:	Bulk Bag
Location:	12
Date Tested:	9 May - 15 May 07

Results: See attached sheet

Visual Description: See attached sheet

Sample remoulded using 2.5kg rammer at as received moisture content

Certified that the Permeability was determined in accordance with Environment Agency R & D Technical Report P1-398/TR/2: Jan 2002

Signed:

Kwaku Baah - Section Manager - Soils & Materials
for and on behalf of Bureau Veritas Laboratories
ian.thompson@uk.bureauveritas.com

Form L.S602 ver.1 10/05

Client: MOULDING CONTRACTS **Report No:** MDM10091221/1

Site: Norwood Farm **Report Date:** 24 May 2007

Determination of Permeability in a Triaxial Cell

RESULTS SUMMARY

Sample Reference		10091221	
Location		12	
Depth		Not given	
		Final Conditions	Initial Conditions
Height	(mm)	116.3	115.7
Diameter	(mm)	105.1	105.0
Bulk Density	(Mg/m³)	1.90	1.86
Moisture Content	(%)	32	29
Dry Density	(Mg/m³)	1.43	1.44
Hydraulic Gradient		109.6	
Mean Effective Stress	(kPa)	187.5	
PERMEABILITY	**(m/s)**	**3.7E-11**	

Visual Description:

Sample Reference	Description
10091221	Brown CLAY

----------END OF TEST REPORT----------

Approved:

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TEST REPORT

PARTICLE SIZE DISTRIBUTION

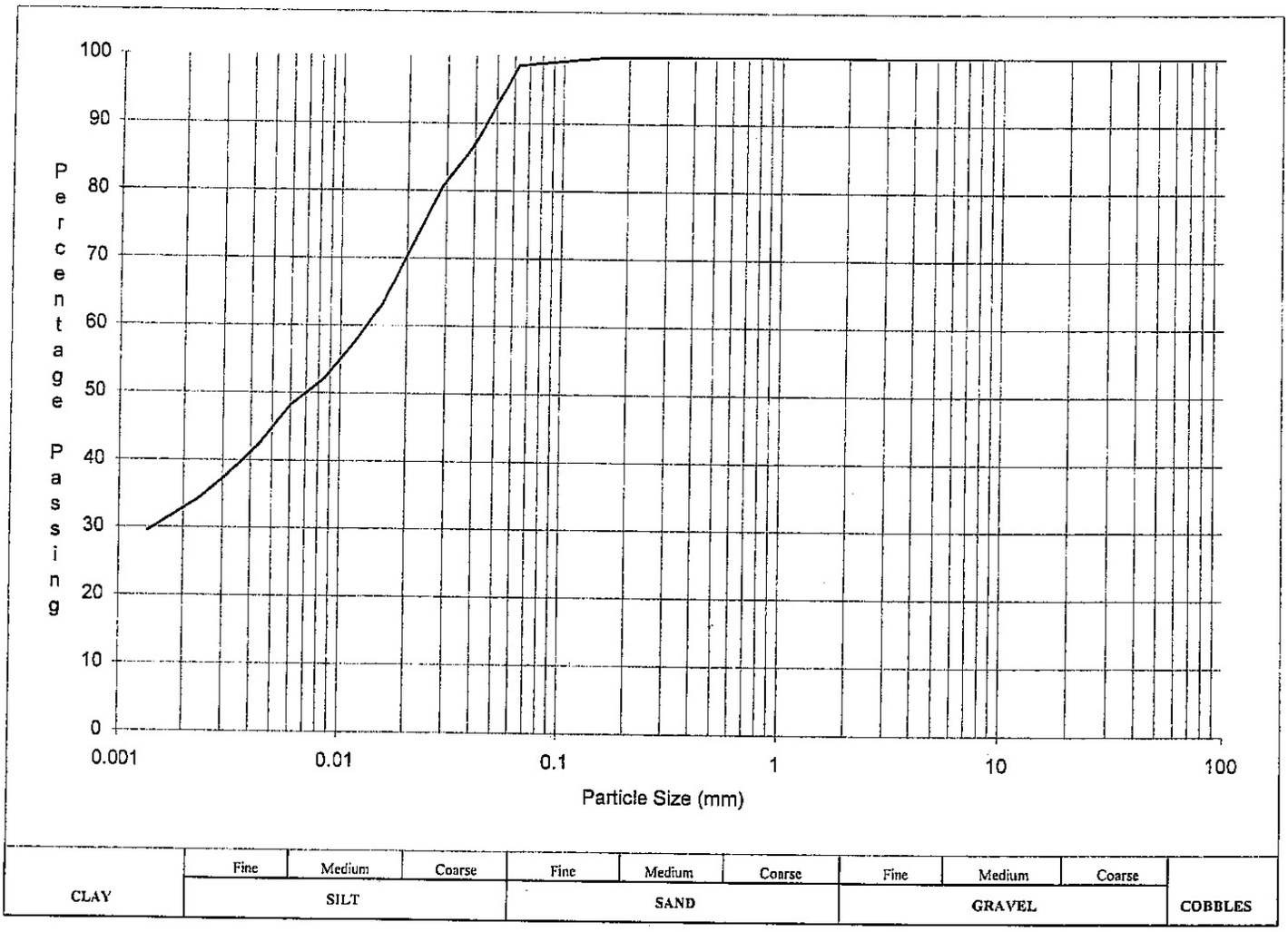
Test Method : BS 1377-2 : 1990 : Clauses 9.2 & 9.5

Client: Moulding Contracts Limited
Address: Rainsborough Barns, Charlton, Banbury, Oxfordshire OX17
Site: Norwood Farm
Location: 7
Visual Description : Grey CLAY

Report No: MDM10091216
Contract No: 978880
Bureau Veritas Ref : 10091216
Client Ref: 7

Preparation Method : In accordance with BS 1377-1:1990
Sample Type : Bulk
Assumed Particle Density: 2.70 Mg/m³

Date Received : 04/5/2007
Date Tested : 29/5/2007



Comments

Signed : _____ K D Baah - Section Manager
for and on behalf of Bureau Veritas Laboratories

Date Reported: 1/6/2007

Form S11 ver.5 4/00

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TEST REPORT

PARTICLE SIZE DISTRIBUTION

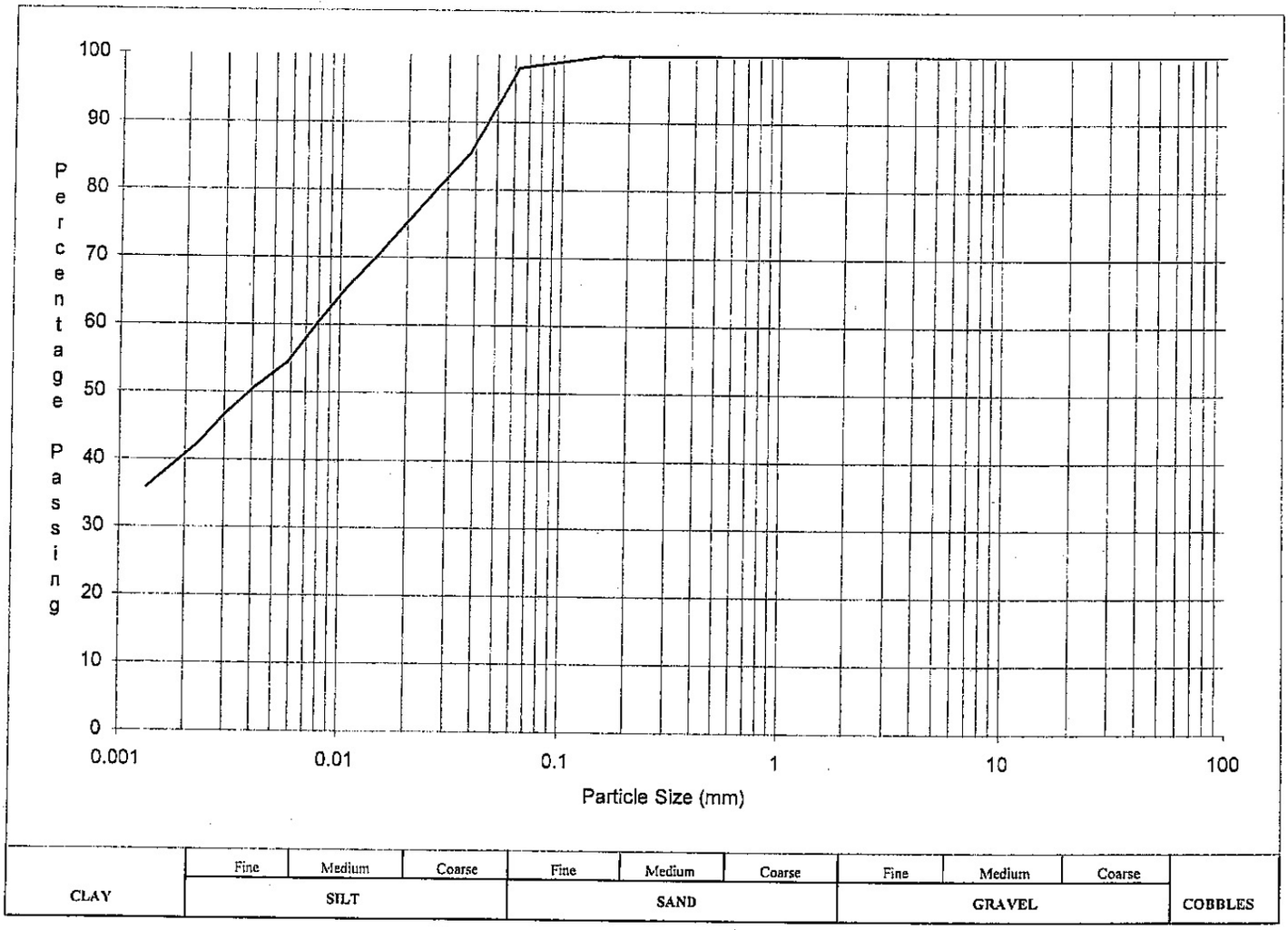
Test Method : BS 1377-2 : 1990 : Clauses 9.2 & 9.5

Client: Moulding Contracts Limited
Address: Rainsborough Barns, Charlton, Banbury, Oxfordshire OX17
Site: Norwood Farm
Location: 8
Visual Description : Grey CLAY

Report No: MDM10091217
Contract No: 978880
Bureau Veritas Ref : 10091217
Client Ref: 8

Preparation Method : In accordance with BS 1377-1:1990
Sample Type : Bulk
Assumed Particle Density: 2.70 Mg/m³

Date Received : 04/5/2007
Date Tested : 29/5/2007



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	SILT			SAND			GRAVEL			

Comments :

Signed : _____ K D Baah - Section Manager
for and on behalf of Bureau Veritas Laboratories

Date Reported: 1/6/2007

Form S11 ver.5 4/00

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TEST REPORT

PARTICLE SIZE DISTRIBUTION

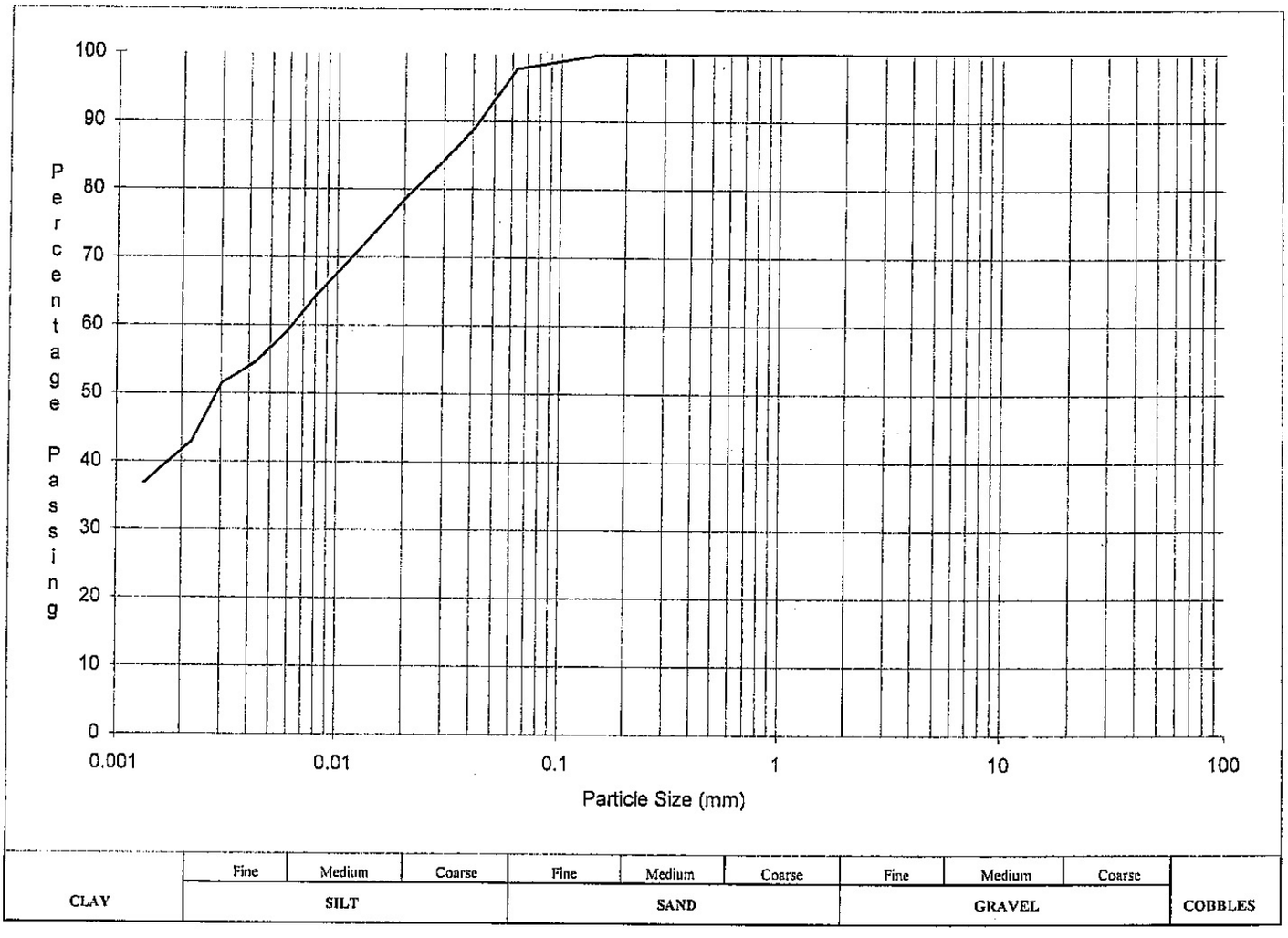
Test Method : BS 1377-2 : 1990 : Clauses 9.2 & 9.5

Client: Moulding Contracts Limited
Address: Rainsborough Barns, Charlton, Banbury, Oxfordshire OX17
Site: Norwood Farm
Location: 9
Visual Description : Grey CLAY

Report No: MDM10091218
Contract No: 978880
Bureau Veritas Ref : 10091218
Client Ref: 9

Preparation Method : In accordance with BS 1377-1:1990
Sample Type : Bulk
Assumed Particle Density: 2.70 Mg/m³

Date Received : 04/5/2007
Date Tested : 29/5/2007



CLAY	SILT			SAND			GRAVEL			COBBLES
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	

Comments :

Signed : _____ K D Baah - Section Manager
for and on behalf of Bureau Veritas Laboratories

Date Reported: 1/6/2007

Form S11 ver.5 4/00