SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

						9									5			
	đ														a a	٠		
									8		*		z		d	·	*):	
	Sample				-			2		a					-		,	
	Description of Sample	is fine to medium		fine to medium	×			4							٠			
		Dark brown sandy gravelly CLAY. Gravel is fine to medium	8	Dark brown sandy gravelly SILT. Gravel is fine to medium						٥						v St		
		Dark brown s		Dark brown s	£			G G	s ,	4	Ŷ			स स		*		
	% <425um	61		54				*						1				
	Plasticity Index %	28	e e	18	2				8									
8	Plastic Limit	23		32				10							· ·			
	Liquid Limit %	51		50	700			a 20				# C					QK.	
	Moisture Content	31		32		z,	8		2								٠	
	Depth (m)	2.40	19	3.40					2 F					25			В	
	Sample Type	Q		D									x					
	Sample Ref															-		
	Exploratory Position ID	BH2		BH3														

Contract:

Mill Pond Site, Dartford

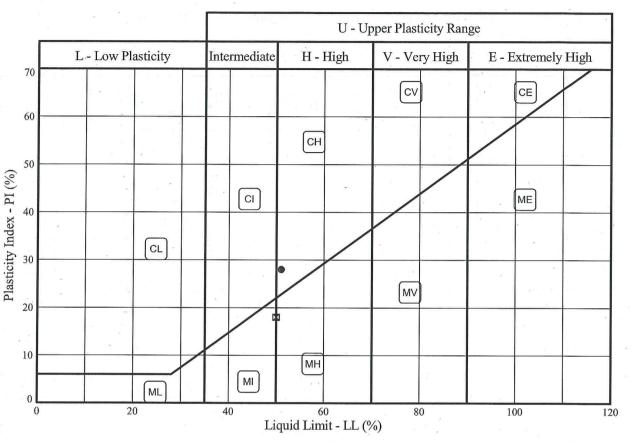
582899

Contract Ref:

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GINT_LIBRARY_V8_05.GLB:L-SUMMARY OF CLASSIFICATION TESTS EC7:582899 MILL POND SITE, DARTFORD - RSK 27265.GPJ:28/08/14 08:29:JB

PLASTICITY CHART - PI Vs LL
In accordance with clause 42.3 of BS5930:1999
Testing in accordance with BS1377-2:1990



	Sample Identification			ample Identification BS Test Preparation					PI	<425um	
	Exploratory Position ID	Sample	Depth (m)	Method #	Preparation Method +	.%	%	%	. %	%	
	BH2	D	2.40	3.2/4.4/5.3/5.4	4.2.4	31	51	23	28	61	П
	ВН3	D	3.40	3.2/4.4/5.3/5.4	4.2.4	32	50	32	18	54	П
	V F										П
											П
П											П
		+ 2						4;	be .		П
Ш					7,		*				П
			4	. 8							П
				//2							П
- 0				@F							П
				*		4		-	-		П
				2						2	
	B			2 2	n.	5.					П

Tested in accordance with the following clauses of BS1377-2:1990.

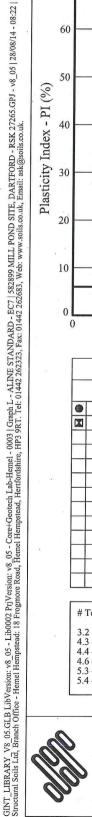
- Moisture Content
- 4.3 Cone Penetrometer Method
 4.4 One Point Cone Penetrometer Method
- 4.6 One Point Casagrande Method 5.3 Plastic Limit Method
- 5.4 Plasticity Index

- + Tested in accordance with the following clauses of BS1377-2:1990.
- 4.2.3 Natural State

Key: *= Non standard test, NP = Non plastic.

Compiled By

Approved Signatories: D. TROWBRIDGE J. BARRETT A. FROST S. CAIRNS



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JUSTIN BARRETT Contract Ref:

28/08/14

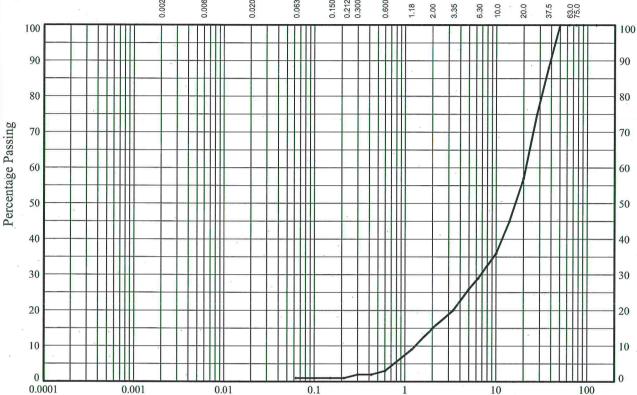
Date

Contract Mill Pond Site, Dartford



In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : BH1A Sample Ref: Sample Type: D Depth (m): 2.60



CT AY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
CLAY		SILT		,	SAND	8		GRAVEL	,	COBBLES

BS Test	Percentage
Sieve (mm)	Passing
125	100
90	100
75	100
63	100
50	100
37.5	88
28	75
20	57
14	45
10	. 36
6.3	29
5	26
3.35	20
2	15
1.18	9
0.6	3 2 2
0.425	2
0.3	2
0.212	1
0.15	1
0.063	1

Particle	Percentage
Diameter	Passing
	- 1
191	
	- 1
	-
*	

Soil	Sieve
Fraction	Percentage
GRAVEL	85
SAND	14
SILT/CLAY	1

Soil Description:

Yellowish brown sandy GRAVEL with rare pockets of clay

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Date 28/08/14

Mill Pond Site, Dartford

Contract Ref:

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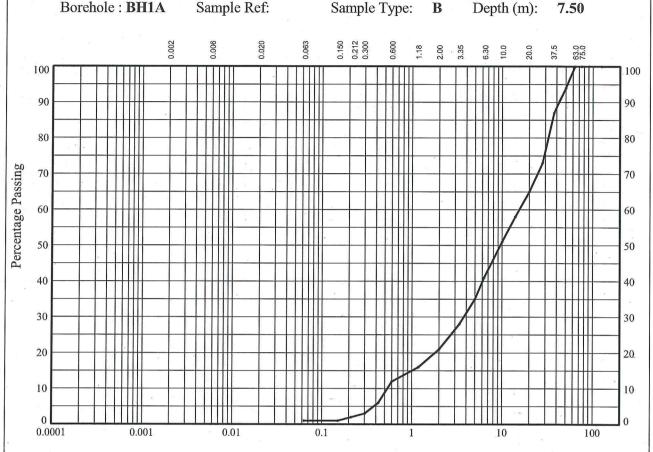
Borehole: BH1A

Sample Ref:

Sample Type:

Depth (m):

7.50



CLAV	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	CODDI EG
CLAT		SILT			SAND			GRAVEL	,	COBBLES

BS Test	Percentage
Sieve (mm)	Passing
125	100
90	100
75	100
63	100
50	94
37.5	87
28	73
20	- 65
14	. 58
10	51
6.3	41
5	35
3.35	28
2	21
1.18	16
0.6	12
0.425	6
0.3	3
0.212	2
0.15	1
0.063	1

Percentage
Passing

Soil	Sieve				
Fraction	Percentage				
GRAVEL	79				
SAND	20				
SILT/CLAY	1				

Soil Description:

Yellowish brown slightly clayey sandy GRAVEL

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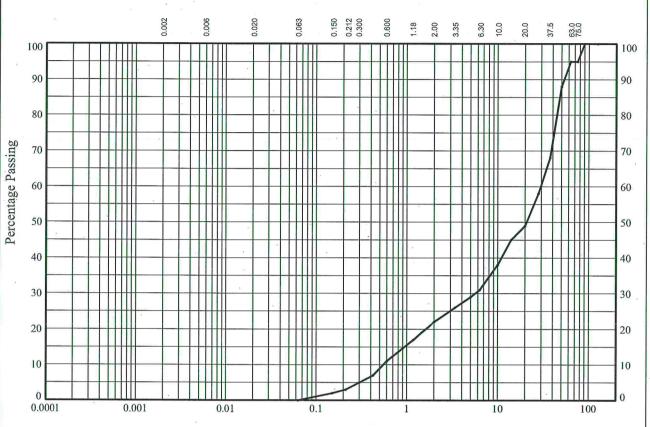
28/08/14

Mill Pond Site, Dartford

Contract Ref:

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole: BH1A Sample Ref: Sample Type: B Depth (m): 13.50



CLAV	fine	medium	coarse	fine	medium	coarse	fine medium coarse			COPPLES
CLAT		SILT	14		SAND		·	GRAVEL		COBBLES

ADMINISTRATION OF THE PARTY OF	Contract Con
BS Test	Percentage
Sieve (mm)	Passing
125	100
90	100
75	95
63	95
50	88
37.5	68
28	. 58
20	49
14	45
10	38
6.3	31
5	29
3.35	26
2	22
1.18	17
0.6	11
0.425	7
0.3	5
0.212	5 3 2 0
0.15	2
0.063	0

Particle	Percentage
Diameter	Passing
4	
9	

Soil	Sieve
Fraction	Percentage
COBBLES	5
GRAVEL	73
SAND	22
SILT/CLAY	0
S E	

Soil Description:

Yellowish brown very sandy GRAVEL with a low cobble content

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Mill Pond Site, Dartford

Contract Ref:



In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

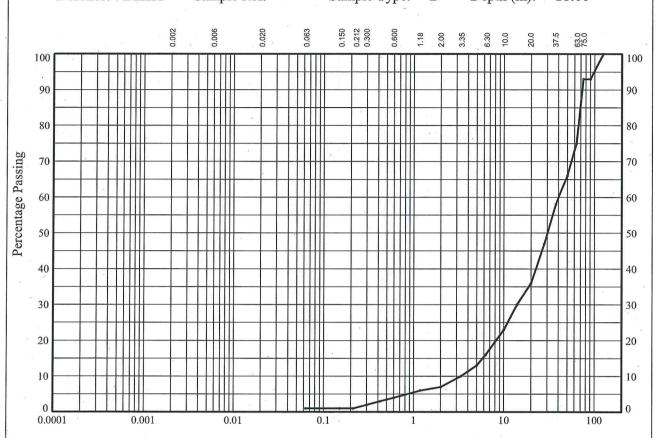
Borehole: BH1A

Sample Ref:

Sample Type:

Depth (m):

18.00



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	CODDITE	
		SILT		I	SAND			GRAVEL	,	COBBLES	

	v
BS Test	Percentage
Sieve (mm)	Passing
125	100
90	93
75	93
63	75
50	66
37.5	58
28	47
20	
	36
14	30
10	23
6.3	16
5	13
3.35	10
2	7
1.18	6
0.6	4
0.425	3
0.3	2
0.212	1
0.15	î
0.063	i
0.003	1

Particle Diameter	Percentage Passing
,	
& =	

Soil	Sieve
Fraction	Percentage
COBBLES	25
GRAVEL .	68
SAND	6
SILT/CLAY	1
	8

Soil Description:

Yellowish brown slightly clayey sandy GRAVEL with a high cobble content

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Mill Pond Site, Dartford

Contract Ref:



In accordance with clauses 9.2,9.4 of BS1377:Part 2:1990 NON STANDARD TEST

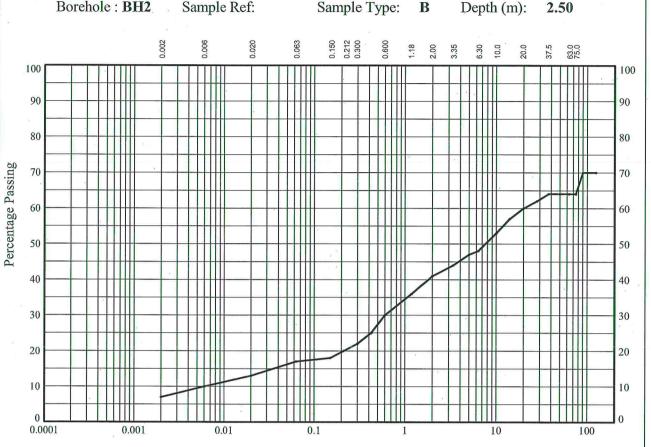
Borehole: BH2

Sample Ref:

Sample Type:

Depth (m):

2.50



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	CORRIEG
	SILT		SILT SAND GRAVEL				CORRLES			

BS Test	Percentage				
Sieve (mm)	Passing				
125	70				
90	70				
75	64				
63	64				
50	64				
37.5	64				
28	62				
20	60				
14	57				
10	53				
6.3	48				
5	47				
3.35	44				
2	41				
1.18	36				
0.6	30				
0.425	25				
0.3	22				
0.212	20				
0.15	18				
0.063	17				

Particle	Percentage
Diameter	Passing
0.02	13
0.006	10
0.002	7
	1

Soil	Sieve
Fraction	Percentage
COBBLES	36
GRAVEL	23
SAND	24
SILT	10
CLAY	7
	5

Soil Description:

Dark brown clayey silty sandy GRAVEL with a high cobble content. Made ground

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582899



Date

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

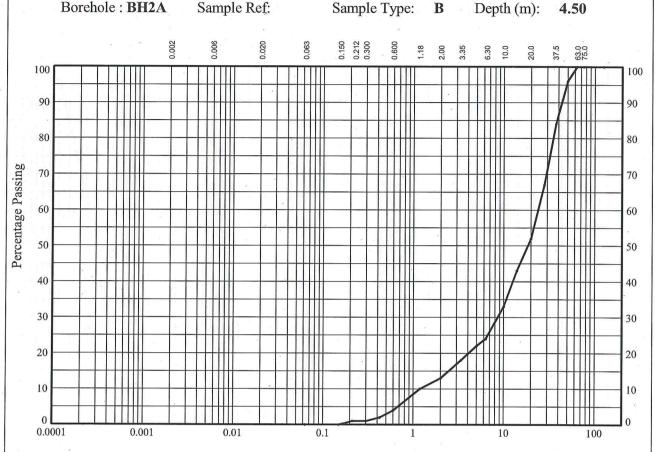
Borehole: BH2A

Sample Ref:

Sample Type:

Depth (m):

4.50



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	CODDIES
		SILT			SAND			GRAVEI	,	COBBLES

BS Test	Percentage
Sieve (mm)	Passing
125	100
90	100
75	100
63	100
50	96
37.5	84
28	67
20	52
14	43
10	33
6.3	24
5	22
3.35	18
2	13
1.18	10
0.6	4
0.425	2
0.3	1
0.212	1
0.15	0
0.063	0

Particle	Percentage
Diameter	Passing
	*
	a.

Soil	Sieve				
Fraction	Percentage				
GRAVEL	87				
SAND	13				
SILT/CLAY	.0				

Soil Description:

Dark brown sandy GRAVEL

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Mill Pond Site, Dartford

Contract Ref:



0.0001

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole: BH2A Sample Ref: Sample Type: Depth (m): 10.50 B 0.212 100 100 90 90 80 80 Percentage Passing 70 70 60 60 50 50 40 40 30 30 20 20 10 10

CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COPPLES
CLAY		SILT		1270	SAND			GRAVEL	J	COBBLES

BS Test	Percentage
Sieve (mm)	Passing
125	100
90	100
75	100
63	100
50	100
37.5	. 95
28	80
20	65
. 14	49
10	40
6.3	32
5	27
3.35	22
2	17
1.18	14
0.6	9
0.425	6
0.3	4
0.212	4 2 2
0.15	
0.063	1

0.001

Particle	Percentage
Diameter	Passing
j.	
	-

1	Soil	Sieve
	Fraction	Percentage
	GRAVEL	83
	SAND	16
	SILT/CLAY	1

Soil Description:

Dark yellowish brown slightly clayey sandy GRAVEL

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 Date

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 28/08/14

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 Contract Ref:

Mill Pond Site, Dartford

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In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990 NON STANDARD TEST

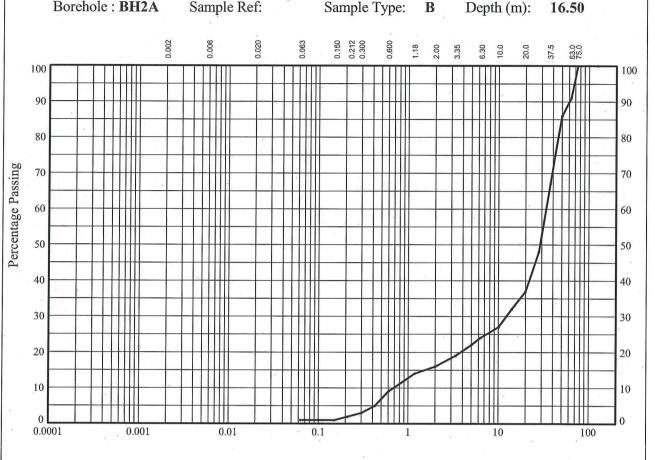
Borehole: BH2A

Sample Ref:

Sample Type:

Depth (m):

16.50



CLAV	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	CODDIES
CLAT		SILT			SAND	28 · =		GRAVEL	, -	CORRES

BS Test	Percentage
Sieve (mm)	Passing
125	100
90	100
75	100
63	91
50	86
37.5	67
28	48
20	37
14	32
10	27
6.3	24
5	22
3.35	19
2	16
1.18	14
0.6	9
0.425	5
0.3	3
0.212	5 3 2
0.15	1
0.063	1

Percentage
Passing
181

Soil	Sieve				
Fraction	Percentage				
=	5				
COBBLES	9				
GRAVEL	75				
SAND	15				
SILT/CLAY	1				

Soil Description:

Yellowish brown slightly clayey sandy GRAVEL with a medium cobble content

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Contract	Contract Ref:

Mill Pond Site, Dartford

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0.0001

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole: BH2A Sample Ref: Sample Type: B Depth (m): 19.50 0.150 0.212 0.300 100 100 90 90 80 80 Percentage Passing 70 70 60 50 50 40 40 30 30 20 20 10 10

CLAV	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	CODDI EG
CLAT		SILT			SAND			GRAVEL	,	COBBLES

BS Test	Percentage
Sieve (mm)	Passing
125	100
90	100
75	100
63	100
50	90
37.5	72
28	46
20	34
14	26
10	23
6.3	19
5	- 19
3.35	17
2	16
1.18	15
0.6	12
0.425	9
0.3	9 5 2
0.212	2
0.15	1
0.063	0

0.001

0.01

Percentage
Passing
g

Soil	Sieve
Fraction	Percentage
GRAVEL	84
SAND	16
SILT/CLAY	0

Soil Description:

Yellowish brown sandy GRAVEL

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Mill Pond Site, Dartford

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100

In accordance with clauses 9.2,9.4 of BS1377:Part 2:1990

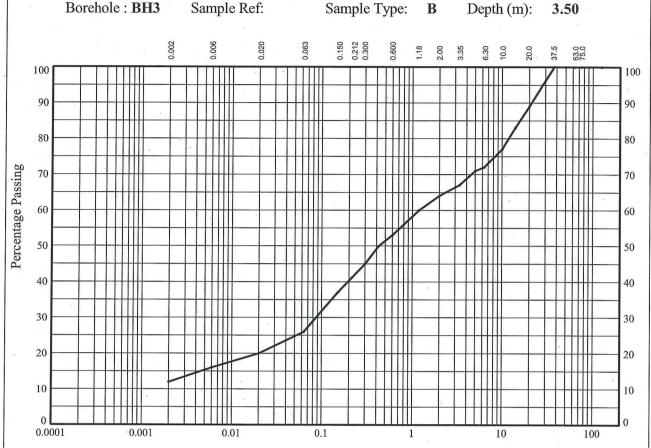
Borehole: BH3

Sample Ref:

Sample Type:

Depth (m):

3.50



CLAV	V	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	CORRIGO
CLF	7.1		SILT			SAND			GRAVEI	,	COBBLES

BS Test	Percentage
Sieve (mm)	Passing
125	100
90	100
75	100
63	100
50	100
37.5	100
28	95
20	89
14	83
10	77
6.3	72
5	71
3.35	67
2	64
1.18	60
0.6	53
0.425	50
0.3	45
0.212	41
0.15	37
0.063	26

2	Particle Diameter	Percentage Passing
	0.02	20
	0.006	16
	0.002	12
- 1		

Soil	Sieve
Fraction	Percentage
GRAVEL	36
SAND	38
SILT	14
CLAY	12
= 5	

Soil Description:

Very dark brown gravelly very clayey very silty SAND

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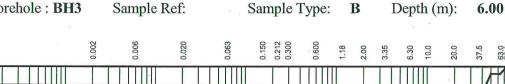
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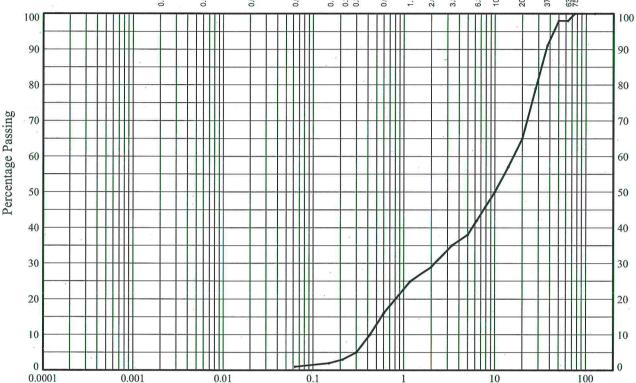


Date

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole: **BH3** Sample Ref: Sample Type: **B** Depth





CLAV	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	CODDIES
CLAT		SILT			SAND		(GRAVEL	,	COBBLES

BS Test	Percentage
Sieve (mm)	Passing
125	100
90	100
75	100
63	98
50	98
37.5	. 91
28	79
20	65
14	57
10	50
6.3	42
5	38
3.35	35
2	29
. 1.18	25
0.6	16
0.425	10
0.3	5
0.212	3 2
0.15	
0.063	1

Particle	Percentage
Diameter	Passing
Nev .	

Soil	Sieve
Fraction	Percentage
COBBLES	2
GRAVEL	69
SAND	28
SILT/CLAY	1
	*

Soil Description:

Orangish brown slightly clayey very sandy GRAVEL with a low cobbble content

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Hertfordshire
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In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

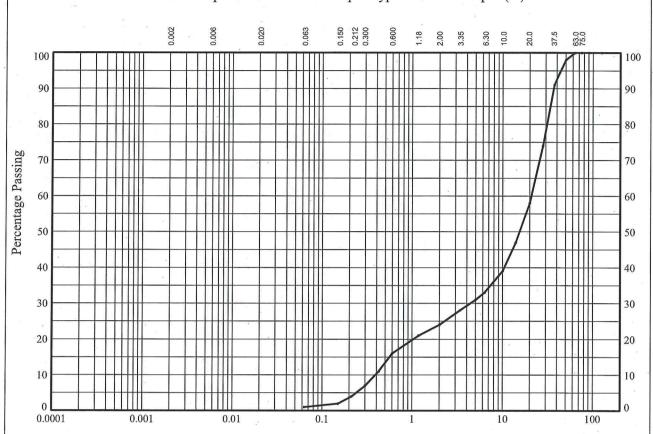
Borehole: BH3

Sample Ref:

Sample Type:

B Depth (m):

12.10



CLAV	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	CODDIES
CLAI		SILT	302		SAND	*		GRAVEI	,	COBBLES

BS Test	Percentage
Sieve (mm)	Passing
125	100
90	100
75	100
63	100
50	98
37.5	91
28	74
20	58
14	47
10	39
6.3	33
5	31
3.35	28
2	24
1.18	21
0.6	16
0.425	11
0.3	7
0.212	4
0.15	2
0.063	1

Particle	Percentage				
Diameter	Passing				
	>				

Soil	Sieve					
Fraction	Percentage					
GRAVEL	76					
SAND	23					
SILT/CLAY	1					

Soil Description:

Dark brown slightly clayey very sandy GRAVEL

Mill Pond Site, Dartford

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Contract Ref:

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Date

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

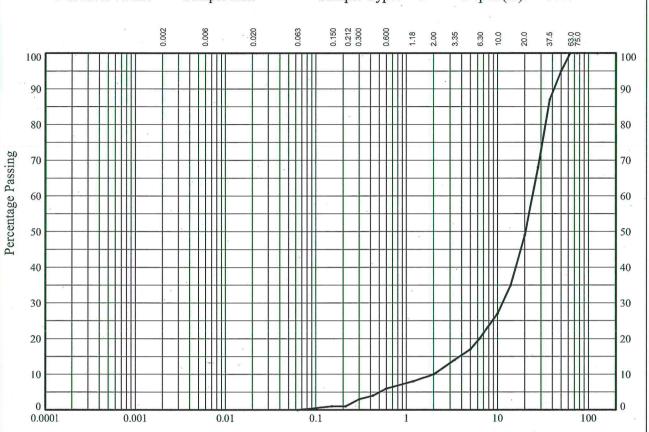
Borehole: BH4

Sample Ref:

Sample Type:

B Depth (m):

3.40



CLAV	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	CODDI EG
CLAT		SILT			SAND		. (GRAVEL	,	COBBLES

BS Test	Percentage
Sieve (mm)	Passing
125	100
90	100
75	100
63	100
50	95
37.5	87
28	68
20	49
14	35
10	27
6.3	20
5	17
3.35	14
2	10
1.18	8
0.6	6
0.425	4
0.3	3
0.212	1
0.15	1
0.063	0

Particle	Percentage
Diameter	Passing
	*
	,

Soil	Sieve					
Fraction	Percentage					
GRAVEL	90					
SAND	10					
SILT/CLAY	0					

Soil Description:

Brown sandy GRAVEL

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Contract Ref:

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Date

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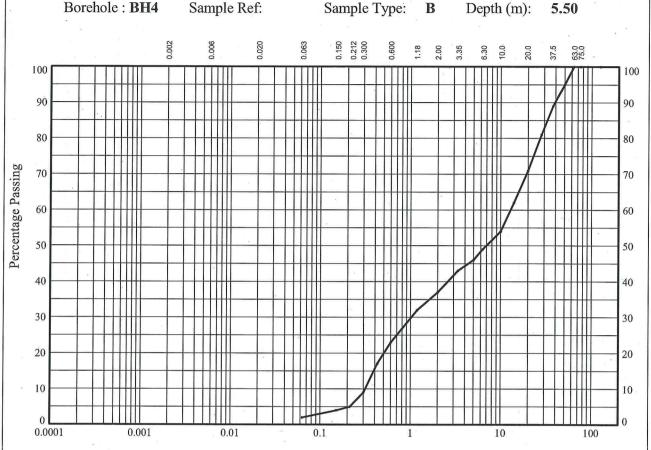
Borehole: BH4

Sample Ref:

Sample Type:

Depth (m):

5.50



CLAV	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	CODDIES
CLAT	SILT		SAND				GRAVEI	,	COBBLES	

BS Test	Percentage
Sieve (mm)	Passing
125	100
90	100
75	100
63	100
50	95
37.5	89
28	81
20	71
14	62
10	54
6.3	49
5	46
3.35	43
2	37
1.18	32
0.6	23
0.425	17
0.3	
0.212	9 5 4 2
0.15	4
0.063	2

Particle	Percentage
Diameter	Passing
9	
	-
_	e.
1 27	
9	

Soil	Sieve				
Fraction	Percentage				
GRAVEL	63				
SAND	35				
SILT/CLAY	2				

Soil Description:

Yellowish brown slightly clayey very sandy GRAVEL

Approved Signatories: D. TROWBRIDGE J. BARRETT A. FROST S. CAIRNS

STRUCTURAL SOILS 18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT

Compiled By Date 50 SHARON CAIRNS 28/08/14 Contract

Mill Pond Site, Dartford

Contract Ref:



SUMMARY OF SMC (SATURATED MOISTURE CONTENT) TESTS In accordance with clause 3.3 of BS1377:Part 2:1990

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		Off-white CHALK	W.	Off-white CHALK			5				26			× e		S	,	
	Saturated Moisture Content %	26		30					-			Şz		94				**
	Dry Density Mg/m³	1.59	0	1.50						4				ä				
	Bulk Density Mg/m³	2.00		1.93			×					×						11.4%
	Moisture Content %	26		29				-	,					e			,	
	Depth (m)	19.60		12.40	li li		ii					2						
	Sample Type	В		D									0					
	Sample Ref																	
	Exploratory Position ID	BH1A	۰	BH4		12									+ .		,	

Approved Signatories: D. TROWBRIDGE J. BARRETT A. FROST S. CAIRNS

AGS

582899 Contract Ref: 28.08.14 JUSTIN BARRETT Mill Pond Site, Dartford Compiled By Contract: STRUCTURAL SOILS
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT

GINT_LIBRARY_V8_05.GLB: L - SUMMARY OF SMC TESTS: 582899 MILL POND SITE, DARTFORD - RSK 27265.GPJ: 28/08/14 08:33: JB



FINAL ANALYTICAL TEST REPORT

Envirolab Job Number:

14/04324

Issue Number:

- 1

Date: 21 August, 2014

Client:

Structural Soils Hemel Hempstead Lab

18 Frogmore Road Hemel Hempstead

UK

HP3 9RT

Project Manager:

Sharon Cairnes / Paul Carroll / Justin Barrett

Project Name:

Mill Pond Site, Dartford

Project Ref:

27265

Order No:

N/A

Date Samples Received:

18/08/14

Date Instructions Received:

18/08/14

Date Analysis Completed:

20/08/14

Prepared by:

Approved by:

Gill Scott

Laboratory Manager

Iain Haslock

Analytical Consultant





Page 1 of 3



Envirolab Job Number: 14/04324

Client Project Name: Mill Pond Site, Dartford

Client Project Ref: 27265

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Lab Sample ID	14/04324/1	14/04324/2	14/04324/3	14/04324/4	14/04324/5	14/04324/6	14/04324/7			
Client Sample No	1	6 BH1A	16 BH1A	10 BH2A	11 BH3	2 BH4	12 BH4	· · · · · · · · · · · · · · · · · · ·		
Client Sample ID	BH1A								1	
Depth to Top	0.00	5.40	19.50	14.90	13.40	1.40	13.90			STS
Depth To Bottom	0.40			a a						
Date Sampled		*		9			1,	H		-
Sample Type	Solid	Solid	Solid	Soil - D	Solid	Soil - D	Solid .			Method ref
MCERTS Sample Matrix Code	7	7	7	1A	7	4A	.7		Units	Meth
% Stones >10mm _A #	<0.1	<0.1	<0.1	24.9	<0.1	21.9	<0.1		% w/w	A-T-044
pH BRE _p M#	12.56	10.46	9.29	9.08	8.94	10.60	9.07		pН	A-T-031s
Sulphate BRE (water sol 2:1) _D ^{M#}	<10	35	18	<10	<10	131	19	10.000	mg/l	A-T-026s



REPORT NOTES

Notes - Soil chemical analysis

All results are reported as dry weight (<40 °C).

For samples with Matrix Codes 1 - 6 natural stones > 10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis. For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts.

Superscript "M" indicates method accredited to MCERTS.

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations. If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

TPH analysis of water by method A-T-007

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Asbestos in soil

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if present as discrete fibres/fragments. Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified a being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER. Samples with Matrix Code 7 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.