CONSULTANCY, SITE INVESTIGATION CONSTRUCTION MATERIALS TESTING, CONTAMINATED LAND SURVEYS, DESK STUDIES, RISK ASSESSMENT.



REPORT ON A GROUND INVESTIGATION AT

97 CAMDEN MEWS LONDON NW1 9BU

Report No:

171581

Date:

October 2017





CONTENTS

Subject	Section	Page
Introduction	1	1
Details of Fieldwork	2	1
General Geology	3	1
Groundwater	4	2
Laboratory Testing	5	2
Conclusions	6	2/3
References	7	3

APPENDICES

Appendix A	Borehole Location Plan
Appendix B	Borehole Logs
Appendix C	Moisture Content / Atterberg Limit Test Results

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REPORT ON A GROUND INVESTIGATION AT 97 CAMDEN MEWS, LONDON NW1 9BU

1 INTRODUCTION

- 1.1 This report has been prepared for Paul Simon Developments Ltd, Magic House, 5-11 Green Lanes, London N13 4TN.
- 1.2 Our brief for the investigation was to:
 - a) Construct six boreholes with associated sampling and in situ testing
 - b) Laboratory testing for soil classification
 - c) Undertake six suites of contamination analysis (see separate report)
 - d) Carry out Gas Monitoring (see separate report)
 - e) Produce a Desk Study of the site history (see separate report)

2 DETAILS OF FIELD WORK

- 2.1 The field work comprised the construction of six boreholes and contamination sampling at the positions indicated in appendix A.
- 2.2 Soil samples were recovered at regular intervals, sealed in airtight containers and transported to the laboratory for testing and detailed descriptions.
- 2.3 Water level observations were made and noted on the borehole logs.
- 2.4 The field work was carried out on the 21st and 22nd September 2017.

3 GENERAL GEOLOGY AND REVEALED STRATUM

- 3.1 The boreholes proved Concrete or Made Ground to depths of 0.18m 0.40m, over soft to firm or firm to stiff Clay with stiff to very stiff Clay being penetrated at depths of 1.70m (BH 1), 2.10m (BH 2) and 1.70m (BH 4).
- 3.2 Details of the soil stratum, sample depths and in situ test results are given in appendix B.
- 3.3 The 1:50,000 scale geological map indicates the natural deposits of the area to be London Clay.

97 Camden Mews, London NW1 9BU

4 GROUNDWATER

4.1 The boreholes remained dry throughout the construction period and immediately upon completion. Piezometers and Gas Wells were installed in BH's 1 and 2 to allow long term monitoring.

5 LABORATORY TESTING

- 5.1 The recovered soil samples were tested for moisture levels together with six Atterberg Limit determinations.
- 5.2 The results are tabulated in appendix C, categorising the Clay elements to be of high plasticity (Plasticity Index 38% 42%).
- 5.3 Although this is indicative of a high potential susceptibility to moisture related cyclic volume change, there were no indications of desiccation within the samples tested.

6 CONCLUSIONS

- $6.1 \qquad \hbox{The findings of the boreholes indicate natural ground from depths of } 0.18m-0.40m \\ \hbox{in the form of London Clay}.$
- 6.2 The in situ testing indicates the following allowable bearing capacities within the natural ground (F.O.S. =3):

BH No.	Depth (m)	Allowable Bearing Capacity (KN/m²)
1	1.00	120
1	1.50	190
1	2.00	260
1	2.50	310
1	3.00	290
. 2	1.00	90
2	1.50	150
2	2.00	190
2	2.50	210
2	3.00	290
		(Continued)

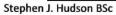
97 Camden Mews, London NW1 9BU

BH No.	Depth (m)	Allowable Bearing Capacity (KN/m²)
3	1.00	120
3	1.50	170
3	2.00	190
4	1.00	160
4	1.50	190
4	2.00	220
5	1.00	130
5	1.50	180
5	2.00	190
6	1.00	100
6	1.50	140
6	2.00	180

- 6.3 Alternatively, if greater loads are anticipated and a piled foundation scheme is adopted, plots of the Shear Strengths versus Depth relationships are given in appendix B (Page 7).
- 6.4 The SO₄ (2:1 Extract) results for BRE classification of concrete in contact with the ground will be noted in the Contamination Report.

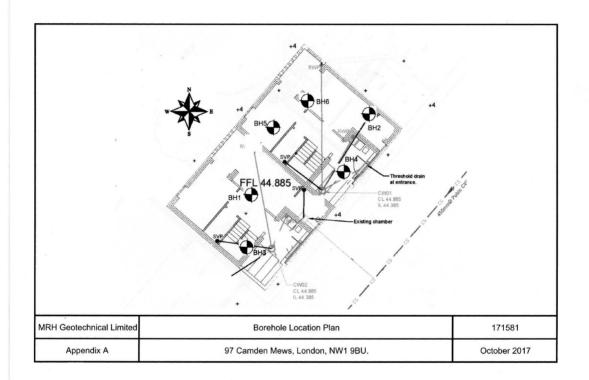
7 **REFERENCES**

- 1) British Standard EN ISO 14688-1:2002
- British Standard 5930:1999
- British Standard 1377: Parts 1-9
- British Geological Survey Sheet 256 (1:50,000 scale) North London
- 5) NHBC Standards Chapter 4.2
- 6) Foundation design and Construction (M.J. Tomlinson, Fifth Edition)
 7) BRE Special Digest 1 (SD1: 2005)



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APPENDIX A BOREHOLE LOCATION PLAN



APPENDIX B
BOREHOLE LOGS

BORE	HOLE	LOG -	MRH	I GEOTECHI	NICAL		HOLE NO. Sheet 1 of 1	ВН	1	
CLIENT	P	aul Simor	n Developmen	nts Ltd	SITE	97 Camden Mew	s, London NW1 9BU	London NW1 9BU		
DATE OF FIE 22/09/:	ELDWORK 17-22/09/1	7	SCALE 1:50	LEVEL/POSITION OPERATOR LOGGED BY GROUND / AS APPENDIX A PA/SB SH					.581	
SAMPLE I	RECORD	SPT N (Cu-kN/m	Standp/ Piezo	DESC	CRIPTION OF ST	RATUM (thicknes	ss)	DEPTH	LEGEND	
0.25	D1				Concrete (0	.18)		0.18		
0.50	D2	(45)		Soft to firm brown (0.52)	n CLAY, occasi	onal partings o	of orange silt		×,	
_1.00	D3	(60)		Firm brown CLAY (0.60)			0.70	×,	
1.50	D4	(95)		Firm to stiff brow	wn CLAY (0.40)			1.30	×,	
_2.00	D5	(130)		Stiff brown CLAY	(0.70)			1.70	×,	
2.50	D6	(155)		Very stiff brown :	slightly fissu	red CLAY (0.40))	2.40	×,	
_3.00	D7	(145)		Stiff brown slight				2.80	* */ *	
3.50	D8	(145)							× * →,	
_4.00	D9	(160)		Very stiff brown	slightly fissu	red CLAY (2.10))	3.90	* *	
4.50	Dlo	(155)		,	, , , , , , , , , , , , , , , , , , , ,				× × ×	
_5.00	D11	(160)							××	
5.50	D12	(160)							× × ×	
_6.00	D13	(165)		Piezometer / Gas ı	monitoring wel Borehole			6.00	× * *	
-										
-				1						
GROUNDWA DEPTH DEPT STRUCK CASE			EPTH REALED Pry C	EMARKS ON GROUNDWATER on completion. Piezo coring well installe	meter / Gas	Mechanical au	OD AND REMARKS ger Gas monitoring we		.led	
	2					KEY: D = Disturl		Bulk Sample Water Sample	9	

	ЕНО	LE	LOG	- M	RH	I GEOTECHI			HOLE NO. Sheet 1 of 1	ВН	2	
CLIENT Paul Simon Developme						nts Ltd 97 Camden Mews, London			s, London NW1 9BU	ndon NW1 9BU		
DATE OF 22/0	FIELDW 9/17-22		7	SCAL	.E : 50	LEVEL/POSITION GROUND / AS			JOB NO			
SAMPLI DEPTH		RD PE	SPT N (Cu-kN/n	Sta	ndp/ ezo	DESC	RIPTION OF ST	RATUM (thicknes	s)	DEPTH	LEGEND	
0.25		D1 D2	(40)			Soft to firm brown gravel (0.45)	Concrete (0		aces of fine	0.15	××	
_1.00		D3	(45)			Soft to firm brown	1 CLAY (0.60)			0.60	×x	
1.50		D4	(75)			Firm to stiff brow	wn CLAY (0.90)			1.20	×x	
_2.00		D5	(95)		-	Stiff brown slight	:ly fissured C	LAY, occasional	partings of	2.10	× × × ×,	
2.50		D6	(105)			orange silt (1.30)					* * *	
_3.00		D7 D8	(145)							3.40	* * *	
_4.00	-	D9	(155)			Very stiff brown w	with traces of	bluish grey sl	ightly fissured		* * *	
4.50		D10	(160)								*	
_5.00		D11	(155)								* * *	
5.50		D12	(165)			Piezometer / Gas m Very stiff dark br partings of orange	silt (0.40)		occasional	г 5.60	× ×,	
_6.00		D13	(175)				Borehole	e ends		F 6.00		
_												
_										-		
_												
- GROUNDV	NATER	AND C	ASING IN	JEORM	ATION			PODING METUS	D AND DEMARKS	L		
DEPTH D STRUCK C.	EPTH EL	APSED TIME		DEPTH SEALED	Dry o	BORING METHOD AND REMARKS MEMARKS ON GROUNDWATER AND CASING on completion. Piezometer / Gas toring well installed BORING METHOD AND REMARKS Mechanical auger Piezometer / Gas monitoring we					lled	
	, -							KEY: D = Disturb U = Undiste All dimension		Bulk Sample Water Sample erwise stated		

CLIENT	1						SITE		Sheet 1 of 1		
		P	Paul Sim	on Deve	elopmer	nts Ltd	s, London NW1 9BU				
DATE C		WORK 21/09/1	17	SCAL 1	LE :50	LEVEL/POSITION GROUND / AS	APPENDIX A	OPERATOR PA/SB	LOGGED BY	JOB NO	.581
SAMP	PLE REC	CORD TYPE	SPT ((Cu-kN/	N Sta m ²) Pi	andp/ iezo	DESC	RIPTION OF ST	RATUM (thicknes	ss)	DEPTH	LEGEND
								rick rubble (0.		0.20	
0.30		D1 D2	(80)		1	Hard greyish brown and fine gravel. M Firm to stiff brown sand (0.50)	sandy clay w MADE GROUND (C on CLAY with c	ith traces of b .20) ccasional parti	ngs of fine	0.40	×,
_1.00		D3	(60)			Firm brown CLAY (C	0.40)			0.90	×
1.50		D4	(85)			Firm to stiff brow	m CLAY (0.70)			1.30	×,
2.00 2.00		D5	(95)				Borehole	ends		2.00	×
-											
<u>:</u>											
<u>:</u>											
.											
-											
-											
-											
_											
_											
_											
DEPTH		R AND C ELAPSED TIME	WATER LEVEL	DEPTH SEALED		EMARKS ON GROUNDWATER	AND CASING	BORING METHO	DD AND REMARKS		
STRUCK -	CASED -	TIME -	LEVEL -	SEALED -		on completion	AND CASING	mechanical aug	ger		
								KEY: D = Disturb		Bulk Sample	
								U = Undistr	urbed Sample W = is are in metres unless oth	Water Sample	

CLIENT	I	Paul Simo	n Developme	nts Ltd	SITE	97 Camden Mews	s, London NW1 9B	J ·	
DATE OF FIE 21/09/1	ELDWORK 17-21/09/1	.7	SCALE 1:50	LEVEL/POSITION GROUND / AS	LOGGED BY	JOB NO	1581		
SAMPLE I DEPTH	RECORD TYPE	SPT N (Cu-kN/n		DESC	CRIPTION OF STE	RATUM (thicknes	s)	DEPTH	LEGEND
_			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Concrete ove	er compacted br	rick rubble (0.	19)	5 4	
0.25	D1 D2	(55)		Firm brown CLAY, o	occasional part	ings of orange	silt (0.51)	0.19	× —_×
_1.00	D3	(80)		Firm to stiff brow (1.00)	wn CLAY, occasi	ional partings	of orange silt	0.70	×x
1.50	D4	(95)							××
_2.00	D5	(110)		Stiff brown CLAY,	occasional par Borehole	rtings of orang ends	e silt (0.30)	2.00	××
									=
-									
_									
<u>.</u>									
	v								
N N									
			 FORMATION			BORING METHO	DD AND REMARKS		
DEPTH DEPT STRUCK CASE	H ELAPSED TIME	WATER LEVEL 5	SEALED	EMARKS ON GROUNDWATER on completion	AND CASING	Mechanical aug			

	HOLE	LOG	- M	RI	H GEOTECHN			HOLE NO. Sheet 1 of 1	ВН	
CLIENT	F	aul Simo	on Deve	lopme	nts Ltd	SITE	97 Camden Mews,	London NW1 9BU		
DATE OF FIE 21/09/1	LDWORK .7-21/09/1	.7	SCAL 1	.E :50	LEVEL/POSITION GROUND / AS	APPENDIX A	OPERATOR PA/SB	LOGGED BY	JOB NO	.581
SAMPLE F DEPTH	RECORD TYPE	SPT f (Cu-kN/i	N Sta m ²) Pi	indp/ ezo	DESC	RIPTION OF STE	RATUM (thickness)		DEPTH	LEGEND
<u>-</u>					Concrete over	compacted bri	ick rubble (0.30)			4
0.50	D1	(65)			Firm brown with tr	aces of bluish	grey CLAY (1.00))	0.30	×x
_1.00	D2	(65)								××
1.50	D3	(90)			Firm to stiff brow	n CLAY (0.70)			1.30	××
_2.00	D4	(95)				Borehole	ends		2.00	×
_										
-										
_										
	-									
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<u>-</u>							w	- · · · · · · · · · · · · · · · · · · ·		
GROUNDWAT DEPTH DEPTH STRUCK CASE			DEPTH SEALED			AND CASING	BORING METHOD Mechanical auge			
DEPTH DEPTH STRUCK CASE	D TIME	LEVEL -	SEALED -		REMARKS ON GROUNDWATER on completion	AND CASING	- nechanical auge	r		
							KEY: D = Disturbed U = Undisturb		Bulk Sample Water Sample	

ВО	REH	OLE	LOG	- M	RI	H GEOTECHI	NICAL		HOLE NO. Sheet 1 of 1	ВН	6
CLIENT		F	Paul Sim	on Dev	elopme	ents Ltd	SITE	97 Camden Mews,	London NW1 9BU		
		DWORK -21/09/1	17	SCA	LE .:50	LEVEL/POSITION GROUND / AS	APPENDIX A	OPERATOR PA/SB	LOGGED BY	JOB NO	.581
SAM	PLE RE	CORD TYPE	SPT (Cu-kN,	N St	andp/ iezo	DESC	CRIPTION OF ST	RATUM (thickness)		DEPTH	LEGEND
							Concrete (0	.19)		0.19	
0.50		D1	(45)			Compacted brick r		OUND (0.21)		0.40	×
						Soft to firm brown	n CLAY (0.80)				×
<u>_</u> 1.00		D2	(50)							1.20	××
1.50		D3	(70)			Firm to stiff bro	wn CLAY (0.80)			1,20	×
Ē							Borehole	ends			×
2.00		D4	(90)							2.00	
Ē											
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	DWAT	ER AND (CASING	INFORM	IATION	N		BORING METHOD	AND REMARKS		
DEPTH STRUCK	DEPTH	ELAPSED TIME		DEPTH SEALED		REMARKS ON GROUNDWATER	R AND CASING	Mechanical auge			
-		-	-	-	Dry	on completion					
								KEY: D = Disturbed		Bulk Sample	
								U = Undisturb	ed Sample W = V are in metres unless othe	Vater Sampl rwise stated	Э

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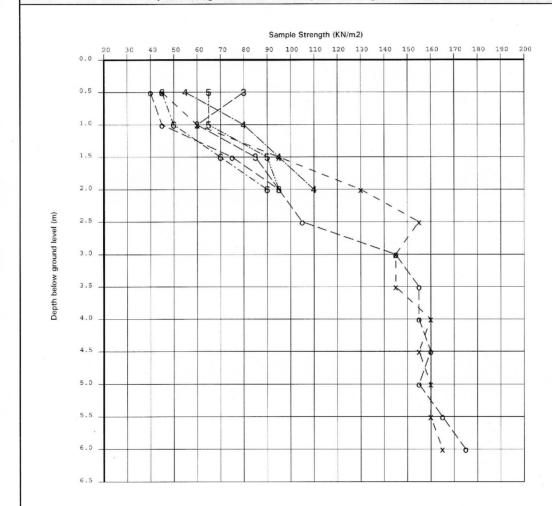
Appendix B

PAGE 7

Job No.

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Sample Strength (KN/m2) vs Depth below ground level (m)



	x: BH 1	o: BH 2	3: BH 3	4 : BH 4	5 : BH 5	6 : BH 6	
Key to		2					
Data Points							

APPENDIX C MOISTURE CONTENT / ATTERBERG LIMIT RESULTS

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Appendix C

PAGE 1

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Job No.

97 Camden Mews, London NW1 9BU 171581

SUMMARY OF MOISTURE CONTENT, LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX AND LIQUIDITY INDEX

			Moisture	Liquid	Plastic	Plasticity	Liquidity	
Borehole/	Depth	Sample	Content	Limit	Limit	Index	Index	Description
Pit No.	m.		(%)	(%)	(%)	(%)	(%)	(BS 5930:1981:41)
вн 1	0.50	D2	35		-	-		Soft to firm brown CLAY, occasional partings of orange silt
вн 1	1.00	D3	31	-	-	-		Firm brown CLAY
вн 1	1.50	D4	27	61	23	38	0.11	Firm to stiff brown CLAY. CH: CLAY of high plasticity. (100% passing 425um)
BH 1	2.00	D5	26	-	-	-		Stiff brown CLAY
вн 1	2.50	D6	27	64	24	40	0.08	Very stiff brown slightly fissured CLAY. CH: CLAY of high plasticity. (100% passing 425um)
вн 1	3.00	D7	30	-	-			Stiff brown slightly fissured CLAY
вн 1	3.50	D8	29	-	-	-		Stiff brown slightly fissured CLAY
вн 1	4.00	D9	29	68	26	42	0.07	Very stiff brown slightly fissured CLAY. CH: CLAY of high plasticity. (100% passing 425um)
ВН 1	4.50	D10	28	-	-	-		Very stiff brown slightly fissured CLAY
BH 1	5.00	D11	28	-	-			Very stiff brown slightly fissured CLAY
BH 1	5.50	D12	28	-	-	-		Very stiff brown slightly fissured CLAY
ВН 1	6.00	D13	28	-	-	-		Very stiff brown slightly fissured CLAY
BH 2	0.50	D2	35	-	-	-		Soft to firm brown slightly sandy CLAY with traces of fine gravel
BH 2	1.00	D3	32	-	-	-	, ==	Soft to firm brown CLAY
BH 2	1.50	D4	29	-	-	-		Firm to stiff brown CLAY
BH 2	2.00	D5	28	66	24	42	0.10	Firm to stiff brown CLAY. CH: CLAY of high plasticity. (100% passing 425um)
вн 2	2.50	D6	30		-	-		Stiff brown slightly fissured CLAY, occasional partings of orange silt
ВН 2	3.00	D7	30	-	-	-		Stiff brown slightly fissured CLAY, occasional partings of orange silt

METHOD OF TEST :

: BS 1377:PART 2:1990:3.2, 4.4, 5.3, 5.4

TYPE OF SAMPLE KEY

: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample,

C = Core Cutter

COMMENTS

REMARKS TO INCLUDE

: Sample disturbance, loss of moisture, variation from test procedure, location and origin of test specimen within original sample. Oven drying temperature if not 105-110 deg C.

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Appendix C

PAGE 2

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Job No.

97 Camden Mews, London NW1 9BU 171581

SUMMARY OF MOISTURE CONTENT, LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX AND LIQUIDITY INDEX

BH 2			2000 1000 1000 000000						
### Pit Mo.	anrehole/	Donth		Moisture	Liquid	Plastic	Plasticity	Liquidity	
BH 2 3.50 D8 30 68 27 41 0.07 Very stiff brown with traces of blu fissured CLAY. CH: CLAY of high pla passing 425um) BH 2 4.00 D9 30 Very stiff brown with traces of blu fissured CLAY CH: CLAY of high pla passing 425um) BH 2 4.50 D10 29 Very stiff brown slightly fissured CLAY BH 2 5.50 D12 28 67 25 42 0.07 Very stiff brown slightly fissured CLAY BH 2 6.00 D13 28 Very stiff brown slightly fissured high plasticity. (100% passing 425um) BH 3 0.50 D2 31 Firm to stiff brown CLAY with occase fine sand BH 3 1.00 D3 31 Firm brown CLAY BH 4 0.50 D2 33 Firm to stiff brown CLAY BH 4 1.50 D4 27 Firm to stiff brown CLAY BH 4 1.50 D4 27 Firm to stiff brown CLAY BH 4 2.00 D5 30 Firm to stiff brown CLAY BH 5 1.00 D2 30 Firm brown CLAY, occasional parting BH 5 1.50 D3 29 Firm to stiff brown CLAY BH 5 1.50 D3 29 Firm to stiff brown CLAY BH 5 1.50 D3 29 Firm brown CLAY BH 5 1.50 D3 29 Firm brown CLAY Firm to stiff brown CLAY		100000000000000000000000000000000000000	Sample			Limit	Index	Index	Description
## Sissured CLAY. CH: CLAY of high plat passing 425um) ## Passing 425um ##	FIC NO.	ta.		(%)	(%)		(%)	(10)	(BS 5930:1981:41)
BH 2	BH 2	3.50	D8	30	68	27	41	0.07	Very stiff brown with traces of bluish grey slightly fissured CLAY. CH: CLAY of high plasticity. (100% passing 425um)
BH 2 5.00 D11 29 - - - Very stiff brown with traces of bluffissured CLAY BH 2 5.50 D12 28 67 25 42 0.07 Very stiff brown slightly fissured high plasticity. (100% passing 425u BH 2 6.00 D13 28 - - - Very stiff dark brown slightly fiss occasional partings of orange silt BH 3 0.50 D2 31 - - - Firm to stiff brown CLAY with occas fine sand BH 3 1.00 D3 31 - - - Firm brown CLAY BH 3 1.50 D4 29 - - - Firm to stiff brown CLAY BH 4 0.50 D2 33 - - - Firm brown CLAY, occasional parting BH 4 1.50 D4 27 - - - Firm to stiff brown CLAY BH 4 2.00 D5 30 - - - Stiff brown CLAY, occasional parting BH 5 1.0	BH 2	4.00	D9	30	-	-	-		Very stiff brown with traces of bluish grey slightly fissured CLAY
## 2 5.50 D12 28 67 25 42 0.07 Very stiff brown slightly fissured high plasticity. (100% passing 425u Very stiff dark brown slightly fiss occasional partings of orange silt ### 3 0.50 D2 31 - - - Firm to stiff brown CLAY with occase fine sand ### 3 1.00 D3 31 - - - Firm to stiff brown CLAY with occase fine sand ### 4 1.50 D4 29 - - - Firm to stiff brown CLAY ### 4 0.50 D2 33 - - - Firm to stiff brown CLAY ### 5 1.00 D5 30 - - - Firm to stiff brown CLAY ### 5 1.00 D2 30 - - - Firm to stiff brown CLAY ### 5 1.50 D3 29 - - - Firm to stiff brown CLAY ### 6 Firm to stiff brown CLAY ### 6 Firm to stiff brown CLAY ### 7 Firm to stiff	BH 2	4.50	D10	29	-	-			Very stiff brown slightly fissured CLAY
BH 2 6.00 D13 28 - - -	BH 2	5.00	D11	29	-	-	-		Very stiff brown with traces of bluish grey slightly fissured CLAY
BH 3	BH 2	5.50	D12	28	67	25	42	0.07	Very stiff brown slightly fissured CLAY. CH: CLAY of high plasticity. (100% passing 425um)
BH 3	BH 2	6.00	D13	28	-	-	-		Very stiff dark brown slightly fissured CLAY, occasional partings of orange silt
BH 3	вн 3	0.50	D2	31	-	-	-		Firm to stiff brown CLAY with occasional partings of fine sand
BH 3 2.00 D5 29 Firm to stiff brown CLAY BH 4 0.50 D2 33 Firm brown CLAY, occasional parting BH 4 1.00 D3 30 Firm to stiff brown CLAY BH 4 1.50 D4 27 Firm to stiff brown CLAY BH 4 2.00 D5 30 Firm to stiff brown CLAY BH 5 1.00 D2 30 Firm brown with traces of bluish gr BH 5 1.50 D3 29 Firm to stiff brown CLAY BH 5 2.00 D4 28 Firm to stiff brown CLAY	вн 3	1.00	D3	31	-	-	-		Firm brown CLAY
BH 4 0.50 D2 33 Firm brown CLAY, occasional parting BH 4 1.00 D3 30 Firm to stiff brown CLAY BH 4 1.50 D4 27 Firm to stiff brown CLAY BH 4 2.00 D5 30 Stiff brown CLAY, occasional partin BH 5 1.00 D2 30 Firm brown with traces of bluish gr BH 5 1.50 D3 29 Firm to stiff brown CLAY BH 5 2.00 D4 28 Firm to stiff brown CLAY	вн 3	1.50	D4	29	-	-	-		Firm to stiff brown CLAY
BH 4 1.00 D3 30 - - Firm to stiff brown CLAY BH 4 1.50 D4 27 - - Firm to stiff brown CLAY BH 4 2.00 D5 30 - - Stiff brown CLAY, occasional partin BH 5 1.00 D2 30 - - Firm brown with traces of bluish gr BH 5 1.50 D3 29 - - Firm to stiff brown CLAY BH 5 2.00 D4 28 - - Firm to stiff brown CLAY	вн 3	2.00	D5	29			-		Firm to stiff brown CLAY
BH 4	вн 4	0.50	D2	33	-	-	-		Firm brown CLAY, occasional partings of orange silt
BH 4 2.00 D5 30 - - Stiff brown CLAY, occasional partin BH 5 1.00 D2 30 - - - Firm brown with traces of bluish gr BH 5 1.50 D3 29 - - - Firm to stiff brown CLAY BH 5 2.00 D4 28 - - - Firm to stiff brown CLAY	вн 4	1.00	D3	30	-		-		Firm to stiff brown CLAY
BH 5 1.00 D2 30 - - Firm brown with traces of bluish gr BH 5 1.50 D3 29 - - - Firm to stiff brown CLAY BH 5 2.00 D4 28 - - - Firm to stiff brown CLAY	вн 4	1.50	D4	27	-	-	-		Firm to stiff brown CLAY
BH 5 1.50 D3 29 - - Firm to stiff brown CLAY BH 5 2.00 D4 28 - - Firm to stiff brown CLAY	BH 4	2.00	D5	30	-	-	-		Stiff brown CLAY, occasional partings of orange silt
BH 5 2.00 D4 28 Firm to stiff brown CLAY	BH 5	1.00	D2	30	-	-			Firm brown with traces of bluish grey CLAY
	ВН 5	1.50	D3	29	-	-	-		Firm to stiff brown CLAY
Bu 6 1 00 D2 32 Eirm brown CLAY	ВН 5	2.00	D4	28	-	-			Firm to stiff brown CLAY
BN 0 1.00 DZ 3Z FITTIN DIOWIT CENT	ВН 6	1.00	D2	32	-	-	-		Firm brown CLAY

METHOD OF TEST : BS 1377:PART 2:1990:3.2, 4.4, 5.3, 5.4

TYPE OF SAMPLE KEY : U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample,

C = Core Cutter

CCMMENTS

REMARKS TO INCLUDE : Sample disturbance, loss of moisture, variation from test procedure, location and origin of test specimen within original sample. Oven drying temperature if not 105-110 deg C.

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Appendix C

PAGE 3

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Job No.

97 Camden Mews, London NW1 9BU 171581

SUMMARY OF MOISTURE CONTENT, LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX AND LIQUIDITY INDEX

	N							
sorehole/			Moisture	Liquid	Plastic	Plasticity	Liquidity	
Pit No.	Depth m.	Sample	Content	Limit	Limit	Index	Index	Description
			(%)	(%)	(%)	(3)	(%)	(BS 5930:1981:41)
BH 6	1.50	D3	28	-	-	-		Firm to stiff brown CLAY
BH 6	2.00	D4	29	-	-	-		Firm to stiff brown CLAY
		1						
		9	1		1			

METHOD OF PREPARATION : BS 1377:PART 1:1990:7.4 & PART 2:1990:4.2

METHOD OF TEST : BS 1377:PART 2:1990:3.2, 4.4, 5.3, 5.4

TYPE OF SAMPLE KEY : U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample,

C = Core Cutter

COMMENTS

REMARKS TO INCLUDE : Sample disturbance, loss of moisture, variation

: Sample disturbance, loss of moisture, variation from test procedure, location and origin of test specimen within original sample. Oven drying temperature if not 105-110 deg C.

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Appendix C

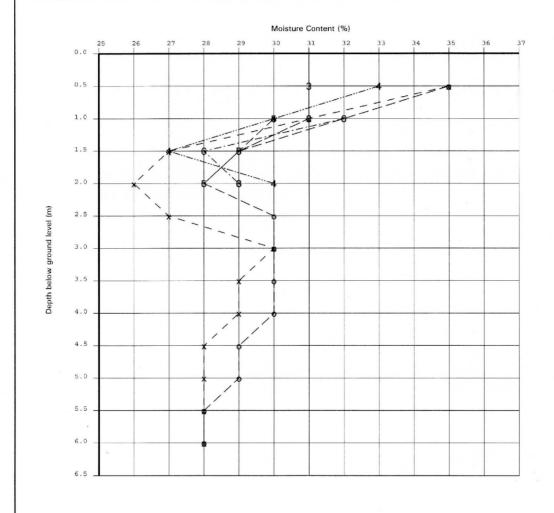
PAGE 4

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Job No.

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Moisture Content (%) vs Depth below ground level (m)



	x: BH 1	o: BH 2	3 : BH 3	4:BH 4	5 : BH 5	6 : BH 6	
Key to							
Data Points							

MRPLOT