277A Gray Site &	s Inn	коаа,								Borehole No:	ВН	103
London WC		R.V.										
dient: Regal Homo							Coor	rdinates:	530478E, 182807N	Sh	eet 3 of 3	
ngineer: Pringuer-J a	mes	Consu	lting E	ngin	eers	Ltd	Grou	und Level:	+19.10mOD	Report No:	Y.	8/MC
Progress & Observations	100000000000000000000000000000000000000	es & Tests Depth	Field Test	1.56	rata Level	Legend			Strata Descriptions			kfill / allation
H complete: 28/02/2015 H depth: 25.00m asing depth: 2.00m /ater depth: Dry	D D SPT/S D SPT/S	20.25 21.00 21.50 22.50 22.50 23.25 23.25 24.00	Field Test Results N=48 N₀=61	21.50 25.00	-2.40	Legend X X X X X X X X X X X X X X X X X X	AY, with occupant and research	casional i are carbo y closely 1-brown, thinly la	Strata Descriptions ured, dark grey-brown, small pockets of silt, raunaceous matter. fissured, locally slicken orange-brown, brown aminated, locally bioturb	sided, and blue-grey,		
(ey: U = Undisturbed B = Bulk D P = Pocket Penetrometer (kg/cm :emarks: Approximate Gr Approximate Gr	ordinate	s interp	olated fi	om put	olic don	nain data			T/C = solid cone HV = Hand Vs ry sheet D1, dated May 2014).	ne [kPa]	Borehole Cable P Borehole	ercuss No:
Approximate Gr	Julied EC			owntif:	9001	2011100	(1011 E1)		, associa, 2017).		ВН	103

te & ocation	Report 9708/MC No:							
			STANDARD PENETRA	TION TES	T SUMM	IARY		
t	Depth	Test	'N' value and blow-counts	N ₆₀	N ₆₀ - ext	Casing	Water	Remarks
	[m]	type	[Seating blows/Test blows]			depth [m]	depth [m]	Remarks
101	16.50	S	N = 30 :5 6/ 7 7 8 8	38		2.50	Dry	
	19.50	S	N = 33 :5 5/ 7 8 9 9	42		2.50	Dry	
	22.50	S	N = 50 :6 8/ 11 12 14 13	63		2.50	Dry	
	24.50	S	50 :7 9/ 10 13 16 11 for 30mm	>63*	75**	2.50	Dry	
1102	4.00	S	N = 17 :2 2/ 3 4 5 5	22		2.00	Dry	
	6.50	S	N = 17 :2 3/ 3 4 5 5	22		2.00	Dry	
	9.50	S	N = 23 :3 3/ 5 5 6 7	29		2.00	Dry	
	12.50	S	N = 26 :3 4/ 5 6 7 8	33		2.00	Dry	
	15.50	S	N = 27 :4 5/ 5 6 7 9	34		2.00	Dry	
	18.50	S	N = 35 :5 6/ 7 9 9 10	44		2.00	Dry	
	21.50	S	N = 44 :6 8/ 9 11 12 12	56		2.00	Dry	
	24,50	S	50 :8 10/ 12 13 15 10 for 60mm	>63*	70**	2.00	Dry	
H103	16.50	S	N = 27 :3 5/ 6 6 7 8	34		2.00	Dry	
	19.50	S	N = 29 :4 6/ 6 8 7 8	37		2.00	Dry	
	22.50	S	N = 48 :6 7/ 9 10 12 17	61		2.00	Dry	
	24.50	S	N = 54 :7 8/ 10 12 15 17	68		2.00	Dry	
where	full penet	ration n	:: BS EN ISO 22476:2005 Part 3 ot achieved, the reported N ₆₀ is based on maxim where full penetration not achieved - this is indic	um uncorrected	blow-count			[SPT Sheet 1 0







SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

Southern Testing Keeble House Stuart Way **East Grinstead** West Sussex **RH19 4QA**

SPT Hammer Ref: DW1

Test Date:

25/09/2014 Report Date: 25/09/2014

File Name: Test Operator:

DW1.spt

Instrumented Rod Data

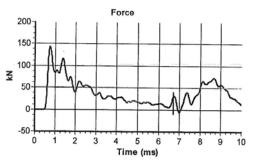
Diameter d_r (mm): 54 Wall Thickness t_r (mm): 6.6 Assumed Modulus Ea (GPa): 208 Accelerometer No.1: Accelerometer No.2: 6459

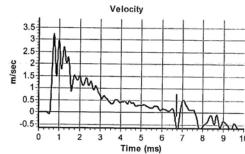
SPT Hammer Information

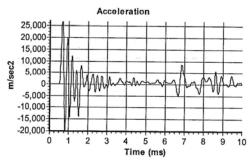
Hammer Mass m (kg): 63.5 Falling Height h (mm): 760 SPT String Length L (m): 14.5

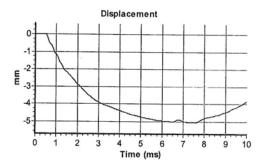
Comments / Location

Charlwoods Road









Calculations

Area of Rod A (mm2): Theoretical Energy E_{theor} (J): 473 Measured Energy E_{meas} (J): 360

Signed: N P Burrows

Energy Ratio E_r (%):

76

Field Operations Manager

The recommended calibration interval is 12 months

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PJCE

277A Gray's Inn Road 9708/MC London WC1X 8QF

SUMMARY OF GROUND-WATER/GAS MONITORING RESULTS

Date:	25/03/15	Ambient air temperature [0C]:	8
Time:	AM	Barometric pressure [mB]:	1016
Equipment:	GA2000 Plus MC08/0126/00	Barometric trend:	Rising
Recorded by:	MR	Weather conditions:	Damp and overcast

Ground-water monitoring

Hole ID	Ground level	Water depth	Water level	Depth of pipe	Remarks
	[mOD/SD]	[m]	[mOD/SD]	base [m]	
BHD		dry		11.00	
BHE		dry	1	11.00	
			1		
			1		
			1		
			1		
			1		

Gas monitoring

Hole ID	CH4 [%	14 [%] CO2 [%]		02 [%]		Peak [pp	mv]	Flow	Emission rate	Remarks	
	Max	Steady	Max	Steady	Min	Steady	СО	H ₂ S	[l/min]	[l/hr]	
BHD	0.1	0.1	0.1	0.1	20.6	20.6	0.0	0.0	0.0	0.0	
BHE	0.1	0.1	0.9	0.9	19.6	19.6	0.0	0.0	0.0	0.0	
2											



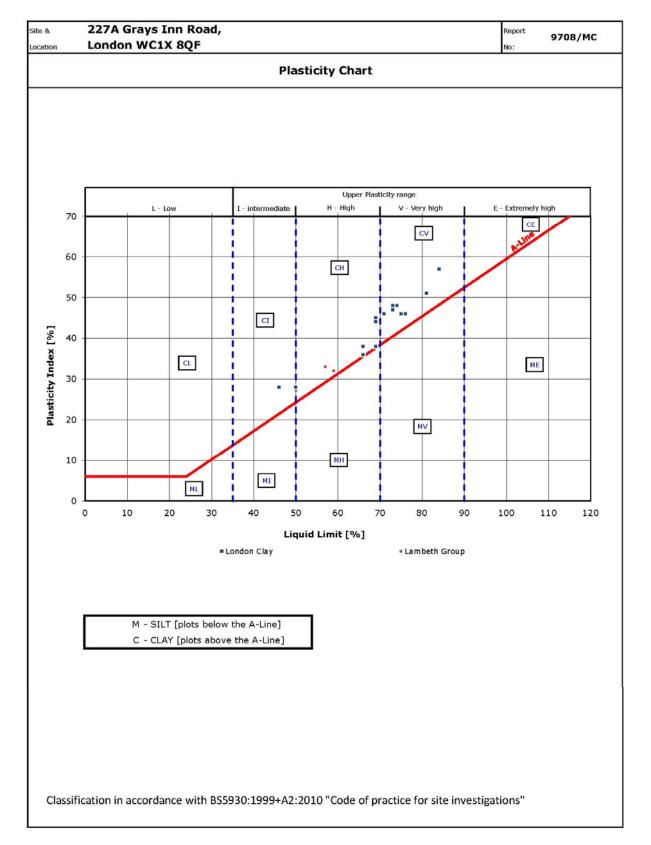
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ercent passing 425µm: by estimation, by hand* or by sieving**

ite & ocation	277A										Report 9708/N
				_		MMA	RY (OF C	LASS	SIFIC	CATION TEST RESULTS
BH ID	Depth (m)	Туре	w (%)	wL (%)	wP (%)	Pass 425 (%)	IP (%)	Mod IP (%)	IL (%)	LOI (%)	Description
H101	15.00	U	21			(70)		(70)			Dark grey-brown, slightly sandy, slightly micaceous, CLAY.
	18.00	U	23	75	29	>95	46		-0.14		Dark grey-brown, slightly sandy, slightly micaceous, CLAY.
	21.00	U	19								Variegated red-brown, orange-brown, brown and blue-grey, CLAY.
	23.50	U	20	59	27	>95	32		-0.23		Variegated red-brown, orange-brown, brown and blue-grey, CLAY.
H102	3.00	U	28	71	25	>95	46		0.07		Brown and orange-brown, thinly veined blue-grey, slightly micaceous CLAY, with occasional selenite.
	5.00	U	28								Brown and orange-brown, thinly veined blue-grey, slightly micaceous CLAY, with occasional selenite.
	8.00	U	27								Dark grey-brown CLAY.
	11.00	U	23	81	30	>95	51		-0.14		Dark grey-brown, slightly sandy, slightly micaceous, CLAY.
	14.00	U	26								Dark grey-brown, slightly sandy, slightly micaceous, CLAY.
	17.00	U	27	76	30	>95	46		-0.07		Dark grey-brown, slightly sandy, slightly micaceous, CLAY.
	20.00	υ	20	46	18	>95	28		0.09		Dark grey-brown, slightly sandy, slightly micaceous, CLAY.
	23.00	U	19								Variegated red-brown, orange-brown, brown and blue-grey, CLAY.
H103	15.00	U	25	74	26	>95	48		-0.02		Dark grey-brown, slightly sandy, slightly micaceous, CLAY.
	18.00	U	18	66	28	>95	38		-0.26		Dark grey-brown, slightly sandy, slightly micaceous, CLAY.
	21.00	U	21								Dark grey-brown, slightly sandy, slightly micaceous, CLAY.
	23.50	U	18	57	24	>95	33		-0.18		Variegated red-brown, orange-brown, brown and blue-grey, CLAY.
esting	in accord	dance v	with BS	ENIS	0 1789	2 unles	s speci	fied ot	herwise	1	Date: 24 Mar

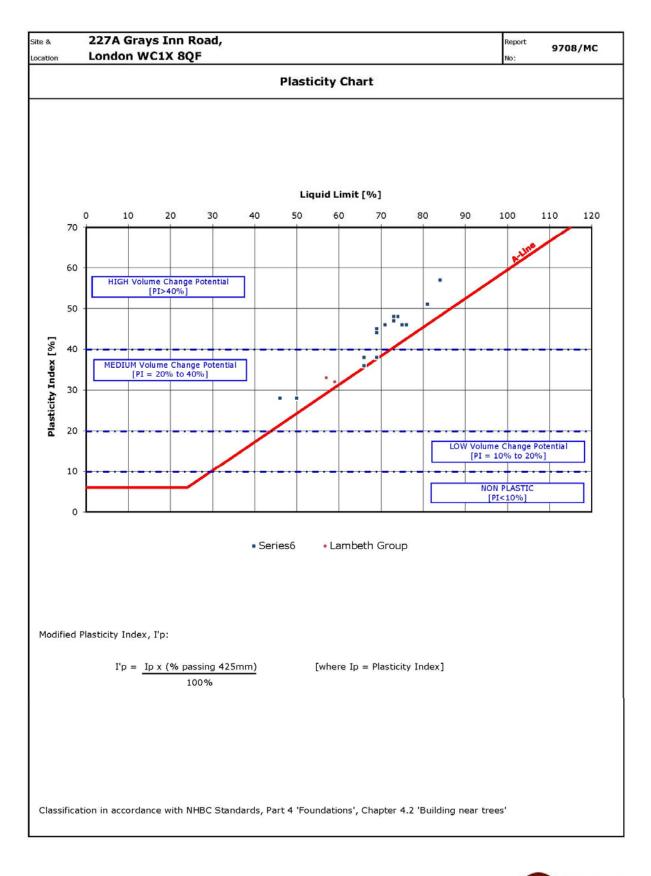
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(Classification Sheet 1 of 1)











Site Location		Grays I on WC1		ıd,						Report No:		9708/M
SUMMARY OF UNDRAINED SHEAR STRENGTH TEST RESULTS												
BH ID	Depth [m]	Moisture content [%]	Bulk density [Mg/m³]	Dry density [Mg/m³]	Cell pressure [kPa]	(01-03)f [kPa]	Failure strain [%]	Failure mode	Undrained cohesion [kPa]	Remarks		
3H101	15.00	21	2.03	1.68	300	483	4.50	I	242			
	18.00	23	2.04	1.66	360	640	4.50	В	320			
	21.00	19	2.08	1.74	420	804	3.00	В	402			
	23.50	20	2.07	1.73	470	475	3.00	В	238			
3H1 02	3.00	28	1.88	1.47	100	130	4.00	I	65			
	5.00	28	1.95	1.52	100	218	2.00	В	109			
	8.00	27	1.95	1.54	160	273	3.00	В	137			
	11.00	23	1.99	1.61	220	385	3.00	В	193			
	14.00	26	1.99	1.57	280	301	3.00	В	151			
	17.00	27	1.99	1.57	340	364	3.00	В	182			
	20.00	20	2.04	1.69	400	510	5.50	I	255			
	23.00	19	2.10	1.77	460	733	2.50	В	367			
3H103	15.00	25		1.60	300	432	4.00	В	216			
. 1200	18.00	18	2.06	1.74	360	620	5.00	I	310			
	21.00	21	2.05	1.70	420	784	5.00	В	392			
	23.50	18	2.04	1.73	470	545	5.50	В	273			
esting in a	accordance	with BS EN	ISO 17892	UU = unco	onsolidated _.	, undraine	d; MUU =	multistag	ge, unconsolid	ated, ur Date:		24 March
		se: Rate of s ittle, I = inte				x membrar	me used v	with thick	ness = 0.5mn	1	[Triaxi	

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