

APPENDIX C

EXTRACTS FROM SOILS REPORT (CGL, JUNE 2018)

REVISION P2 - 18.09.2018



Mrs Anu Nayar

14 Queen's Grove, Westminster, London

Ground Movement Assessment

June, 2018

APPENDIX C

CGL borehole records

BOREHOLE LOG

Project



14 C Job No	Queens	Grove,		estmins	ter, Lo	ndon Ground Le	evel (m)	Co-Ordinates (m)		BH1
					,		1.25	E 526,740.0 N :	183.596.0	
Client	0012			J 0J 10			1.23	2 320,740.0 14	103,330.0	Sheet
	Anu N	ayar								1 of 2
SAMPL								STRATA		
Depth (m)	Type No	Test Result	Water	Reduced Level	Legend	Depth (m) (Thick-		DESCRIPT	TON	nstrument
(111)	110	Nesuit		Level		ness)	Grass over ve	ery soft dark grey sandy gr	avelly silt with fre	equent rootlets.
				50.90		_ (0.35) - 0.35	concrete and	um. Gravel is angular to sulbrick.	ıbrounded fine to	coarse of flint,
				50.75		0.50	occasionally subrounded [MADE GROU	wn silty gravelly clay with cobble sized, fragments of fine to medium of flint and JND] ntent becoming occasiona	f brick. Gravel is a d concrete.	coarse, ngular to
0.95 1.00	D	N5				(1.30)	Soft light gre clayey mediu is subangular [POSSIBLE HI	y brown sandy gravelly CL im sand and rare rootlets. to rounded fine to coarse EAD DEPOSITS] ng orange brown mottled	AY with lenses of Sand is medium e of flint.	orange brown to coarse. Gravel
1.50	D			49.45	-	1.80				
1.85	HSV	62			× × ×	> -	crystals, part	orange brown fissured silty ly decayed rootles and blu	ie grey discolorat	ion around
2.00 2.00	D	N8			× × × × × × × × × × × × × × × × × × ×	7 - - - - -	rootlets and spaced, plans	along fissures. Fissures are	e randomly orient	tated, closely
2.50	D				× × × × × × × × × × × × × × × × × × ×	} 	2.50 Lenses of	becoming sub horizontal, of orange brown silt noted are lenses of dark green b	l .	∴
2.85	HSV	64			x_x_	7				
3.00 3.00	D	N11			x x x x x x x x x x x x x x x x x x x					
3.50	D				* _ × _ × _ × _ × _ × _ × _ × _	(3.40)				
3.85	HSV	87			<u>× × </u>	-	crystals.	ng firm to stiff. Selenite no		dium sand sized
4.00 4.00	D	N14			* * * * * * * * * * * * * * * * * * *	}	3.95 - 4.80 Po	ockets of orange brown fir	ne sand noted.	
4.50	D				X X X X X X X X X X X X X X X X X X X	1 7 7 7 7 7				
4.85 5.00	HSV D	108			× × × × × × × × × × × × × × × × × × ×	7_ 7_ 8_ 8	4.85 Partly d	ecayed rootlets noted.		
Boring Pr	ogress		ateı				General R	emarks		
	mment	Strike Depth			g bia. mm		2. No ground 3. D = Disturk 'N60' value. 4. Installation 1.0mbgl to 5.	pit to 1.0m bgl. water encountered. ped sample; HSV; Hand sh n details: 0.0mbgl to 1.0m .0mbgl: slotted pipe with a ckfill; 6.0mbgl to 10mbgl: ncrete cover.	bgl: plain pipe wit gravel backfill: 5.0	th bentonite backill; Ombgl to 6.0mbgl:
Method/ Plant Used	LLA	MR win	dow	sample	r		Field Crew	Topdrill	Logged By GAT	Checked By JJM
				•			62			

亩 Method/		Field Crew	Logged By	Checked By
팅 Plant Used	LLAMR window sampler	Topdrill	GAT	JJM

BOREHOLE LOG

14 Queens Grove, Westminster, London

09-05-18

Ground Level (m)

51.25

Co-Ordinates (m)

Date

Project

Job No

Client

CG/28612



		ayar						2 of 2	
SAMPL	ES & TE	STS	_				STRATA		ent
Depth (m)	Type No	Test Result	Water	Reduced Level	Legend	Depth (m) (Thick- ness)	Depth (m) (Thick- DESCRIPTION		Instrument
5.00		N18		46.05	× ,	5.20			
5.50	D				^x^ *x *x	-	Stiff to very stiff dark brown fissured silty CLAY with occ orange brown and light brown silt, rare blue grey discolor fissures and fine to medium gravel sized nodules of pyri sub vertical and sub horizontal, very closely spaced, plan	blue grey discoloration along d nodules of pyrite. Fissures are sely spaced, planar, smooth.	
					* * * * * * * * * * * * * * * * * * *	-	[LONDON CLAY FORMATION] 5.20 - 7.20 Fine to medium gravel sized nodules of gyps		
5.85	HSV	106			× ×	_			
6.00 6.00	D	N22			* × ×	-			
					× ×	-	6.30 Pocket of dark grey and white medium to coarse sa	ind noted.	
6.50	D				* - × - > * - × - > × - × - >	-	6.45 Occasional medium to coarse gravel sized selenite 6.50 Blue grey discolouration noted to be absent.		
6.85	HSV	121			<u>*</u> *	-			
7.00 7.00	D	N21			× × ×	-			
7.00		N21			* X X X X X X X X X X X X X X X X X X X	-	7.20 - 7.30 Dark green brown lenses of sand noted. 7.20 - 8.65 Occasional lenses of yellow brown fine sand, medium gravel sized and frequent fine sand sized seleni	rare fine to te crystals noted.	
7.50	D				× × × × × × × × × × × × × × × × × × ×	- (4.80) -	7.35 Light reddish brown lenses of fine sand noted.	·	
8.00 8.00	D	N20			* × · · · · · · · · · · · · · · · · · ·	-			
8.50	D				X — X — X — X — X — X — X — X — X — X —	- - -	8.65 - 10.00 Occasional pale grey foraminifera, frequent selenite crystals and occasional pockets of dark grey silt	fine sand sized noted.	
9.00 9.00	D	N26			* * * * * * * * * * * * * * * * * * *	- - -			
9.50	D				× × × × × × × × × × × × × × × × × × ×				
_				41.25	<u> </u>	10.00			
10.00 10.00	D	N28				-	(Borehole terminated at 10m)		
Boring Pro	ogress		ater				General Remarks		
Date Co	mment	Strike Depth	D	Casin epth D	g Dia. mm	Standing Depth	1. Hand dug pit to 1.0m bgl. 2. No groundwater encountered. 3. D = Disturbed sample; HSV; Hand shear vane test; N = 'N60' value. 4. Installation details: 0.0mbgl to 1.0mbgl: plain pipe wit 1.0mbgl to 5.0mbgl: slotted pipe with gravel backfill: 5.0 bentonite backfill; 6.0mbgl to 10mbgl: arisings backfill. I flush with concrete cover.	h bentonite backi mbgl to 6.0mbgl:	II;
Method/ Plant Used	LLA	MR wind	dow	sample	r		Field Crew Logged By Topdrill GAT	Checked E	

BOREHOLE LOG



	IVIrs	Anu N	ayar			1 of 1						
SAMPLES & TESTS								STRATA				ent
	Depth (m)	Type No	Test Result	Water	Reduced Level	Legend	Depth (m) (Thick- ness)	DESCRIPTION				Instrument (VBackfill
CGL BH LOG CG28616 QUEENS GROVE.GPJ GINT STD AGS 3_1.GDT 6/28/18				ater	51.63 51.50 51.40	vation	(0.37) 0.37 0.50 0.60	Soft dark grey sandy gravelly clay with rootl Gravel is subangular to rounded fine to med [TOPSOIL] Soft light orange brown silty gravelly clay. Grounded fine to medium of flint and fine bri [MADE GROUND] Soft light orange brown silty gravelly clay. Grounded fine to medium of flint. [POSSIBLE HEAD DEPOSITS] (Borehole terminated at 0.6m)	Gravel is suba ick fragments	ngular to	/	
CGL	Plant Used Hand auger							Topdrill	GAT		JJM	



SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

Topdrill Ltd 7 Deeping Gate Stonebridge Milton Keynes MK13 ODE SPT Hammer Ref: 038

Test Date:

29/06/2017

Report Date:

File Name:

038.spt

Test Operator:

RM

Instrumented Rod Data

Diameter d_r (mm):

54

Wall Thickness t_r (mm):

6.2

Assumed Modulus Ea (GPa): 208

Accelerometer No.1:

9783

Accelerometer No.2:

9784

SPT Hammer Information

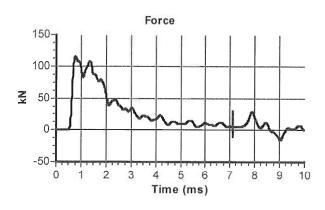
Hammer Mass m (kg): 63.

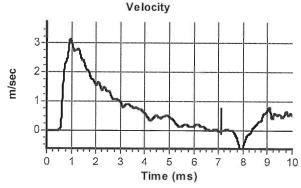
Falling Height h (mm): 760

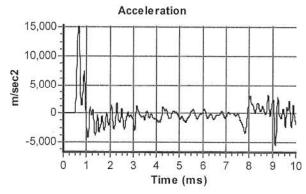
SPT String Length L (m): 18.0

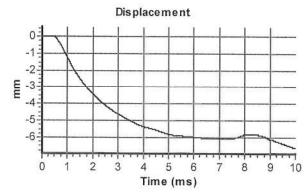
Comments / Location

LLAMR 038 Topdrill Ltd Milton Keynes









Calculations

Area of Rod A (mm2):

931

Theoretical Energy E_{theor} (J):

473

Measured Energy E_{meas}

376

Energy Ratio E r (%):

79

Signed: Andy Pearson
Title: Drilling Manager

The recommended calibration interval is 12 months