

APPENDIX H: BGS Borehole Logs



SE 69NW 41

RECORD OF BOREHOLE LOG

Location : HASLAR-AEW/ANEE
 : TASK NO FGE/276

Contract No. : CF669/1472

Type of Boring : Shell & Auger

Date (started) : 11.12.75

Borehole Dia : 0.20m
 Casing : 0.20m
 Ground Level : 4.49m O.D.

N.G.R. 6135. 9860

SHEET 1 OF 1

Date & Time	Depth of Casing	Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA
			Depth	Type	No.	Legend	Depth	
			0.30m.	D	1	Ground Level	1.70m	MADE GROUND (0.00 - 0.70m. Brown sandy clay with small gravel, 0.70 - 0.90m. medium fine rounded and sub-angular gravel, 0.90 - 1.30 brown silty sandy clayey gravel, 1.30 - 1.65m. brown silty sandy organic clay with fine gravel and pieces of brick, 1.65 - 1.70m. concrete)
			0.45m. - 0.83m.	U	2			
			0.70m	D	3			
			0.90m	D	4			
			1.00m	D	5			
			1.30m. (N=22)	D	6			
						1.70m		
						End.		

REMARKS: Obstruction at 1.70m. One hour chiselling to advance 50 mm. and then borehole terminated. Borehole 1A carried out 12.00m. away. Prior to this the rig was set up 1.60m. and 5.00m. away from BH 1 and obstructed at 1.70 and 1.85m. respectively.

SCALE 1 : 50

Foundation Engineering Ltd.



SZ 69NW 42

RECORD OF BORING LOG 1A

Location : HASLAR - AEW / AMEE
 TASK NO FGE / 275
 Contract No. : CF669 / 1472
 Type of Boring : Shell & Auger
 Date (started) : 8.1.75

SHEET ... 1 ... OF ... 2 ...
 Borehole Dia : 0.20m.
 Casing : 0.20m.
 Ground Level : 4.56m. O.D.

N. G. R. 6136, 9859

Date of Core	Depth of Casing	Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA
			Depth	Type	No.	Legend	Depth	
			0.30m.	D	1			MADE GROUND (0.00-0.30m. soil brick ashes, 0.30-1.25m. clay, gravel, brick ashes and wire. 1.25-2.20m. brown sandy clay with angular gravel. 2.20-3.10m. ashes, sandy clay, china, 3.10-5.00m. angular gravel and brick rubble.) 5.00m. Well graded sub-angular and sub-rounded GRAVEL 0.30m. Firm brown silty sandy CLAY with gravel. 0.30m. 5.60m. Firm yellow green silty sandy CLAY. 3.40m. 9.00m. Stiff grey silty sandy CLAY. 1.50m. (10.00m) Cont'd
			0.75m. (N=4)	D	2			
			1.25m.	D	3			
			1.50m. - 1.38m.	U	4			
			1.90m. (N=13)	D	5			
			2.20m.	D	6			
			2.50m. (N=6)	D	7			
3.1.76 12 ⁰⁰	3.00m.	Dry	3.10m.	D	8			
3.1.76 08 ⁰⁰	3.00m.	Dry	3.30m.	D	9			
			3.50m. (N=19)	D	10			
			4.00m.	D	11			
			4.50m. (N=20)	D	12			
			5.00m.	D	13			
			5.30m.	D	14			
			5.60m.	D	15			
			5.80m. - 6.20m.	U	16			
			6.30m.	D	17			
			6.80m. - 7.18m.	U	18			
			7.70m.	D	19			
			8.50m. - 8.90m.	U	20			
			9.00m.	D	21			
			9.80m.	D	22			
			10.00m. - 10.42m.	U	23			

REMARKS: Water seepage at 9.80m. and sample taken
 Water added to shell and gravel.

SCALE: 1 : 50

Foundation Engineering Ltd.



SZ 69 NW 42

Location : *HASLAR-AWE/AMEE*
 : *TASK NO FGE/276*


Contract No. : *CF669/1472*

Type of Boring : *Shell & Auger*

Date (started) : *8.1.76*

RECORD OF BORING NO. *1A*
 SHEET...*2*... OF...*2*...

Borehole Dia : *0.20m.*
 Casing : *0.20m.*
 Ground Level : *4.56m. O.D.*

Date & Time	Depth of Casing	Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA
			Depth	Type	No.	Legend	Depth	
			<i>10.30m.</i>	<i>D</i>	<i>24</i>		<i>10.00m</i>	<i>1.50m. Stiff grey silty sandy CLAY.</i>
						<i>End.</i>	<i>10.50m.</i>	

REMARKS:

Foundation Engineering Ltd.



SZ 69 NW 48

RECORD OF BOREHOLE No: 7

Location : HASLAR-AEW/AMEE
 Contract No. : TASK NO FGE/276
 Type of Boring : Shell & Auger
 Date (started) : 7.1.76

SHEET ...!... OF ...!...
 Borehole Dia : 0.20m.
 Casing : 0.20m. to 9.50m.
 Ground Level : 3.01m. O.D.

N.G.R. 6109. 9853

1.20
1.40
1.60
1.80
2.00
2.20
2.40
2.60
2.80
3.00
3.20
3.40
3.60
3.80
4.00
4.20
4.40
4.60
4.80
5.00
5.20
5.40
5.60
5.80
6.00
6.20
6.40
6.60
6.80
7.00
7.20
7.40
7.60
7.80
8.00
8.20
8.40
8.60
8.80
9.00
9.20
9.40
9.60
9.80
10.00

Date & Time	Depth of Casing	Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA
			Depth	Type	No.	Legend	Depth	
			0.30m.	D	1			MADE GROUND. (0.00-0.60m. brown silty clay with angular gravel and brick fragments 0.60-0.85m. ashes and clinker, 0.85-1.30m. dark grey sandy clay with brick.)
			0.45m.	D	2			
			0.60m.	D	3		1.30m.	
			0.70m. (N=11)	D	4			
			0.85m.	D	5			
			1.30m. - 1.71m.	U	6	x - q	1.30m.	0.40m. Firm black blue brown silty CLAY with occasional gravel.
			1.70m.	D	7	x - x	1.70m.	0.20m. Firm mottled green brown sandy silty CLAY
			1.90m.	D	8	x - x	1.90m.	0.40m. Firm yellow brown silty sandy CLAY with well graded rounded and angular gravel.
			2.00m. - 2.40m.	U	9	x - o - x	2.30m.	0.95m. Compact sandy well graded rounded and angular GRAVEL.
			2.30m.	D	10			
			2.50m. (N=31)	D	11			
			3.00m.	B	12			
			3.25m.	D	13		3.25m.	
			3.50m. - 3.90m.	U	14			
			4.25m.	D	15			
			5.00m. - 5.41m.	U	16		3.65m.	Firm grey brown sandy silty CLAY.
			5.75m.	D	17			
			6.50m. - 6.90m.	U	18			
7.1.76	6.90m.	4.65m.	6.90m.	D	19		6.90m.	
8.1.76	6.90m.	3.41m.	7.00m. - 7.38m.	U	20			
			7.75m.	D	21			
			8.50m. - 8.90m.	U	22		3.10m.	Firm grey silty sandy CLAY with occasional shell fragments.
			9.25m.	D	23			
			10.00m. - 10.39m.	U	24		10.00m.	
						End.		

REMARKS: Water seepage at 2.70m. and sample taken.
 Slight water seepage at 0.70m.

SCALE: 1 : 50

Foundation Engineering Ltd.



SZ 69NW 43

HASLAR - AEW/AMEE

Location : TASK NO FGE/276

Contract No. : CF669/1472

Type of Boring : Shell & Auger

Date (started) : 9.12.75

RECORD OF BOREHOLE No. 2

SHEET ... OF ... 2 ...

Borehole Dia. : 0.20m.

Casing : 0.20m. to 17.50m.

Ground Level : 4.60m. O.D.

Nic. r. 6132. 9862

Borehole No.	Depth of Casing	Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA
			Depth	Type	No.	Legend	Depth	
			0.30m.	D	1		Ground Level	
			0.75m. (N=12)	D	2			
			1.05m.	D	3			
			1.50m. (N=20)	D	4			
			1.85m.	D	5			
			2.10m.	D	6			
			2.50m.	D	7			
			2.70m. - 3.15m.	U	8		5.20m.	MADE GROUND (0.00-1.05m. Topsoil with cinders and brown silty clay with gravel, 1.05-1.85m. yellow/brown clayey silty sandy gravel, 1.85-2.10m. brown silty clay with gravel and wood, 2.10-2.50m. brown silty clay with gravel, 2.50-4.55m. yellow/brown silty sandy clay with gravel and pieces of brick, 4.55-5.20m. brown silty sandy clay with c.m.f. gravel.
			3.30m.	D	9			
			3.50m. (N=6)	D	10			
			4.55m.	D	11			
			4.60m. - 4.99m.	U	12			
			5.20m.	D	13		5.20m.	
			5.50m.	D	14		5.50m.	0.30m. Soft grey silty CLAY with gravel.
			5.60m. - 5.98m.	U	15			
			5.80m.	D	16		5.80m.	0.30m. Firm grey/black clayey sandy SILT.
			6.10m.	D	17		6.10m.	0.30m. Angular and rounded medium and fine GRAVEL.
			6.20m.	D	18			
	6.30m.	5.70m.	6.30m. - 6.72m.	U	19			
			7.15m.	D	20			
			7.50m. - 7.89m.	U	21		2.45m.	Stiff grey brown sandy CLAY with rounded and angular gravel.
			8.00m.	D	22			
			8.55m.	D	23		8.55m.	
			9.00m. (N=27)	D	24			
			9.75m.	D	25		1.95m.	Medium dense yellow green clayey silty SAND.
							(10.00m.)	

REMARKS: Piezometer installed at 9.00m. in sand chamber from 4.00 to 9.20m. Water seepage at 5.80m. and sample taken. Slow water seepage at 8.55m. and sample taken.



SZ 69 NW 43

Location : *HASLAR-AEW/ANEE*
 : *TASK NO FGE/276*

Contract No. : *CF669/1472*

Type of Boring : *Shell & Auger*

Date (started) : *9.12.75*

RECORD OF BORING No: *2*
 SHEET ... *2* . OF ... *2*

Borehole Dia. : *0.20m.*
 Casing : *0.20m. to 17.50m.*
 Ground Level : *4.60m. O.D.*

Date & Time	Depth of Casing	Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA	
			Depth	Type	No.	Legend	Depth		Thickness
			10.50m. (N=26)	D	26		10.00m. 10.50m.	1.95m.	Medium dense yellow green clayey silty SAND.
			11.25m.	D	27				
			12.00m. (N=29)	D	28			2.40m.	Medium dense green brown clayey silty SAND.
			12.90m.	D	29		12.90m.		
			13.50m. (N=33)	D	30			1.70m.	Compact brown grey silty fine SAND.
			14.50m.	D	31		14.50m.		
			15.00m. (N=39)	D	32				
			15.75m.	D	33				
			16.50m. (N=61)	D	34			3.10m.	Very compact dark grey silty m.f. SAND with pieces of shells.
12.50m	4.70m		17.25m.	D	35				
17.50m	5.32m		17.50m. (N=70)	D	36		17.50m.		
						End			

REMARKS: *Water added to assist boring.*



SZ69NW 47

RECORD OF BOREHOLE No: 6

HASLAR-AEW/AMEE

Location : TASK NO FGE/275

SHEET ... OF ... 2...

Contract No. : CF 669/1472

Borehole Dia : 0.20m.

Type of Boring : Shell & Auger

Casing : 0.20m.

Date (started) : 21.12.75

Ground Level : 3.48m. O.D.

N. 6. E. 6114. 9857

Date & Time	Depth of Casing	Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA
			Depth	Type	No.	Legend	Depth	
			0.25m.	D	1		Ground Level.	
			0.60m.	D	2			
			0.70m.	D	3			
			0.75m.	D	4			
			(N=15)					MADE GROUND.
			1.50m. - 1.88m.	U	5			(0.00 - 0.60m. brown clay, sand and gravel,
								0.60 - 0.70m. brown clay, sand gravel and brick fragments,
								0.70 - 3.40m. grey silty clay with gravel and brick fragments
			2.25m.	D	6			
			2.30m.	D	7			
			(N=12)					
			3.00m. - 3.41m.	U	8			
			3.40m	D	9		3.40m.	0.20m. Soft grey red black silty CLAY with gravel.
			3.60m.	D	10		3.50m.	0.20m. Soft yellow grey silty CLAY.
			3.80m.	D	11		3.60m.	0.20m. Soft yellow grey silty CLAY.
			3.95m.	D	12		3.95m.	0.15m. Soft grey silty CLAY with gravel.
			4.00m.	D	13			
			(N=35)					
			4.50m.	D	14		4.50m.	0.55m. Compact sandy clayey GRAVEL.
			5.00m. - 5.41m.	U	15			0.80m. Firm yellow green sandy CLAY.
			5.30m.	D	16		5.30m.	0.30m. Medium dense yellow green clayey SAND.
			5.60m.	D	17		5.60m.	
			6.00m. - 6.41m.	U	18			
			6.40m.	D	19			2.40m. Firm grey brown sandy silty CLAY.
			7.50m. - 7.92m.	U	20			
			8.00m.	D	21		8.00m	
			9.00m. - 9.40m.	U	22			1.30m. Soft grey silty sandy CLAY.
21.12.75			9.30m.	D	23		9.30m.	
18.00	6.00m.	9.10m.	9.50m.	D	24			5.70m. Compact grey clayey SAND.
6.1.76	6.00m.	1.72m.	(N=34)					
08.00							(10.00m)	

REMARKS:

Piezometer installed at 4.30m. in sand chamber from 3.70 to 4.50m.
Water seepages at 3.95m. and 9.30m. with the latter sampled.



SZ69NW/47

RECORD OF BOREHOLE No: 6

Location : HASLAR - AEW/AMEE
 : TASK NO FGE/276
 Contract No. : CF 669/1472
 Type of Boring : Shell & Auger
 Date (started) : 12.12.75

SHEET ... OF ...
 Borehole Dia : 0.20m.
 Casing : 0.20m.
 Ground Level : 3.48m. O.D.

0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
1.60
1.80
2.00
2.20
2.40
2.60
2.80
3.00
3.20
3.40
3.60
3.80
4.00
4.20
4.40
4.60
4.80
5.00
5.20
5.40
5.60
5.80
6.00
6.20
6.40
6.60
6.80
7.00
7.20
7.40
7.60
7.80
8.00
8.20
8.40
8.60
8.80
9.00
9.20
9.40
9.60
9.80
10.00

Date & Time	Depth of Casing	Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA
			Depth	Type	No.	Legend	Depth	
			10.25m.	D	25		(10.00m)	
			11.00m. (N=32)	D	26			
			11.75m.	D	27			
			12.50m. (N=35)	D	28			5.70m. Compact grey clayey SAND.
			13.25m.	D	29			
			14.00m. (N=34)	D	30			
			14.50m.	D	31			
			15.00m. (N=39)	D	32		15.00m.	
						End.		

REMARKS:

SCALE 1:50

Foundation Engineering Ltd.