



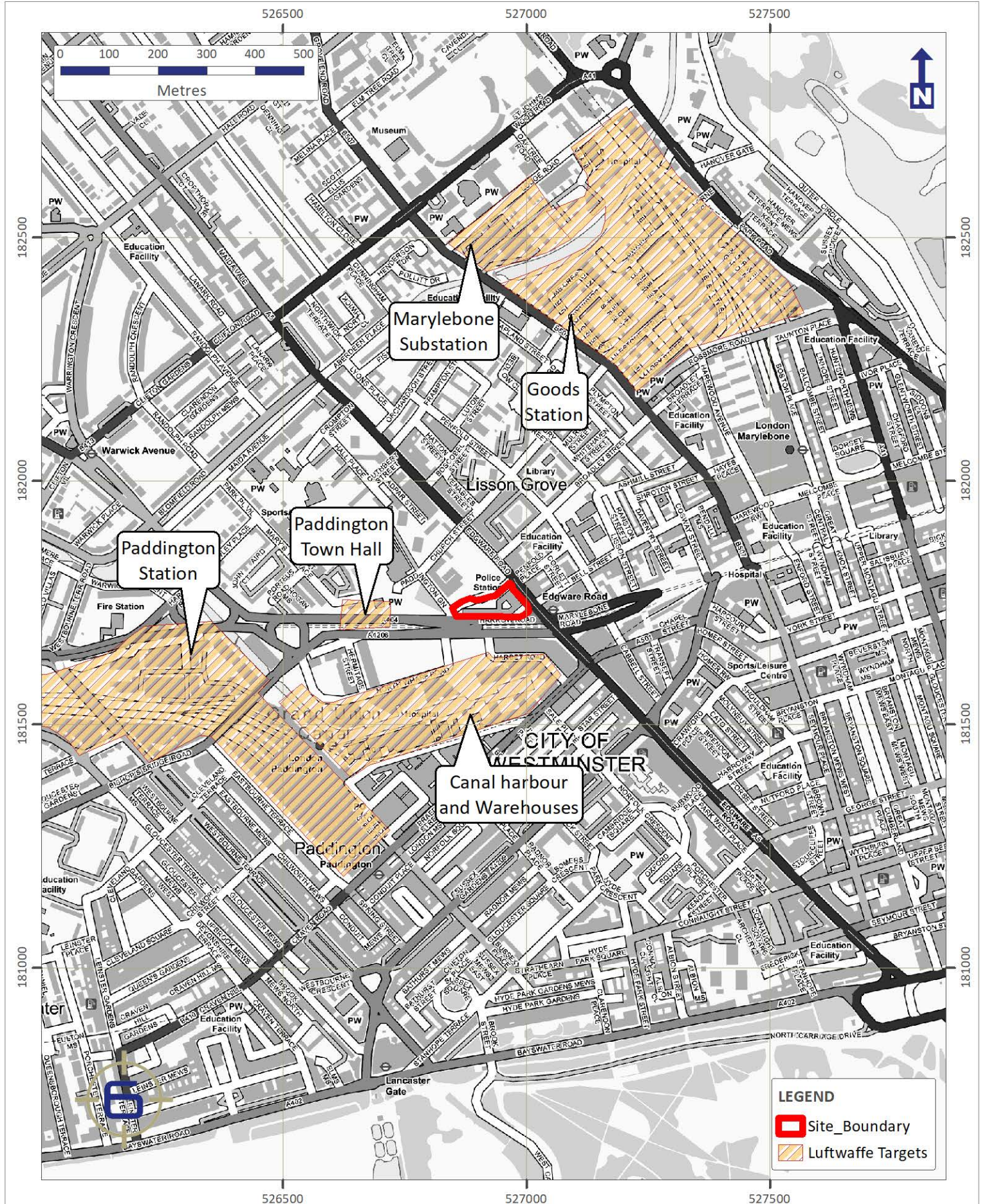
**PADDINGTON GREEN**  
POLICE STATION

# **Structural Method Statement (Part 4)**

Structural Method Statement (Part 4) –  
November 2022 - GLA0711

NOVEMBER 2022

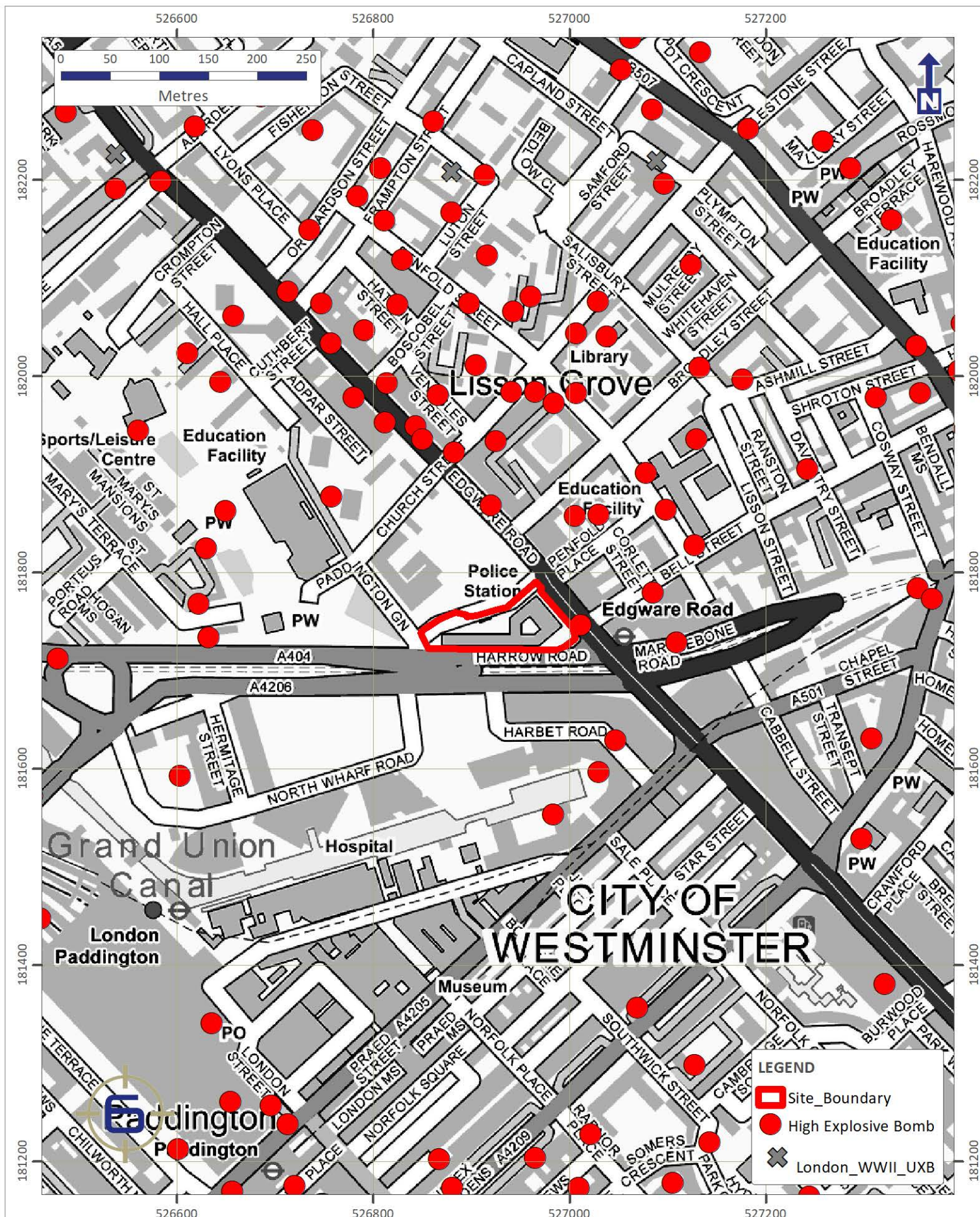






## Figure Seven - WWII Consolidated Bomb Strikes

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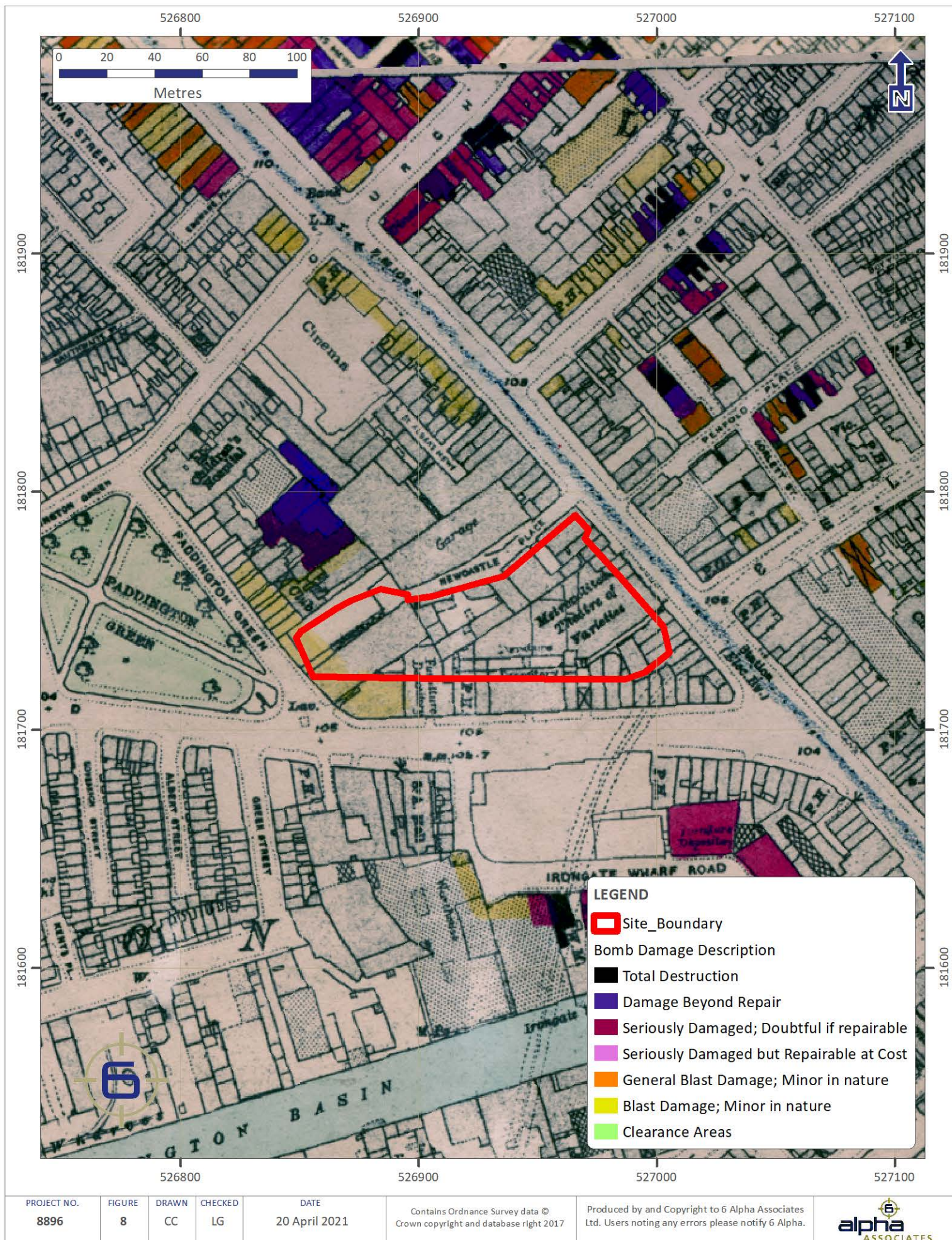
## Figure Eight – *London County Council* WWII Bomb Damage Map

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# PADDINGTON GREEN POLICE STATION, LONDON W2

## London County Council WWII Bomb Damage Map





## **APPENDIX 3**

### **EXPLORATORY HOLE RECORDS**



L I M I T E D  
Tel: 01733-566566  
[www.groundengineering.co.uk](http://www.groundengineering.co.uk)

Date: 04/05/21

526991 mE 181734 mN  
Ground  
Level: 32.10m. O.D.

REMARKS	1. Concrete handstanding cored using diamond drilling equipment 2. Chiselling from 0.35m to 1.20m for 1.50 hours 3. Chiselling from 2.00m to 2.50m for 0.50 hours 4. Chiselling from 2.50m to 2.60m for 2.00 hours 5. Borehole cased to 2.50m depth 6. Borehole abandoned on concrete 'slab' obstruction at 2.60m depth	Project No 15340	
		Scale 1:50	Page 1/1

KEY	N/* - SPT Blows for 0.3m or given penetration B - Bulk Sample ES - Environmental Sample U - Undisturbed Sample V - Vane Shear Test W - Water Sample Cohesion ( ) kPa S/C - SPT Spoon/Cone    ∇c Level on completion ∇ Water Strike         c ∇w Level casing withdrawn ∇ Water Rise          ∇s Standpipe Level	Groundwater Strikes						Groundwater Observations			
		Depth m						Date	Depth m		
		No	Struck	Rose to	Rate	Cased	Sealed		Hole	Casing	Water
							04/05/21	2.60	2.50	dry	
							04/05/21	2.60	0.00	dry	

L I M I T E D  
Tel: 01733-566566  
[www.groundengineering.co.uk](http://www.groundengineering.co.uk)

Date: 29/06/21  
to 05/07/21

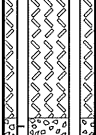
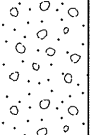
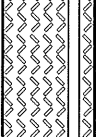
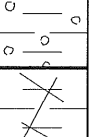
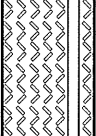
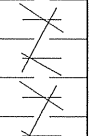
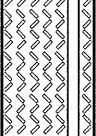
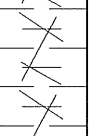
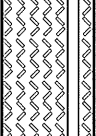
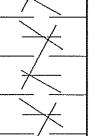
BOREHOLE  
BH1A

526890 mE 181743 mN  
Ground level: 33.80m. O.D.

REMARKS	1. Roof and floor slabs of basement car park cored using diamond drilling equipment 2. Engineer designed temporary works (props) installed prior to drilling 3. Starter pit excavated to 1.20m below basement car park floor level 4. Water added from 7.00m to 12.50m 5. Falling head tests at 7.50m, 9.10m and 11.80m (1.5hrs) 6. Borehole cased to 14.00m depth (200mm) 7. Chiselling from 16.00m to 16.30m, from 30.80m to 31.00m, from 46.00m to 46.20m and from 46.80m to 47.10m (1 hour) 8. Gas monitoring standpipes installed to 5.50m	Project No 15340	
		Scale 1:50	Page 1/6

KEY	N/* - SPT Blows for 0.3m or given penetration B - Bulk Sample ES - Environmental Sample U - Undisturbed Sample V - Vane Shear Test W - Water Sample Cohesion ( ) kPa S/C - SPT Spoon/Cone    ▾c Level on completion ▿ Water Strike         c ▿w Level casing withdrawn ▾ Water Rise            ▾s Standpipe Level	Groundwater Strikes						Groundwater Observations			
		Depth m						Date	Depth m		
		No	Struck	Rose to	Rate	Cased	Sealed		Hole	Casing	Water
		1	12.00	10.56	seepage		14.00	29/06/21	7.50	6.50	dry
		2	16.10		seepage			30/06/21	7.50	6.50	dry
								30/06/21	18.00	14.00	dry
								01/07/21	18.00	14.00	dry
								01/07/21	35.50	14.00	dry



<b>GROUND ENGINEERING</b> L I M I T E D Tel: 01733-566566 www.groundengineering.co.uk			Site: PADDINGTON GREEN POLICE STATION, LONDON W2				BOREHOLE BH1A			
			Date: 29/06/21 to 05/07/21		Hole Size: 200mm dia to 24.00m 150mm dia to 51.00m		526890 mE 181743 mN Ground Level: 33.80m. O.D.			
Samples and in-situ Tests			(Date)	Inst.	Description of Strata	Legend	Depth m	O.D. Level m		
Depth m	Type	Blows	Casing							
10.60-11.10 10.75-10.98	B8 C	50*	10.50		Very dense, light brown, slightly silty, sandy GRAVEL. Gravel of angular to rounded flint and quartzite. Becoming medium dense below 11.80m, base of hole 'unstable'.  (LYNCH HILL GRAVEL MEMBER)		10.00	23.80		
11.80-12.30 11.95-12.25	B9 C	N14	11.80				13.80	20.00		
13.80 13.90-14.40 14.05-14.35	W1 B10 S	N21	13.90		Stiff, fissured, grey brown, slightly gravelly CLAY with orange brown, iron-stained fissure planes. Gravel of rounded flint gravel. (WEATHERED LONDON CLAY FORMATION) Stiff, becoming very stiff, closely fissured, grey brown CLAY. Cobble size nodule of medium strong, grey, calcite-veined, concretionary limestone at 16.00m depth.		14.30	19.50		
14.35	D4									
15.50-15.95	U2	50	14.00		(LONDON CLAY FORMATION)					
15.95 16.00-16.50	D5 B11									
17.00-17.50 17.15-17.45 17.45	B12 S D6	N31	14.00							
18.50-18.95 18.95	U3 D7	50	14.00							
19.50	D8									
20.00-20.50	B13									
REMARKS and 13.80m depth 9. Piezometer installed to 50.00m depth 10. Standpipe/piezometer water levels tabulated after borehole records							Project No 15340			
							Scale 1:50	Page 2/6		
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed Sample W - Water Sample S/C - SPT Spoon/Cone Water Strike Water Rise N/* - SPT Blows for 0.3m or given penetration ES - Environmental Sample V - Vane Shear Test Cohesion ( ) kPa Level on completion Level casing withdrawn Standpipe Level				Groundwater Strikes			Groundwater Observations			
				Depth m			Depth m			
				No	Struck	Rose to	Rate	Cased	Sealed	Date
							05/07/21	35.50	14.00	dry
							05/07/21	51.00	14.00	dry

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Date: 29/06/21  
to 05/07/21

526890 mE 181743 mN  
Ground level: 33.80m. O.D.

REMARKS	Project No 15340	
	Scale 1:50	Page 3/6

[illegible]



L I M I T E D  
Tel: 01733-566566  
[www.groundengineering.co.uk](http://www.groundengineering.co.uk)

Date: 29/06/21  
to 05/07/21

BOREHOLE  
BH1A

526890 mE 181743 mN  
Ground level: 33.80m. O.D.

REMARKS	Project No 15340	
	Scale 1:50	Page 4/6

[illegible]





[illegible]

Site PADDINGTON GREEN POLICE STATION, LONDON W2

Client BERKELEY HOMES LIMITED

Date 30/06/21

Type of Test Falling Head

Level  
mOD

Depth of borehole during test, a : 7.50 m

Depth to equilibrium watertable, b : 7.50 m Measured

Height of casing above ground level, c : 0.70 m

Depth of casing below ground level, d : 7.00 m

Length of response zone, Z : 0.50 m

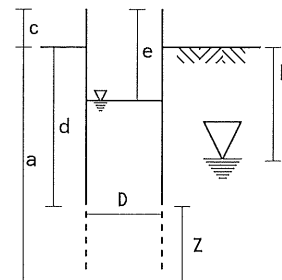
Diameter of response zone, D : 0.20 m

Intake factor, F : 1.9072

(From Condition D of fig. 7 BS5930:1981)

Soil Type at test level

SAND



PERMEABILITY(after Hvorslev 1951)

Basic Time Lag Approach

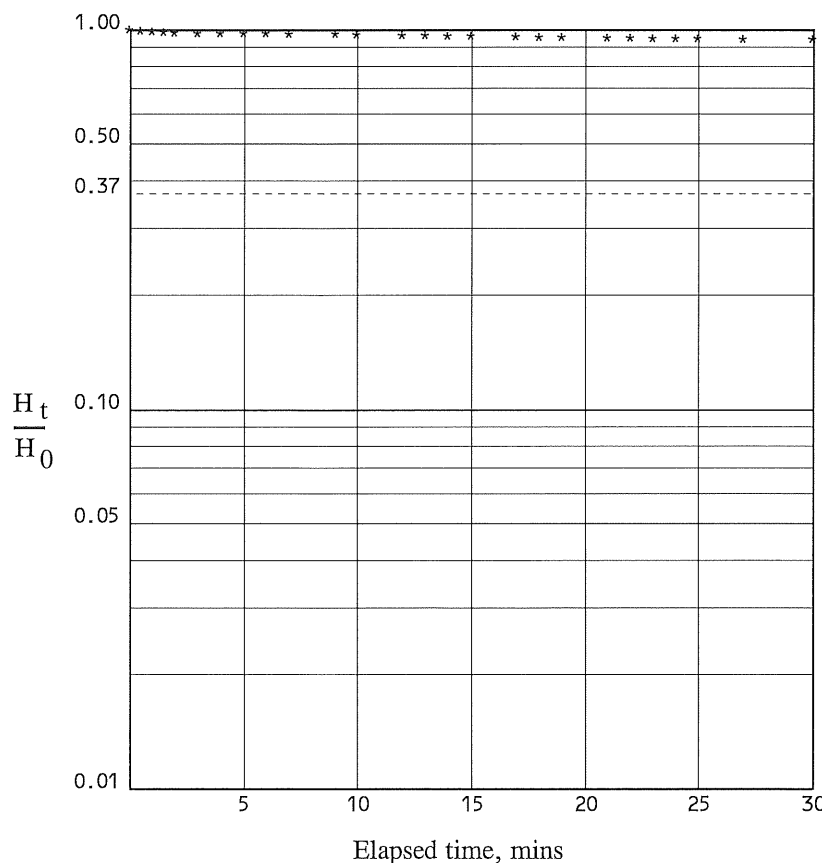
Plot  $\log \frac{H_t}{H_0}$  v  $t$  \*-----\*

then  $\frac{H_t}{H_0}$

$$k = \frac{A}{60FT} \text{ m/s}$$

$$k = 8.72E-7 \text{ m/s}$$

Elapsed time, t mins	Depth to water, e m	Head of water, H m	Ht/Ho
0.00	0.25	7.95	1.000
0.50	0.32	7.88	0.991
1.00	0.37	7.83	0.985
1.50	0.40	7.80	0.981
2.00	0.41	7.79	0.980
3.00	0.45	7.75	0.975
4.00	0.45	7.75	0.975
5.00	0.46	7.74	0.974
6.00	0.46	7.74	0.974
7.00	0.47	7.73	0.972
9.00	0.49	7.71	0.970
10.00	0.51	7.69	0.967
12.00	0.54	7.66	0.964
13.00	0.55	7.65	0.962
14.00	0.56	7.64	0.961
15.00	0.57	7.63	0.960
17.00	0.60	7.60	0.956
18.00	0.62	7.58	0.953
19.00	0.63	7.57	0.952
21.00	0.65	7.55	0.950
22.00	0.66	7.54	0.948
23.00	0.68	7.52	0.946
24.00	0.69	7.51	0.945
25.00	0.70	7.50	0.943
27.00	0.72	7.48	0.941
30.00	0.73	7.47	0.940



REMARKS: Extrapolated T estimated as 315 minutes

15340

In-Situ Permeability Test

Bh No

Fig No

BH1A

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Site PADDINGTON GREEN POLICE STATION, LONDON W2

Client BERKELEY HOMES LIMITED

Date 30/06/21

Type of Test Falling Head

Level  
mOD

Depth of borehole during test, a : 9.00 m

Depth to equilibrium watertable, b : 9.00 m Measured

Height of casing above ground level, c : 0.23 m

Depth of casing below ground level, d : 8.80 m

Length of response zone, Z : 0.20 m

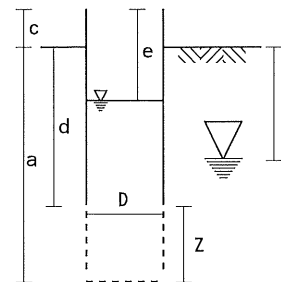
Diameter of response zone, D : 0.20 m

Intake factor, F : 1.4258

(From Condition D of fig. 7 BS5930:1981)

Soil Type at test level

SAND AND GRAVEL



PERMEABILITY(after Hvorslev 1951)

Basic Time Lag Approach

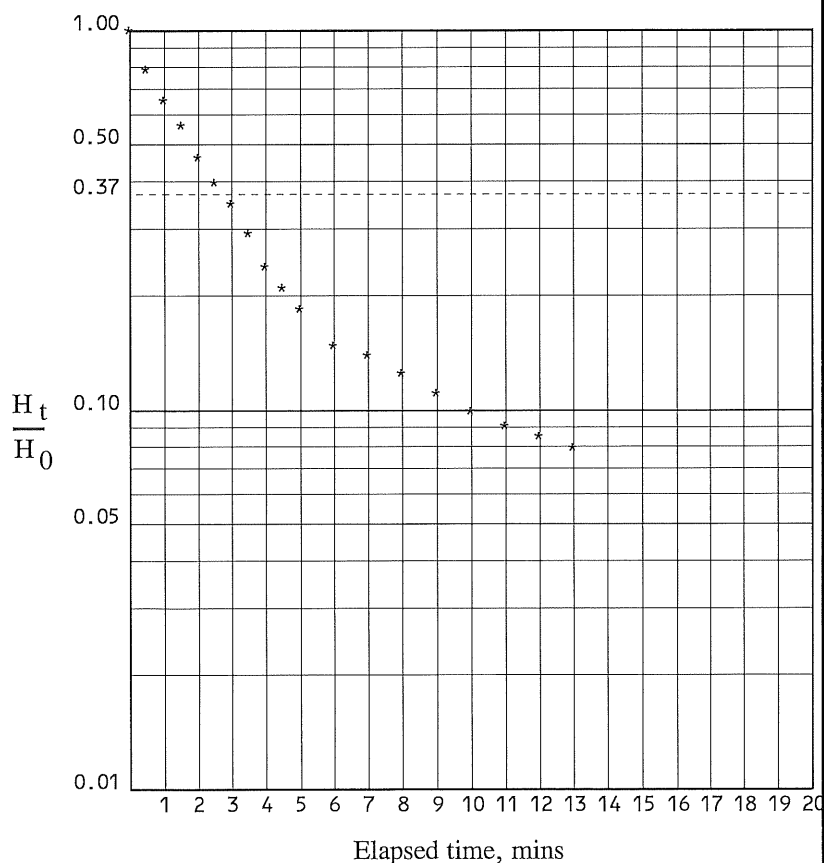
Plot  $\log \frac{H_t}{H_0}$  v  $t$  \*-----\*

then

$$k = \frac{A}{60FT} \text{ m/s}$$

$$k = 1.34E-4 \text{ m/s}$$

Elapsed time, t mins	Depth to water, e m	Head of water, H m	Ht/Ho
0.00	5.70	3.53	1.000
0.50	6.45	2.78	0.788
1.00	6.93	2.30	0.652
1.50	7.25	1.98	0.561
2.00	7.60	1.63	0.462
2.50	7.83	1.40	0.397
3.00	8.00	1.23	0.348
3.50	8.20	1.03	0.292
4.00	8.39	0.84	0.238
4.50	8.49	0.74	0.210
5.00	8.58	0.65	0.184
6.00	8.71	0.52	0.147
7.00	8.74	0.49	0.139
8.00	8.79	0.44	0.125
9.00	8.84	0.39	0.110
10.00	8.88	0.35	0.099
11.00	8.91	0.32	0.091
12.00	8.93	0.30	0.085
13.00	8.95	0.28	0.079



REMARKS:

15340

In-Situ Permeability Test

Bh No

Fig No

BH1A.

GROUND ENGINEERING

L I M I T E D

Tel: 01733-566566

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Site PADDINGTON GREEN POLICE STATION, LONDON W2

Client BERKELEY HOMES LIMITED

Date 30/06/21

Type of Test Falling Head

Level  
mod

Depth of borehole during test, a : 11.80 m

Depth to equilibrium watertable, b : 10.56 m Measured

Height of casing above ground level, c : 0.00 m

Depth of casing below ground level, d : 11.73 m

Length of response zone, Z : 0.07 m

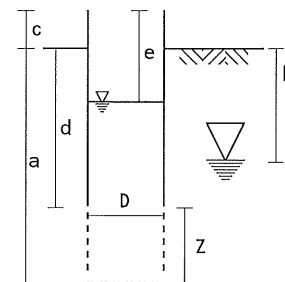
Diameter of response zone, D : 0.20 m

Intake factor, F : 1.2815

(From Condition D of fig. 7 BS5930:1981)

Soil Type at test level

Sandy GRAVEL



PERMEABILITY(after Hvorslev 1951)

Basic Time Lag Approach

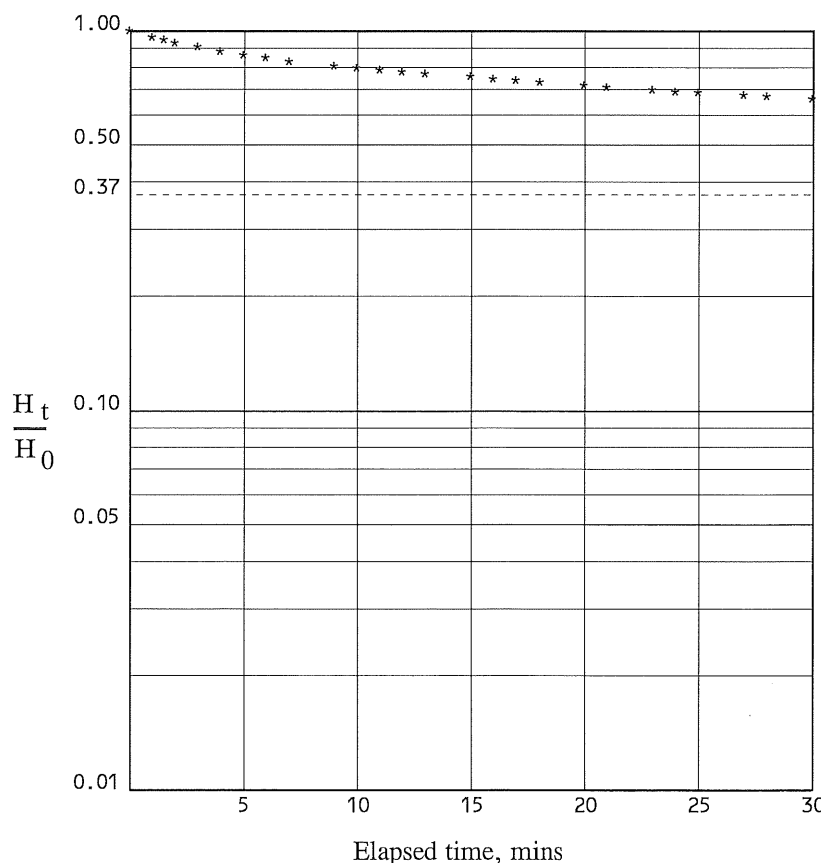
Plot  $\log \frac{H_t}{H_0}$  v  $t$  \*-----\*

then

$$k = \frac{A}{60FT} \text{ m/s}$$

$$k = 4.98E-6 \text{ m/s}$$

Elapsed time, t mins	Depth to water, e m	Head of water, H m	Ht/Ho
0.00	6.30	4.26	1.000
1.00	6.47	4.09	0.960
1.50	6.53	4.03	0.946
2.00	6.61	3.95	0.927
3.00	6.71	3.85	0.904
4.00	6.80	3.76	0.883
5.00	6.89	3.67	0.862
6.00	6.95	3.61	0.847
7.00	7.03	3.53	0.829
9.00	7.13	3.43	0.805
10.00	7.17	3.39	0.796
11.00	7.21	3.35	0.786
12.00	7.25	3.31	0.777
13.00	7.28	3.28	0.770
15.00	7.33	3.23	0.758
16.00	7.38	3.18	0.746
17.00	7.41	3.15	0.739
18.00	7.45	3.11	0.730
20.00	7.51	3.05	0.716
21.00	7.54	3.02	0.709
23.00	7.59	2.97	0.697
24.00	7.62	2.94	0.690
25.00	7.64	2.92	0.685
27.00	7.68	2.88	0.676
28.00	7.70	2.86	0.671
30.00	7.75	2.81	0.660



REMARKS: Extrapolated T estimated as 82 minutes

15340

In-Situ Permeability Test

Bh No

Fig No

BH1A..

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<div>GROUND ENGINEERING</div> <div>L I M I T E D</div> <div>Tel: 01733-566566</div> <div>www.groundengineering.co.uk</div>			Site: PADDINGTON GREEN POLICE STATION, LONDON W2				BOREHOLE BH2					
			Date: 26/04/21 to 30/04/21		Hole Size: 200mm dia to 25.00m 150mm dia to 50.00m			526983 mE 181728 mN Ground Level: 31.60m. O.D.				
Samples and in-situ Tests			(Date)	Inst.	Description of Strata			Legend	Depth m	O.D. Level m		
Depth m	Type	Blows	Casing									
0.15 0.30-0.60 0.50 0.60-1.20	ES1 B1 ES2 B2	N5				MADE GROUND - CONCRETE paving slab on Lean mix concrete bedding. MADE GROUND - Light brown, slightly gravelly, silty SAND. Gravel of concrete and flint. MADE GROUND - CONCRETE. MADE GROUND - Weak CONCRETE with brick aggregate. MADE GROUND - Light brown and dark brown, locally clayey, silty SAND AND GRAVEL. Gravel of flint, brick, concrete and ash. MADE GROUND - Dark brown, very silty SAND AND GRAVEL with occasional brick cobbles. Gravel of brick, concrete, mortar and ceramic tile. MADE GROUND - Soft, becoming very soft, brown and dark brown mottled, slightly gravelly, silty CLAY. Gravel of flint, brick, mortar, charcoal and ash.		0.10	31.50			
0.80	ES3							0.18	31.42			
1.20-1.60 1.20 1.35-1.65 1.50 1.60-2.00	B3 ES4 C ES5 B4							0.27	31.33			
2.00-2.50 2.00 2.15-2.45	B5 ES6 C							0.45	31.15			
2.50	ES7							0.65	30.95			
3.00-3.50 3.00 3.15-3.45	B6 ES8 C	N2						1.20	30.40			
3.40 3.50-4.00 3.75	ES9 B7 ES10											
4.00-4.50	B8											
4.15-4.45 4.30 4.45	S ES11 D1											
5.10-5.60 5.25-5.55	B9 S											
5.55 5.60-6.00	D2 B10	N16										
5.90 6.00-6.45	ES12 U1											
6.65	D3											
7.00-7.50	B11											
7.50-7.95	U2											
7.95	D4	35										
8.40-9.00	B12											
9.00-9.30	B13											
9.20 9.30-9.80 9.45-9.75	ES13 B14 C											
	N14											
REMARKS 1. Pavement construction cored using diamond drilling equipment 2. Excavating a pit from 0.45m to 1.20m for 1.50 hours 3. Water added from 9.30m to 11.00m 4. Borehole cased to 12.00m depth (200mm) 5. Chiselling from 16.20m to 16.50m for 0.75 hours 6. Piezometer installed to 38.00m depth 7. Gas monitoring standpipes installed to 11.30m and 3.50m depth 8. Standpipe/piezometer water levels tabulated after borehole records								Project No 15340				
								Scale 1:50	Page 1/5			
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed Sample W - Water Sample S/C - SPT Spoon/Cone Water Strike Water Rise N/* - SPT Blows for 0.3m or given penetration ES - Environmental Sample V - Vane Shear Test Cohesion ( ) kPa Level on completion Level casing withdrawn Standpipe Level			Groundwater Strikes						Groundwater Observations			
			Depth m						Depth m			
			No	Struck	Rose to	Rate	Cased	Sealed	Date	Hole	Casing	Water
			1	37.00		seepage	12.00	not	26/04/21	1.20		dry
									27/04/21	1.20		dry
						27/04/21	12.00	11.50	dry			
						28/04/21	12.00	11.50	dry			
						28/04/21	31.50	12.00	dry			



<b>GROUND ENGINEERING</b> L I M I T E D Tel: 01733-566566 www.groundengineering.co.uk			Site: <b>PADDINGTON GREEN POLICE STATION, LONDON W2</b>				<b>BOREHOLE BH2</b> 526983 mE 181728 mN Ground Level: 31.60m. O.D.						
Samples and in-situ Tests			Date: 26/04/21 to 30/04/21		Hole Size: 200mm dia to 25.00m 150mm dia to 50.00m								
			(Date)	Inst.	Description of Strata		Legend	Depth m	O.D. Level m				
Depth m	Type	Blows	Casing										
10.50-11.00 10.50 10.65-10.95	B15 W1 C	N42	10.50		Dense, orange brown, slightly clayey, silty, very sandy GRAVEL. Gravel of angular to rounded flint and occasional quartzite.  (LYNCH HILL GRAVEL MEMBER)			10.00	21.60				
11.50-12.00 11.50 11.65-11.95	B16 ES14 S	N19	11.50		Stiff, fissured, grey brown CLAY with orange brown, iron-stained fissure planes. (WEATHERED LONDON CLAY FORMATION)			11.30	20.30				
11.95 12.00-12.20	D5 B17				Very stiff, closely fissured, grey brown CLAY with orange brown stained fissure planes.			12.00	19.60				
12.50-12.90	U3	50	12.00										
12.90	D6				(WEATHERED LONDON CLAY FORMATION)								
13.50	D7							13.40	18.20				
14.00-14.50 14.15-14.45 14.45	B18 S D8	N19	12.00		Stiff, closely fissured, locally very closely fissured, grey brown CLAY with rare gravel size pyrite nodules. Cobble size nodule of medium strong, grey, concretionary limestone at 16.20m depth.								
15.00	D9												
15.50-15.95	U4	60	12.00										
15.95 16.20-16.50 16.20-16.23	D10 B19 C	50*	12.00										
17.00	D11				(LONDON CLAY FORMATION)								
17.50-17.90	U5	65	12.00										
17.90	D12												
18.50	D13												
19.00-19.50 19.15-19.45 19.45	B20 S D14	N37	12.00										
20.00	D15							20.00	11.60				
REMARKS								Project No 15340 Scale 1:50 Page 2/5					
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed Sample W - Water Sample S/C - SPT Spoon/Cone Water Strike Water Rise				N/* - SPT Blows for 0.3m or given penetration ES - Environmental Sample V - Vane Shear Test Cohesion ( ) kPa Level on completion Level casing withdrawn Standpipe Level				Groundwater Strikes Depth m No Struck Rose to Rate Cased Sealed			Groundwater Observations Date Hole Casing Water		
								29/04/21 31.50 12.00 dry 29/04/21 47.00 12.00 dry 30/04/21 47.00 12.00 dry 30/04/21 50.00 12.00 dry					

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Date: 26/04/21  
to 30/04/21

BOREHOLE  
BH2

526983 mE 181728 mN  
Ground  
Level: 31.60m. O.D.

REMARKS	Project No 15340	
	Scale 1:50	Page 3/5

[illegible]

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Date: 26/04/21  
to 30/04/21

BOREHOLE  
BH2

526983 mE 181728 mN  
Ground  
level: 31.60m. O.D.

REMARKS	Project No 15340	
	Scale 1:50	Page 4/5

[illegible]



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			Date: 26/04/21 to 30/04/21		Hole Size: 200mm dia to 25.00m 150mm dia to 50.00m		526983 mE 181728 mN Ground Level: 31.60m. O.D.								
Samples and in-situ Tests			(Date)	Inst.	Description of Strata	Legend	Depth m	O.D. Level m							
Depth m	Type	Blows	Casing												
40.15-40.45	S	N55	12.00		Very stiff, closely fissured, grey brown CLAY with occasional light brown silt partings, some closely spaced at 40.00m depth		40.00	-8.40							
40.45	D42														
41.00	D43														
41.50-41.80	U13	85	12.00												
41.80	D44														
42.50	D45														
43.00-43.50	B28														
43.15-43.35	S	50*	12.00												
43.60	D46														
44.00	D47														
44.50-44.80	U14	90	12.00												
44.80	D48														
45.50	D49														
46.00-46.50	B29														
46.15-46.38	S	52*	12.00												
46.35	D50														
47.00	D51			(LONDON CLAY FORMATION)		48.00	-16.40								
48.00-48.50	B30														
48.15-48.34	S	50*	12.00												
48.30	D52														
49.00	D53			(LONDON CLAY FORMATION)		50.00	-18.40								
49.50-50.00	B31														
49.50-49.70	U15	100	12.00												
REMARKS						Borehole completed at 50.00m depth									
						Project No 15340									
						Scale 1:50 Page 5/5									
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed Sample W - Water Sample S/C - SPT Spoon/Cone Water Strike Water Rise				N/* - SPT Blows for 0.3m or given penetration ES - Environmental Sample V - Vane Shear Test Cohesion ( ) kPa Level on completion Level casing withdrawn Standpipe Level				Groundwater Strikes Depth m No Struck Rose to Rate Cased Sealed				Groundwater Observations Date Hole Casing Water			

Borehole Number	Depth (m)	Casing Depth (m)	Depth to Water (m)	Type of Test ★	Seating Drive Blows/ Penetration (mm)	Test Drive: 300mm Blows for each successive 75 mm Penetration				N Value	Extra- polated Value
BH1	1.20 – 1.65			C	2/150	1	2	2	2	7	
	2.00 – 2.04	1.50		C	25/30	50/10					
	2.50 – 2.50	2.50		C	25/0	50/0					
BH1A	6.00 – 6.45	6.00		S	7/150	7	7	8	9	31	
	7.00 – 7.45	6.50		S	9/150	9	10	10	11	40	
	8.10 – 8.55	8.00		C	5/150	7	8	14	21	50	
	9.10 – 9.55	9.00		C	6/150	7	12	15	18	52	
	10.60 – 10.98	10.50	10.50	C	7/150	9	17	20	4/5		
	11.80 – 12.25	11.80	10.56	C	3/150	3	3	4	4	14	
	13.90 – 14.35	13.90	12.50	S	4/150	4	4	6	7	21	
	17.00 – 17.45	14.00		S	5/150	6	6	10	9	31	
	20.00 – 20.45	14.00		S	7/150	8	9	10	10	37	
	23.00 – 23.45	14.00		S	9/150	9	9	10	10	38	
	26.00 – 26.45	14.00		S	9/150	9	9	10	11	39	
	29.00 – 29.45	14.00		S	9/150	10	10	11	12	43	
	32.00 – 32.45	14.00		S	10/150	12	13	13	14	52	
	35.00 – 35.45	14.00		S	14/150	10	14	15	16	55	
	38.00 – 38.43	14.00		S	14/150	12	13	15	10/50		
	41.00 – 41.43	14.00		S	13/150	12	12	15	11/50		
	44.00 – 44.40	14.00		S	15/150	13	15	16	6/20		
	47.10 – 47.48	14.00		S	15/150	15	17	20			
	50.70 – 51.00	14.00		S	22/150	28	22				
BH2	1.20 – 1.65			C	1/150	1	2	1	1	5	
	2.00 – 2.45	1.50		C	1/150	1	0	0	0	1	
	3.00 – 3.45	3.00		C	1/150	1	0	0	1	2	
	4.00 – 4.45	4.00		S	4/150	3	4	5	5	17	
	5.10 – 5.55	4.00		S	3/150	3	5	5	3	16	
	9.30 – 9.75	9.00		C	3/150	2	3	4	5	14	
	10.50 – 10.95	10.50	9.80	C	10/150	12	8	10	12	42	
	11.50 – 11.95	11.50		S	4/150	4	4	5	6	19	
	14.00 – 14.45	12.00		S	5/150	4	5	5	5	19	
	16.20 – 16.23	12.00		C	25/0	50/25					
	19.00 – 19.45	12.00		S	9/150	9	7	9	12	37	
	22.00 – 22.45	12.00		S	10/150	9	9	10	12	40	
	25.00 – 25.45	12.00		S	8/150	8	9	10	13	40	
	28.00 – 28.45	12.00		S	10/150	9	10	10	12	41	
	31.00 – 31.45	12.00		S	10/150	10	10	12	16	48	
	34.00 – 34.45	12.00		S	10/150	10	11	14	17	52	
	37.00 – 37.45	12.00		S	12/150	12	12	14	16	54	
	40.00 – 40.45	12.00		S	11/150	11	13	14	17	55	
	43.00 – 43.35	12.00		S	17/150	14	20	16/50			
	46.00 – 46.38	12.00		S	12/150	13	18	21			
	48.00 – 48.34	12.00		S	17/150	18	22	10/40			

\* C denotes test using a solid cone

S denotes test using a split barrel sampler

#### Results of Standard/Cone Penetration Tests

15340

PADDINGTON GREEN POLICE STATION, LONDON W2

**GROUND  
ENGINEERING**

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# SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

**Unit 8**  
**Orton Enterprise Centre**  
**Orton Southgate**  
**Peterborough**  
**PE2 6XU**

SPT Hammer Ref: SPT01  
 Test Date: 23/04/2021  
 Report Date: 23/04/2021  
 File Name: SPT01.spt  
 Test Operator: PR

## Instrumented Rod Data

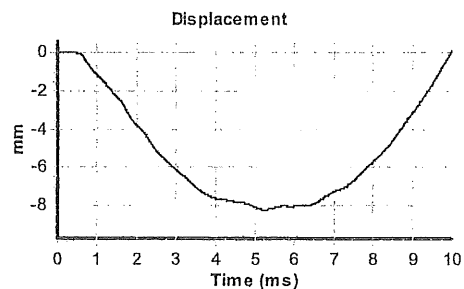
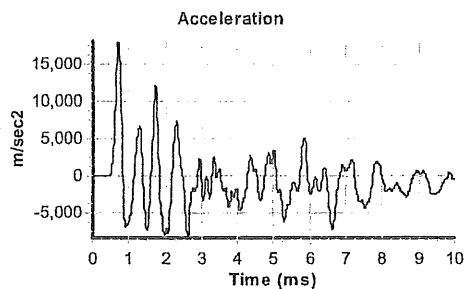
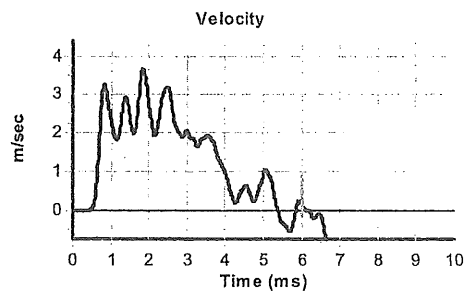
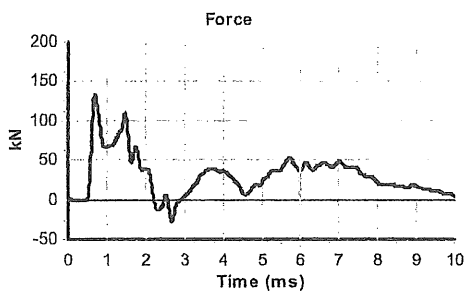
Diameter  $d_r$  (mm): 54  
 Wall Thickness  $t_r$  (mm): 6.3  
 Assumed Modulus  $E_a$  (GPa): 208  
 Accelerometer No.1: 11853  
 Accelerometer No.2: 10332

## SPT Hammer Information

Hammer Mass  $m$  (kg): 63.0  
 Falling Height  $h$  (mm): 760  
 SPT String Length  $L$  (m): 15.0

## Comments / Location

Recommended calibration interval is 6 months, maximum 12.



## Calculations

Area of Rod A ( $\text{mm}^2$ ): 944  
 Theoretical Energy  $E_{\text{theor}}$  (J): 473  
 Measured Energy  $E_{\text{meas}}$  (J): 298

**Energy Ratio  $E_r$  (%):** **63**

Signed: PR

Title: Operator



GROUND ENGINEERING LIMITED Tel: 01733-566566 www.groundengineering.co.uk			Site: PADDINGTON GREEN POLICE STATION, LONDON W2			WINDOW SAMPLE WS1				
Date: 05/05/21			Hole Size: 87mm dia to 2.00m 67mm dia to 4.00m 57mm dia to 6.00m			526886 mE 181731 mN Ground Level: 30.25m. O.D.				
Samples and in-situ Tests			(Date)	Inst.	Description of Strata	Legend	Depth m	O.D. Level m		
Depth m	Type	Result	Water							
0.50	ES1				MADE GROUND - CONCRETE slab.		0.34	29.91		
0.80	ES2				MADE GROUND - Orange brown, very clayey SAND AND GRAVEL. Gravel of flint.		0.60	29.65		
1.10	ES3				MADE GROUND - Stiff, orange brown, slightly sandy, slightly gravelly, silty CLAY. Gravel of flint.		1.20	29.05		
1.20-2.00	U1									
1.50	ES4									
2.00-3.00	U2				Stiff, orange brown, slightly sandy, silty CLAY. Gravel of sub-angular to sub-rounded flint with occasional pockets of light brown, silty, fine sand.					
2.00	ES5									
2.50	ES6				(LANGLEY SILT MEMBER)					
3.00-4.00	U3									
3.00	ES7									
3.50	ES8						3.60	26.65		
3.90	ES9				Light brown, silty SAND AND GRAVEL. Gravel of angular to sub-rounded flint. (LYNCH HILL GRAVEL MEMBER)		4.20	26.05		
4.00-5.00	U4									
4.50	ES10			Light brown, silty, gravelly, medium and coarse SAND. Gravel of sub-angular flint. (LYNCH HILL GRAVEL MEMBER)						
5.00-6.00	U5									
5.00	ES11									
5.50	ES12					6.00	24.25			
					Hole completed at 6.00m depth					
REMARKS 1. Basement car park floor slab cored using diamond drilling equipment 2. Starter pit excavated from 0.00m to 1.20m depth 3. Gas monitoring standpipe installed to 6.00m depth								Project No 15340		
								Scale 1:50      Page 1/1		
KEY D - Disturbed Sample      J - Jar Sample B - Bulk Sample          MP - Mackintosh Probe U - Undisturbed Sample    V - Vane Shear Test W - Water Sample          Cohesion ( ) kPa ∇ Water Strike            P ( ) - Hand Penetrometer ∇c Depth to Water        Cohesion ( ) kPa on completion        ∇s Standpipe Level					Groundwater Strikes Depth m No Struck   Rose to   Rate   Cased   Sealed			Groundwater Observations Date   Hole   Casing   Water		
					05/05/21   6.00 16/07/21   6.00 30/07/21   6.00 06/08/21   6.00 13/08/21   6.00			1.50   dry 1.50   dry 1.50   dry 1.50   dry		

<b>GROUND ENGINEERING</b> LIMITED Tel: 01733-566566 www.groundengineering.co.uk			Site: PADDINGTON GREEN POLICE STATION, LONDON W2				WINDOW SAMPLE <b>WS2</b>						
			Date: 05/05/21 to 13/05/21		Hole Size: 87mm dia to 2.00m 77mm dia to 4.00m 67mm dia to 5.70m		526912 mE 181739 mN Ground Level: 30.25m. O.D.						
Samples and in-situ Tests			(Date)	Inst.	Description of Strata	Legend	Depth m	O.D. Level m					
Depth m	Type	Result	Water										
0.40	ES1			MADE GROUND - CONCRETE slab.		0.34	29.91						
1.05	ES2			MADE GROUND - Brown and orange brown, clayey SAND AND GRAVEL. Gravel of flint.		0.45	29.80						
1.20-2.00	U1			MADE GROUND - Lean mix CONCRETE.		0.80	29.45						
2.00-3.00	U2			Firm, orange brown and grey mottled, slightly sandy, silty CLAY with rare gravel of sub-angular flint, and part decayed root traces.		2.15	28.10						
2.30	ES3			(LANGLEY SILT MEMBER)									
2.60	ES4			Firm, orange brown, slightly sandy, clayey SILT with occasional black carbonaceous traces.		2.50	27.75						
3.00-4.00	U3			Light brown, silty fine SAND with occasional clayey silt pockets to 3.00m depth									
4.00-5.00	U4			(LYNCH HILL GRAVEL MEMBER)									
5.00-5.70	U5					5.30	24.95						
5.40	ES5			Light brown, silty SAND AND GRAVEL. Gravel of sub-angular to sub-rounded flint.		5.70	24.55						
				Hole abandoned at 5.70m depth									
REMARKS 1. Basement car park floor slab cored using diamond drilling equipment 2. Starter pit excavated to 1.20m depth 3. Unable to advance sampler below 5.70m depth, hole abandoned 4. Gas monitoring standpipe installed to 3.00m depth								Project No 15340					
								Scale 1:50	Page 1/1				
KEY D - Disturbed Sample      J - Jar Sample B - Bulk Sample          MP - Mackintosh Probe U - Undisturbed Sample    V - Vane Shear Test W - Water Sample          Cohesion ( ) kPa ∇ Water Strike            P( ) - Hand Penetrometer ∇c Depth to Water        Cohesion ( ) kPa on completion        ∇s Standpipe Level				Groundwater Strikes				Groundwater Observations					
				Depth m				Date					
				No	Struck	Rose to	Rate	Cased	Sealed	Date	Hole	Casing	Water
										05/05/21	0.55		dry
										13/05/21	5.70		dry
										16/07/21	3.00	1.00	dry
										30/07/21	3.00	1.00	dry
										06/08/21	3.00	1.00	dry

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Date: 06/05/21			Hole Size: 87mm dia to 2.00m 67mm dia to 4.00m 57mm dia to 5.70m				526938 mE 181746 mN Ground Level: 30.25m. O.D.					
Samples and in-situ Tests			(Date)	Inst.	Description of Strata		Legend	Depth m	O.D. Level m			
Depth m	Type	Result	Water									
0.40 0.70 1.00 1.20-2.00 1.35  1.80 2.00-3.00  2.40  2.90 3.00-4.00  3.40  3.90 4.00-5.00  4.40  4.90 5.00-5.70  5.40 5.60	ES1			MADE GROUND - Reinforced CONCRETE slab with 8mm diameter rebar at 0.13m and 0.16m depth.			0.30	29.95				
	ES2			MADE GROUND - Lean mix CONCRETE. Aggregate of flint and quartzite.			0.50	29.75				
	ES3			MADE GROUND - Stiff, brown, orange brown and red brown mottled, slightly sandy, silty CLAY with rare gravel of sub-angular flint.			1.20	29.05				
	U1			MADE GROUND - Dark brown, slightly clayey SAND AND GRAVEL. Gravel of flint and quartzite.			1.50	28.75				
	ES4			Firm, brown and orange brown mottled, slightly sandy, silty CLAY.			2.25	28.00				
	ES5			(LANGLEY SILT MEMBER)			2.60	27.65				
	U2			Light brown and orange brown, very silty, fine SAND. (LYNCH HILL GRAVEL MEMBER)			2.60	27.65				
	ES6			Light brown, silty, fine SAND.								
	ES7			(LYNCH HILL GRAVEL MEMBER)								
	U3											
	ES8											
	ES9											
	U4											
ES10												
ES11												
U5												
ES12												
ES13												
					Light brown, slightly silty SAND AND GRAVEL. Gravel of angular to sub-rounded flint. (LYNCH HILL GRAVEL MEMBER)			5.50	24.75			
					Hole abandoned at 5.70m depth			5.70	24.55			
REMARKS 1. Basement car park floor slab cored using diamond drilling equipment 2. Starter pit excavated to 1.20m depth 3. Unable to advance sampler below 5.70m depth, hole abandoned 4. Gas monitoring standpipe installed to 5.70m depth								Project No 15340				
								Scale 1:50	Page 1/1			
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed Sample W - Water Sample ∇ Water Strike ∇c Depth to Water on completion J - Jar Sample MP - Mackintosh Probe V - Vane Shear Test Cohesion ( ) kPa P ( ) - Hand Penetrometer Cohesion ( ) kPa ∇s Standpipe Level			Groundwater Strikes				Groundwater Observations					
			Depth m				Depth m					
			No	Struck	Rose to	Rate	Cased	Sealed	Date	Hole	Casing	Water
									06/05/21	5.70		dry
									30/07/21	5.70	2.50	dry



<b>GROUND ENGINEERING</b> LIMITED Tel: 01733-566566 www.groundengineering.co.uk			Site: <b>PADDINGTON GREEN POLICE STATION, LONDON W2</b>				<b>WINDOW SAMPLE WS4</b>						
			Date: <b>06/05/21</b>		Hole Size: 87mm dia to 2.00m 67mm dia to 4.00m 57mm dia to 5.70m		526953 mE 181761 mN Ground Level: 30.25m. O.D.						
Samples and in-situ Tests			(Date)	Inst.	Description of Strata		Legend	Depth m	O.D. Level m				
Depth m	Type	Result	Water										
0.40	ES1				MADE GROUND - Reinforced CONCRETE slab with 6mm diameter rebar at 0.11m, 0.15m and 0.16m depth. MADE GROUND - Orange brown, clayey SAND AND GRAVEL. Gravel of sub-angular to rounded flint.			0.24	30.01				
0.80	ES2		MADE GROUND - Soft, brown, dark brown and orange brown mottled, slightly sandy, gravelly, silty CLAY. Gravel of flint and concrete.			0.60	29.65						
1.15	ES3		Stiff, brown and orange brown mottled, sandy, silty CLAY with rare gravel of sub-angular flint, and rare light brown sand pockets.			1.10	29.15						
1.20-2.00	U1												
1.40	ES4												
1.90	ES5		(LANGLEY SILT MEMBER)										
2.00-3.00	U2												
2.40	ES6		Light brown and orange brown, silty fine SAND.			2.50	27.75						
2.90	ES7												
3.00-4.00	U3												
3.40	ES8												
3.90	ES9		(LYNCH HILL GRAVEL MEMBER)										
4.00-5.00	U4												
4.40	ES10												
4.90	ES11												
5.00-6.00	U5												
5.60	ES12				Light brown, silty SAND AND GRAVEL. Gravel of angular to sub-angular flint. (LYNCH HILL GRAVEL MEMBER)		5.40	24.85					
					Hole abandoned at 5.70m depth		5.70	24.55					
REMARKS 1. Basement car park floor slab cored using diamond drilling equipment 2. Starter pit excavated to 1.20m depth 3. Unable to advance sampler below 5.70m depth, hole abandoned 4. Gas monitoring standpipe installed to 5.70m depth													
								Project No 15340					
								Scale 1:50	Page 1/1				
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed Sample W - Water Sample ∇ Water Strike ∇c Depth to Water on completion J - Jar Sample MP - Mackintosh Probe V - Vane Shear Test Cohesion ( ) kPa P ( ) - Hand Penetrometer Cohesion ( ) kPa ∇s Standpipe Level				Groundwater Strikes Depth m No Struck Rose to Rate Cased Sealed			Groundwater Observations Date Hole Casing Water						
				No	Struck	Rose to	Rate	Cased	Sealed	Date	Hole	Casing	Water
										06/05/21	5.70		
										30/07/21	5.70	2.50	dry
										06/08/21	5.70	2.50	dry
										13/08/21	5.70	2.50	dry

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Date: 04/05/21			Hole Size: 87mm dia to 2.00m 67mm dia to 4.00m 57mm dia to 6.00m				526945 mE 181765 mN Ground Level: 32.21m. O.D.						
Samples and in-situ Tests			(Date)	Inst.	Description of Strata		Legend	Depth m	O.D. Level m				
Depth m	Type	Result	Water										
0.30	ES1			MADE GROUND - CONCRETE.		0.23	31.98						
0.45	ES2			MADE GROUND - Brown, slightly gravelly SAND. Gravel of concrete.		0.40	31.81						
0.70	ES3			MADE GROUND - Light grey, silty SAND AND GRAVEL. Gravel of concrete and occasional plastic fragments.		0.50	31.71						
1.10	ES4			MADE GROUND - Firm, dark brown, slightly sandy, slightly gravelly, silty CLAY. Gravel of flint, brick, concrete and ash.		0.90	31.31						
1.20-2.00	U1			MADE GROUND - Firm, brown, slightly gravelly, sandy, silty CLAY. Gravel of brick and ash.		1.20	31.01						
1.30	ES5			MADE GROUND - Firm, black SILT of ash.		1.50	30.71						
1.75	ES6			MADE GROUND - Brown and grey, clayey SAND AND GRAVEL. Gravel of flint, brick and ash.									
2.00-3.00	U2												
2.25	ES7												
2.75	ES8												
3.00-4.00	U3												
3.25	ES9												
3.75	ES10												
4.00-5.00	U4												
4.25	ES11				Firm, brown and orange brown mottled, silty CLAY.		4.00	28.21					
4.75	ES12				(LANGLEY SILT MEMBER)		4.90	27.31					
5.00-6.00	U5				Firm, brown and orange brown mottled, sandy, silty CLAY.								
5.25	ES13				(LANGLEY SILT MEMBER)		6.00	26.21					
5.75	ES14												
Hole completed at 6.00m depth													
REMARKS 1. Concrete hardstanding cored using diamond drilling equipment 2. Starter pit excavated to 1.20m depth 3. Gas monitoring standpipe installed to 6.00m depth								Project No 15340					
								Scale 1:50	Page 1/1				
KEY D - Disturbed Sample J - Jar Sample B - Bulk Sample MP - Mackintosh Probe U - Undisturbed Sample V - Vane Shear Test W - Water Sample Cohesion ( ) kPa ▽ Water Strike P( ) - Hand Penetrometer ▽c Depth to Water Cohesion ( ) kPa on completion ▽s Standpipe Level				Groundwater Strikes				Groundwater Observations					
				Depth m				Depth m					
				No	Struck	Rose to	Rate	Cased	Sealed	Date	Hole	Casing	Water
										04/05/21	6.00		dry
										16/07/21	6.00	4.00	dry
										30/07/21	6.00	4.00	dry
										06/08/21	6.00	4.00	dry
										13/08/21	6.00	4.00	dry

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Date: 04/05/21

526964 mE	181769 mN
Ground level:	32.10m. O.D.

REMARKS	1. Concrete hardstanding cored using diamond drilling equipment 2. Starter pit excavated to 1.20m depth 3. Gas monitoring standpipe installed to 3.75m depth
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Project No  
15340

Scale 1:50	Page 1/1
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KEY		Groundwater Strikes						Groundwater Observations			
		Depth m						Date	Depth m		
		No	Struck	Rose to	Rate	Cased	Sealed		Hole	Casing	Water
D - Disturbed Sample	J - Jar Sample							04/05/21	6.00		dry
B - Bulk Sample	MP - Mackintosh Probe							16/07/21	3.75	1.00	dry
U - Undisturbed Sample	V - Vane Shear Test							30/07/21	3.75	1.00	dry
W - Water Sample	Cohesion ( ) kPa							06/08/21	3.75	1.00	dry
∇ Water Strike	P ( ) - Hand Penetrometer							13/08/21	3.75	1.00	dry
∇c Depth to Water on completion	Cohesion ( ) kPa										
	∇s Standpipe Level										

<b>GROUND ENGINEERING</b> L I M I T E D Tel: 01733-566566 www.groundengineering.co.uk			Site: <b>PADDINGTON GREEN POLICE STATION, LONDON W2</b>				<b>WINDOW SAMPLE WS7</b> 526963 mE 181776 mN Ground Level: 32.24m. O.D.					
Samples and in-situ Tests			Date: 04/05/21		Hole Size: 87mm dia to 2.00m 67mm dia to 4.00m 57mm dia to 6.00m							
			(Date)	Inst.	Description of Strata			Legend	Depth m	O.D. Level m		
Depth m	Type	Result	Water									
0.20	ES1				MADE GROUND - CONCRETE paving slab.				0.05	32.19		
0.50	ES2		MADE GROUND - Brown, gravelly SAND. Gravel of concrete.				0.40		31.84			
0.80	ES3		MADE GROUND - Dark brown, silty SAND AND GRAVEL with occasional cobbles of concrete. Gravel of brick, concrete and flint.				1.00	31.24				
1.10	ES4		MADE GROUND - Brown, light brown and orange brown, silty SAND AND GRAVEL with rare cobbles of concrete. Gravel of flint and quartzite.									
1.20-2.00	U1											
1.30	ES5											
1.80	ES6		MADE GROUND - Brown, dark grey and grey, clayey SAND AND GRAVEL. Gravel of concrete, brick, flint and asphalt.			2.20	30.04					
2.00-3.00	U2											
2.35	ES7											
2.55	ES8		MADE GROUND - Light brown, sandy GRAVEL. Gravel of concrete.			2.50	29.74					
2.90	ES9		MADE GROUND - Soft, brown, slightly gravelly, silty CLAY. Gravel of brick, mortar and ash.			2.60	29.64					
3.00-4.00	U3		Light brown and orange brown, very silty, fine SAND with rare gravel of sub-angular flint.			3.40	28.84					
3.60	ES10											
4.00-5.00	U4											
4.10	ES11		(LYNCH HILL GRAVEL MEMBER)			6.00	26.24					
4.60	ES12											
5.00-6.00	U5											
5.10	ES13		Hole completed at 6.00m depth									
5.60	ES14											
REMARKS 1. Concrete paving cored using diamond drilling equipment 2. Starter pit excavated to 1.20m depth 3. Gas monitoring standpipe installed to 3.40m depth										Project No 15340		
										Scale 1:50	Page 1/1	
KEY D - Disturbed Sample J - Jar Sample B - Bulk Sample MP - Mackintosh Probe U - Undisturbed Sample V - Vane Shear Test W - Water Sample Cohesion ( ) kPa ▽ Water Strike P ( ) - Hand Penetrometer ▽c Depth to Water Cohesion ( ) kPa on completion ▽s Standpipe Level				Groundwater Strikes Depth m No Struck Rose to Rate Cased Sealed						Groundwater Observations Date Hole Casing Water		
				04/05/21 6.00 30/07/21 3.40 1.00 dry dry								



GROUND ENGINEERING LIMITED Tel: 01733-566566 www.groundengineering.co.uk			Site: PADDINGTON GREEN POLICE STATION, LONDON W2			WINDOW SAMPLE WS8					
Samples and in-situ Tests			Date: 05/05/21	Hole Size: 87mm dia to 2.00m 67mm dia to 4.00m 57mm dia to 6.00m			526991 mE 181734 mN Ground Level: 31.88m. O.D.				
Depth m	Type	Result	(Date) Water	Inst.	Description of Strata	Legend	Depth m	O.D. Level m			
0.30	ES1				MADE GROUND - CONCRETE paving slab.		0.05	31.83			
0.60	ES2				MADE GROUND - CONCRETE.			0.10	31.78		
0.90	ES3				MADE GROUND - Brown and dark brown, slightly silty SAND AND GRAVEL with geotextile membrane at base. Gravel of flint and concrete.			0.40	31.48		
1.10	ES4				MADE GROUND - Soft, friable, brown, dark brown and dark grey mottled, slightly sandy, gravelly, silty CLAY. Gravel of brick, flint, concrete, slate and ceramic pipe fragments.						
1.20-2.00	U1										
1.60	ES5										
2.00-3.00	U2										
2.10	ES6										
2.35	ES7										
2.70	ES8										
3.00-4.00	U3										
3.20	ES9										
3.70	ES10										
4.00-5.00	U4										
4.20	ES11										
4.80	ES12										
5.00-6.00	U5										
5.50	ES13										
6.00	ES14										
					Hole completed at 6.00m depth						
REMARKS								Project No			
1. Concrete paving cored using diamond drilling equipment								15340			
2. Starter pit excavated to 1.20m depth											
3. Gas monitoring standpipe installed to 3.75m depth											
								Scale			
								1:50			
								Page			
								1/1			
KEY				Groundwater Strikes				Groundwater Observations			
D - Disturbed Sample				J - Jar Sample				Date			
B - Bulk Sample				MP - Mackintosh Probe				Hole			
U - Undisturbed Sample				V - Vane Shear Test				Casing			
W - Water Sample				Cohesion ( ) kPa				Water			
Vs Water Strike				P ( ) - Hand Penetrometer							
Vc Depth to Water on completion				Cohesion ( ) kPa							
				Vs Standpipe Level							
				No				Date			
				Struck				16/07/21			
				Rose to				3.75			
				Rate				30/07/21			
				Cased				3.75			
				Sealed				06/08/21			
								13/08/21			
								6.00			
								3.75			
								2.00			
								dry			
								dry			
								dry			
								dry			
								2.88			


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Date: 13/05/21

Ground Level: 30.70m. O.D.

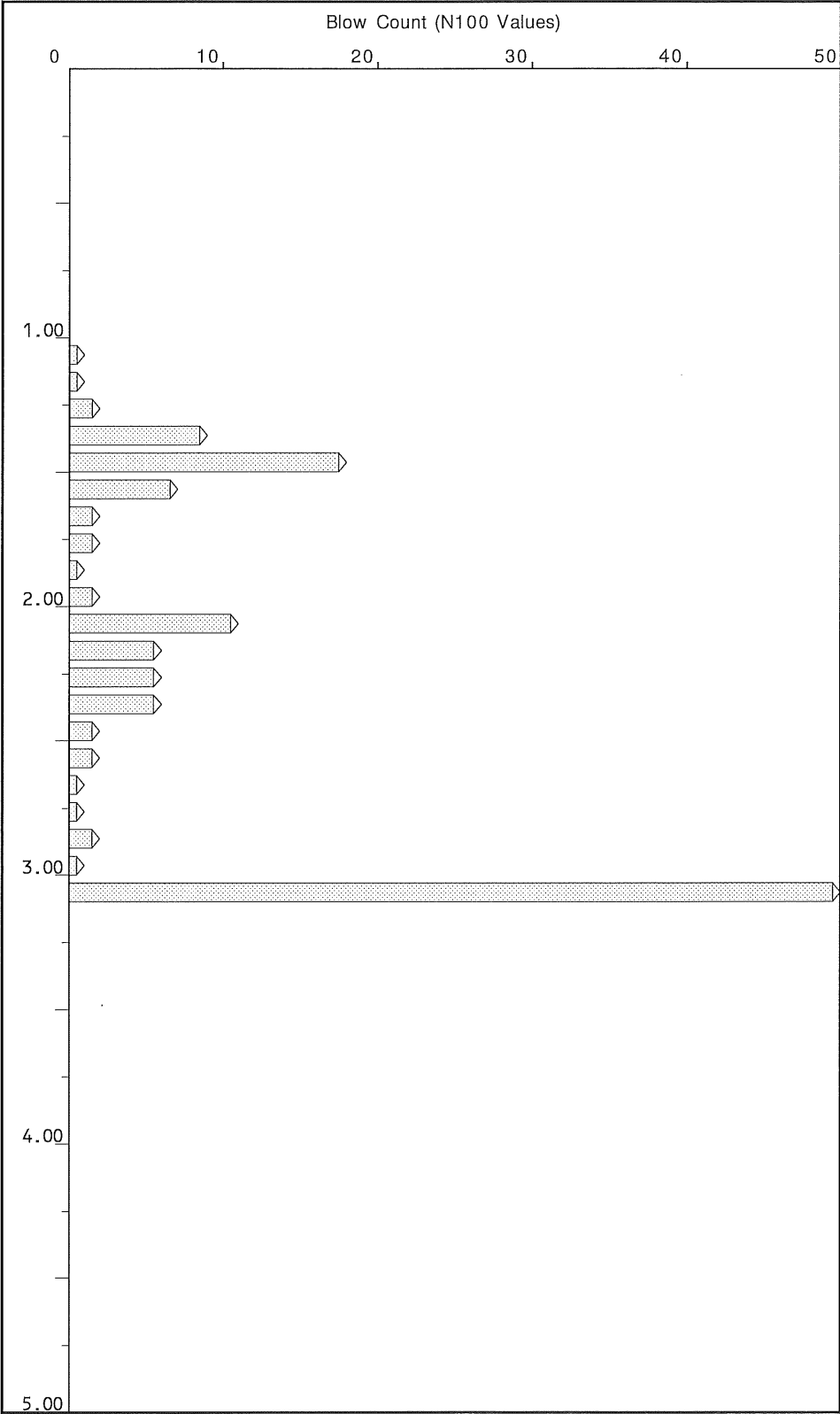
REMARKS 1. Hardstanding found to be at least 0.45m depth using masonry drill	Project No 15340	
	Scale 1:25	Page 1/1

<b>KEY</b> D - Disturbed Sample B - Bulk Sample U - Undisturbed Sample W - Water Sample S/C - SPT Spoon/Cone ▽ Water Strike ▽ Water Rise	N/* - SPT Blows for 0.3m or given penetration ES - Environmental Sample V - Vane Shear Test Cohesion ( ) kPa ▽c Level on completion c ▽w Level casing withdrawn ▽s Standpipe Level	Groundwater Strikes						Groundwater Observations			
		Depth m						Date	Depth m		
		No	Struck	Rose to	Rate	Cased	Sealed		Hole	Casing	Water
							13/05/21	0.45			dry




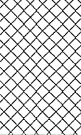
<b>GROUND ENGINEERING</b> LIMITED Tel: 01733-566566 www.groundengineering.co.uk			Site: PADDINGTON GREEN POLICE STATION, LONDON W2				BOREHOLE DP2		
			Date: 13/05/21		Hole Size: 240mm dia to 0.30m 200mm dia to 0.88m 50mm dia to 3.00m			Ground Level: 31.50m. O.D.	
Samples and in-situ Tests			(Date)	Description of Strata			Legend	Depth m	O.D. Level m
Depth m	Type	Blows	Casing						
0.70	D1			MADE GROUND - Asphalt with 3 plastic cased copper wires at base.				0.07	31.43
				MADE GROUND - Light grey matrix supported CONCRETE. Aggregate of flint, 10mm rebar at 0.20m depth with plastic cased copper wire at 0.20m depth.				0.28	31.22
				MADE GROUND - Light brown matrix supported CONCRETE with 7mm rebar at 0.48m depth. Aggregate of flint and quartzite with 2-4% voids up to 6mm in diameter.				0.88	30.62
				Probe.					
				Hole abandoned				3.00	28.50
REMARKS 1. Hardstanding cored to 0.88m depth, using diamond drilling equipment 2. Dynamic probing from underside of concrete ramp to 3.00m depth 3. Probe rods bent by presumed concrete rubble at about 1.50m depth, unable to re-centre probe rods and drive probe below 3.00m depth, hole abandoned								Project No 15340	
								Scale 1:25	Page 1/1
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed Sample W - Water Sample S/C - SPT Spoon/Cone Water Strike Water Rise			N/* - SPT Blows for 0.3m or given penetration ES - Environmental Sample V - Vane Shear Test Cohesion ( ) kPa Level on completion Level casing withdrawn Standpipe Level			Groundwater Strikes Depth m No Struck Rose to Rate Cased Sealed		Groundwater Observations Date Hole Casing Water	
						13/05/21 0.88		dry	

<b>GROUND ENGINEERING</b> LIMITED Tel: 01733-566566 www.groundengineering.co.uk	<b>DYNAMIC PROBE PENETRATION TEST</b>	Date 13/05/21	<b>PROBE No DP2</b> Sheet 1 of 1
		Project Number 15340	
Method BS 1377 : Part 9 : Clause 3.2 (DPSH)	Client BERKELEY HOMES LTD	Site PADDINGTON GREEN POLICE STATION, LONDON W2	

Depth (m)	Torque	Blows (100mm)
1.1		1
1.2		1
1.3		2
1.4		9
1.5		18
1.6		7
1.7		2
1.8		2
1.9		1
2.0		2
2.1		11
2.2		6
2.3		6
2.4		6
2.5		2
2.6		2
2.7		1
2.8		1
2.9		2
3.0		1
3.1		50

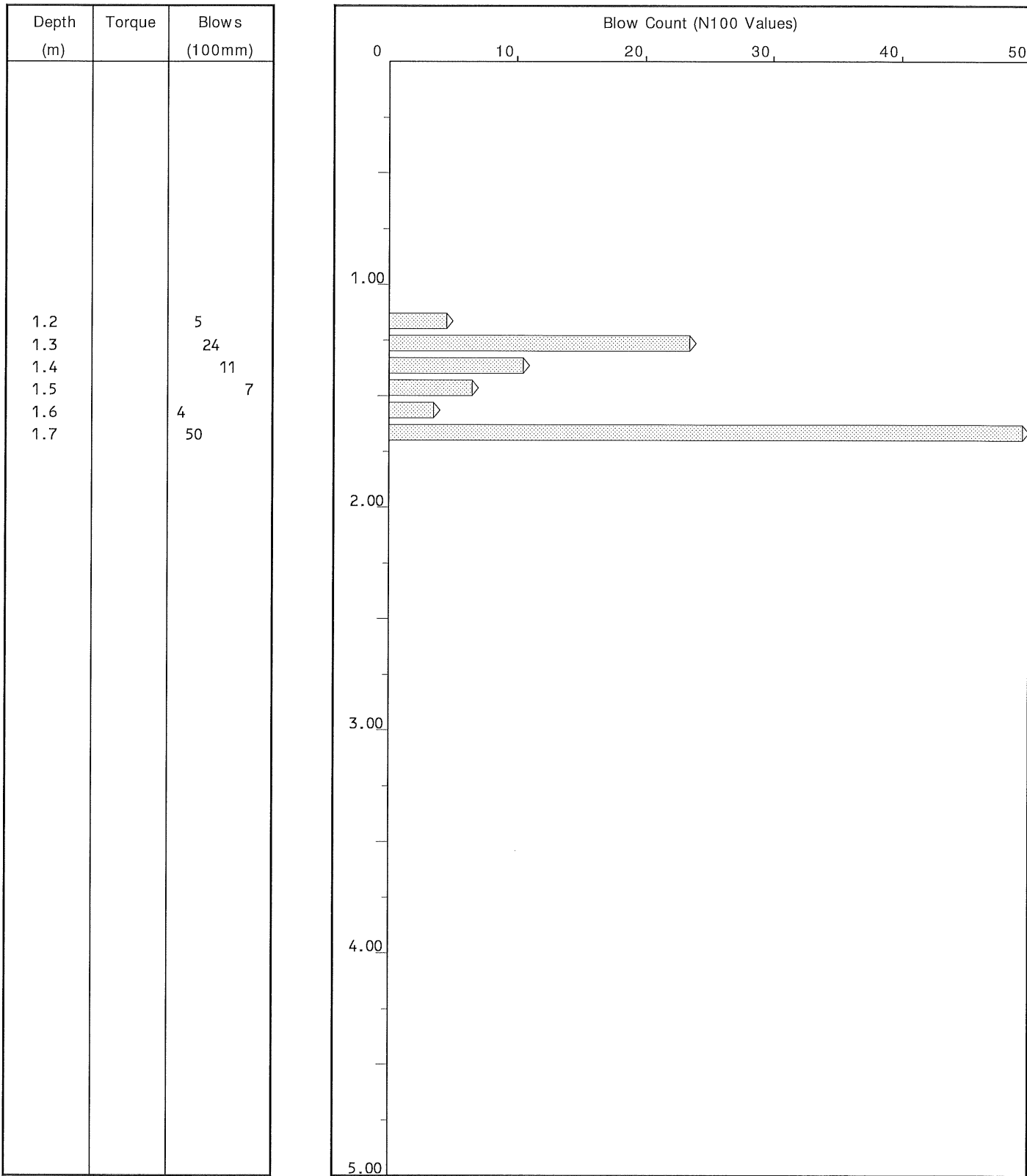


Remarks :	Hammer	63.5 kg	15340
	Standard Drop	750 mm	
	Cone	50 mm dia	
	Rod	8kg / 35 mm	

<b>GROUND ENGINEERING</b> L I M I T E D Tel: 01733-566566 www.groundengineering.co.uk			Site: PADDINGTON GREEN POLICE STATION, LONDON W2				BOREHOLE DP3			
			Date: 13/05/21		Hole Size: 240mm dia to 0.50m 150mm dia to 1.20m 50mm dia to 1.70m		Ground Level: 32.20m. O.D.			
Samples and in-situ Tests			(Date)	Description of Strata			Legend	Depth m	O.D. Level m	
Depth m	Type	Blows	Casing							
0.60	ES1			MADE GROUND - Light brown, matrix supported CONCRETE. Aggregate of flint, 10mm rebar at 0.08m with 3% voids up to 14mm in diameter.		0.30	31.90			
				MADE GROUND - Lean mix CONCRETE.		0.50	31.70			
				MADE GROUND - Brown, silty gravelly SAND with occasional cobbles of brick. Gravel of brick and concrete.		0.70	31.50			
0.95	ES2			MADE GROUND - Light brown and light grey, silty SAND AND GRAVEL with occasional cobbles of concrete. Gravel of concrete and brick.		1.20	31.00			
				Probe.						
				Hole abandoned on concrete obstruction		1.70	30.50			
REMARKS 1. Hardstanding cored to 0.50m depth, using diamond drilling equipment and starter pit dug to 1.20m below ground level 2. Dynamic probing from base of starter pit to refusal at 1.70m depth depth, hole abandoned								Project No 15340 Scale 1:25    Page 1/1		
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed Sample W - Water Sample S/C - SPT Spoon/Cone Water Strike Water Rise N/* - SPT Blows for 0.3m or given penetration ES - Environmental Sample V - Vane Shear Test Cohesion ( ) kPa Level on completion Level casing withdrawn Standpipe Level				Groundwater Strikes			Groundwater Observations			
				Depth m			Depth m			
				No	Struck	Rose to	Rate	Cased	Sealed	Date
							13/05/21	1.20		dry



<b>GROUND ENGINEERING</b> LIMITED Tel: 01733-566566 www.groundengineering.co.uk	<b>DYNAMIC PROBE PENETRATION TEST</b>	Date 13/05/21	<b>PROBE No DP3</b> Sheet 1 of 1
		Project Number 15340	
Method BS 1377 : Part 9 : Clause 3.2 (DPSH)	Client BERKELEY HOMES LTD	Site PADDINGTON GREEN POLICE STATION, LONDON W2	



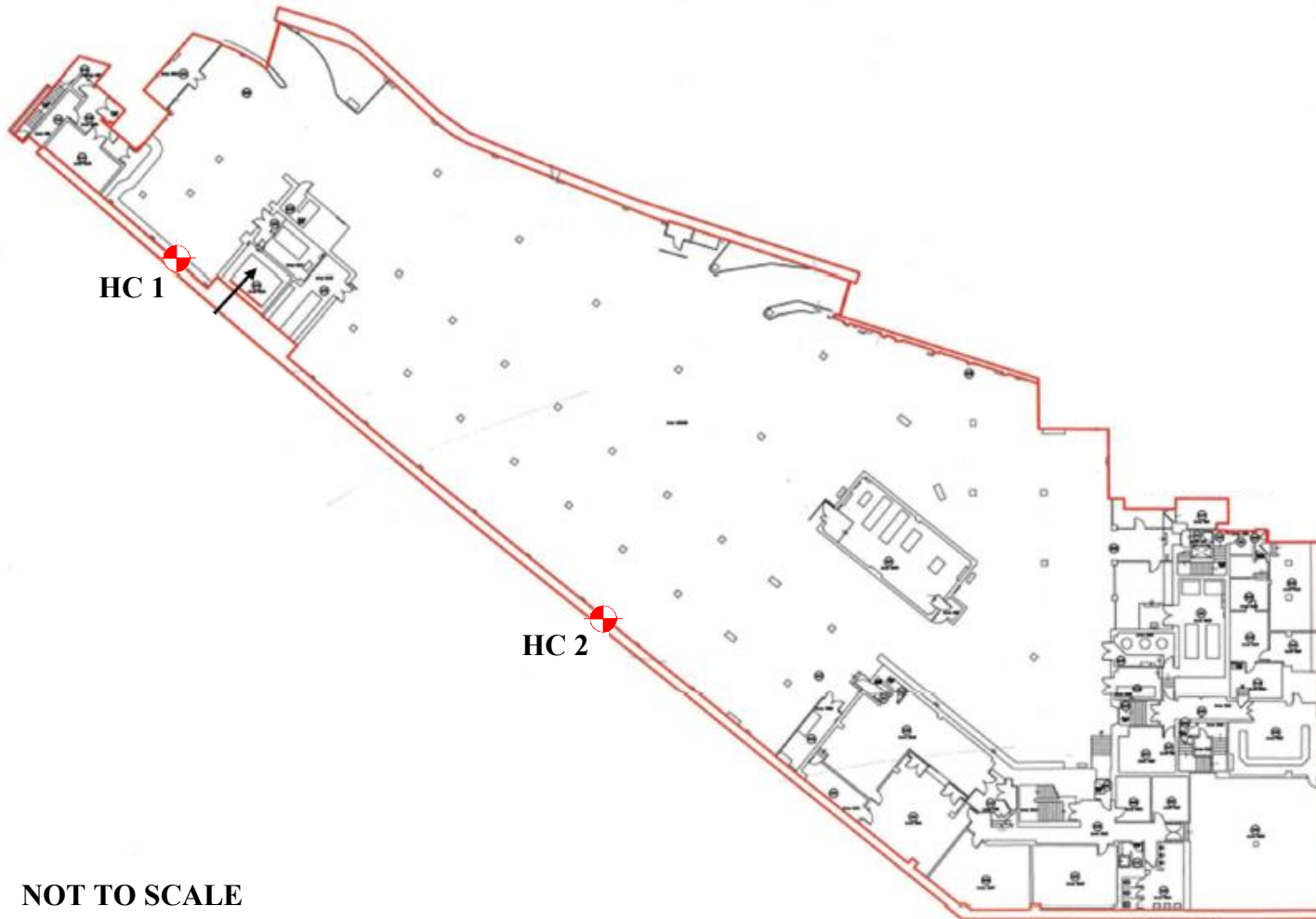
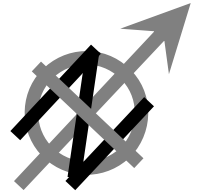
Remarks :	Hammer	63.5 kg	15340
	Standard Drop	750 mm	
	Cone	50 mm dia	
	Rod	8kg / 35 mm	

## **APPENDIX 4**

### **RETAINING WALL INVESTIGATION**


# Exploratory Hole Location Plan

Based on a plan provided by the client



NOT TO SCALE

Key –

Horizontal Core position 

Project	Paddington Green Police Station, London W2	GROUND ENGINEERING LIMITED	Project No.
Client	Berkeley Homes Limited	Peterborough	C15340
		Tel : 01733 566566	

<b>GROUND ENGINEERING</b> LIMITED Tel: 01733-566566 www.groundengineering.co.uk			Site: PADDINGTON GREEN POLICE STATION, LONDON W2				BOREHOLE HC1				
			Date: 23/06/21		Hole Size: 100mm dia to 0.80m		Ground Level:				
Samples and in-situ Tests			(Date) Casing	Description of Strata	Legend	Depth m	O. D. Level m				
Depth m	Type	Blows									
0.14-0.55	C1			MADE GROUND - BRICKWORK.		0.10					
				VOID.		0.14					
0.55-0.75	C2			MADE GROUND - Medium strong, light grey, matrix supported CONCRETE with aggregate of angular to sub-rounded flint; 1-3% voids of up to 2mm diameter; and 10mm diameter steel reinforcement at 0.68m distance.							
0.80	D1			MADE GROUND - Brown, clayey, sandy GRAVEL with occasional cobbles of brick. Gravel of flint and brick fragments.		0.75					
				Hole completed at 0.80m distance		0.80					
REMARKS 1. Please note, this core was undertaken horizontally and all 'depths' refer to distance from wall face 2. C = Core sample								Project No 15340			
								Scale 1:25	Page 1/1		
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed Sample W - Water Sample S/C - SPT Spoon/Cone Water Strike Water Rise			N/* - SPT Blows for 0.3m or given penetration ES - Environmental Sample V - Vane Shear Test Cohesion ( ) kPa Level on completion Level casing withdrawn Standpipe Level			Groundwater Strikes Depth m No Struck Rose to Rate Cased Sealed			Groundwater Observations Date Hole Casing Water		

## Horizontal Core HC 1 Photograph



**Project :** Paddington Green Police Station, London W2

**Client :** Berkeley Homes Limited

**GROUND  
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Peterborough

Tel : 01733 566566

**Project No.**

**C15340**



<b>GROUND ENGINEERING</b> L I M I T E D Tel: 01733-566566 www.groundengineering.co.uk			Site: PADDINGTON GREEN POLICE STATION, LONDON W2				BOREHOLE HC2					
Date: 23/06/21			Hole Size: 100mm dia to 0.94m				Ground Level:					
Samples and in-situ Tests			(Date) Casing	Description of Strata			Legend	Depth m	O. D. Level m			
Depth m	Type	Blows										
0.21-0.65	C1			MADE GROUND - BRICKWORK.				0.10				
				MADE GROUND - MORTAR.				0.21				
0.65-0.85	C2			MADE GROUND - Medium strong, light brown, matrix supported CONCRETE with aggregate of angular to sub-rounded flint; 2-4% voids of up to 4mm diameter, 20mm diameter steel reinforcement at 0.29m, and 0.64m distance, and 12mm diameter steel reinforcement at 0.31m, 0.42m, 0.50m and 0.62m distance.				0.73				
0.85-0.94	C3			MADE GROUND - Medium strong, light brown, matrix supported CONCRETE with aggregate of angular to sub-rounded flint; 2-3% voids up to 6mm diameter; and 4mm diameter steel reinforcement at 0.84m distance.				0.94				
				Hole abandoned at 0.94m distance								
REMARKS 1. Please note, this core was undertaken horizontally and all 'depths' refer to distance from wall face 2. Hole abandoned at 0.94m distance on steel sheet pile 3. C = Core sample												
								Project No 15340				
								Scale 1:25	Page 1/1			
KEY			N/* - SPT Blows for 0.3m or given penetration				Groundwater Strikes			Groundwater Observations		
D - Disturbed Sample B - Bulk Sample U - Undisturbed Sample W - Water Sample S/C - SPT Spoon/Cone Water Strike Water Rise			ES - Environmental Sample V - Vane Shear Test Cohesion ( ) kPa Level on completion Level casing withdrawn Standpipe Level			Depth m No Struck Rose to Rate Cased Sealed			Depth m Date Hole Casing Water			

## Horizontal Core HC 2 Photographs



**Project :** Paddington Green Police Station, London W2

**Client :** Berkeley Homes Limited

**GROUND  
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Peterborough

Tel : 01733 566566

**Project No.**

**C15340**

LABORATORY TEST RESULTS

CONTRACT PADDINGTON GREEN POLICE STATION, LONDON W2

Bore-hole	Sample	Depth m	Classification				Density		Triaxial Compression					Sulphates (SO <sub>4</sub> )				Remarks	
			Liquid Limit %	Plastic Limit %	Plasticity Index %	Moisture Content %	Bulk Mg/m <sup>3</sup>	Dry Mg/m <sup>3</sup>	Type	Principal Stress Difference kPa	Cell Pressure kPa	Shear Strength kPa	Angle of Shear Resistance degrees	Soil		Water			pH
														Total % Dry Wt.	Aqueous Extract mg/l	mg/l			
HC1	C1	0.14 – 0.55																	Uniaxial Compression Strength = 39.34 MN/m2
	C2	0.55 – 0.75																	Uniaxial Compression Strength = 42.46 MN/m2
	C1	0.21 – 0.65																	Uniaxial Compression Strength = 26.79 MN/m2
	C2	0.65 – 0.85																	Uniaxial Compression Strength = 30.25 MN/m2

## **APPENDIX 5**

### **MONITORING RESULTS**

# Groundwater/Gas Monitoring Post Fieldwork Record

**GROUND ENGINEERING LIMITED**

**Site:** Paddington Green Police Station, London W2

**Report Ref:** C15340

Date	Borehole	Methane (% v/v)		Carbon Dioxide (% v/v)		Oxygen (% v/v)		Flow Rate (l/hr)	Atmosph. Pressure (mb)	Depth of Well (m)	Depth to Groundwater (m)	Comments
		Peak	Steady	Peak	Steady	Min.	Max.					
16/07/21	BH 1A (stp)	<0.1	<0.1	0.6	0.6	18.3	18.3	<0.1	1025	10.00	8.14	Water samples recovered
	BH 1A (stp)	<0.1	<0.1	1.0	1.0	17.6	17.6	<0.1	1025	2.10	Dry	
	BH 1A (pz)	-	-	-	-	-	-	-	-	49.00	18.54	
	BH 2 (stp)	0.1	0.1	0.7	0.7	18.9	18.9	<0.1	1025	12.00	10.06	Water samples recovered
	BH 2 (stp)	0.2	0.2	0.7	0.7	18.9	18.9	<0.1	1025	3.40	Dry	
	BH 2 (pz)	-	-	-	-	-	-	-	-	38.00	10.31	
	WS 1	<0.1	<0.1	0.8	0.8	18.2	18.2	<0.1	1024	6.00	Dry	
	WS 2	<0.1	<0.1	0.2	0.2	14.8	14.8	<0.1	1026	3.00	Dry	
	WS 3	-	-	-	-	-	-	-	-	5.70	-	Parked car
	WS 4	<0.1	<0.1	0.4	0.4	19.6	19.6	<0.1	1025	5.70	Dry	
	WS 5	<0.1	<0.1	0.9	0.9	19.2	19.2	<0.1	1024	6.00	Dry	
	WS 6	<0.1	<0.1	<0.1	<0.1	18.2	18.2	<0.1	1024	3.75	Dry	
	WS 7	-	-	-	-	-	-	-	-	3.40	-	Covered by stockpiled materials
	WS 8	<0.1	<0.1	0.9	0.9	17.7	17.7	<0.1	1024	3.75	Dry	



# Groundwater/Gas Monitoring Post Fieldwork Record

**GROUND ENGINEERING LIMITED**

**Site:** Paddington Green Police Station, London W2

**Report Ref:** C15340

Date	Borehole	Methane (% v/v)		Carbon Dioxide (% v/v)		Oxygen (% v/v)		Flow Rate (l/hr)	Atmosph. Pressure (mb)	Depth of Well (m)	Depth to Groundwater (m)	Comments
		Peak	Steady	Peak	Steady	Min.	Max.					
30/07/21	BH 1A (stp)	<0.1	<0.1	2.2	2.2	15.0	15.0	<0.1	1000	10.00	8.12	Water samples recovered
	BH 1A (stp)	<0.1	<0.1	2.1	2.1	14.6	14.6	<0.1	1000	2.10	Dry	
	BH 1A (pz)	-	-	-	-	-	-	-	-	49.00	18.21	
	BH 2 (stp)	<0.1	<0.1	1.9	1.9	11.6	11.6	<0.1	998	12.00	10.10	Water samples recovered
	BH 2 (stp)	<0.1	<0.1	4.0	4.0	14.7	14.7	<0.1	998	3.40	Dry	
	BH 2 (pz)	-	-	-	-	-	-	-	-	38.00	10.25	
	WS 1	<0.1	<0.1	0.9	0.9	17.7	17.7	<0.1	1000	6.00	Dry	
	WS 2	<0.1	<0.1	2.1	2.1	15.5	15.5	<0.1	1000	3.00	Dry	
	WS 3	<0.1	<0.1	1.0	1.0	17.7	17.7	<0.1	1000	5.70	Dry	
	WS 4	<0.1	<0.1	1.1	1.1	17.7	17.7	<0.1	1000	5.70	Dry	
	WS 5	<0.1	<0.1	1.2	1.2	17.9	17.9	<0.1	999	6.00	Dry	
	WS 6	<0.1	<0.1	<0.1	<0.1	18.5	18.5	<0.1	999	3.75	Dry	
	WS 7	<0.1	<0.1	<0.1	<0.1	19.3	19.3	<0.1	999	3.40	Dry	
	WS 8	<0.1	<0.1	2.3	2.3	12.4	12.4	<0.1	998	3.75	Dry	

# Groundwater/Gas Monitoring Post Fieldwork Record

**GROUND ENGINEERING LIMITED**

**Site: Paddington Green Police Station, London W2**

**Report Ref: C15340**

Date	Borehole	Methane (% v/v)		Carbon Dioxide (% v/v)		Oxygen (% v/v)		Flow Rate (l/hr)	Atmosph. Pressure (mb)	Depth of Well (m)	Depth to Groundwater (m)	Comments
		Peak	Steady	Peak	Steady	Min.	Max.					
06/08/21	BH 1A (stp)	<0.1	<0.1	0.6	0.6	18.7	18.7	<0.1	996	10.00	7.80	
	BH 1A (stp)	<0.1	<0.1	2.2	2.2	16.6	16.6	<0.1	996	2.10	Dry	
	BH 1A (pz)	-	-	-	-	-	-	-	-	49.00	17.63	
	BH 2 (stp)	<0.1	<0.1	0.3	0.3	19.6	19.6	<0.1	996	12.00	10.08	
	BH 2 (stp)	<0.1	<0.1	1.3	1.3	18.5	18.5	<0.1	996	3.40	2.83	
	BH 2 (pz)	-	-	-	-	-	-	-	-	38.00	10.11	
	WS 1	<0.1	<0.1	0.1	0.1	20.3	20.3	<0.1	996	6.00	Dry	
	WS 2	<0.1	<0.1	<0.1	<0.1	20.3	20.3	<0.1	996	3.00	Dry	
	WS 3	<0.1	<0.1	1.0	1.0	18.2	18.2	<0.1	996	5.70	Dry	
	WS 4	<0.1	<0.1	0.1	0.1	20.3	20.3	<0.1	996	5.70	Dry	
	WS 5	<0.1	<0.1	1.2	1.2	18.1	18.1	<0.1	996	6.00	Dry	
	WS 6	<0.1	<0.1	<0.1	<0.1	18.2	18.2	<0.1	996	3.75	Dry	
	WS 7	-	-	-	-	-	-	-	-	3.40	-	Covered by stockpiled materials
	WS 8	<0.1	<0.1	0.8	0.8	19.1	19.1	<0.1	996	3.75	2.88	

# Groundwater/Gas Monitoring Post Fieldwork Record

**GROUND ENGINEERING LIMITED**

**Site: Paddington Green Police Station, London W2**

**Report Ref: C15340**

Date	Borehole	Methane (% v/v)		Carbon Dioxide (% v/v)		Oxygen (% v/v)		Flow Rate (l/hr)	Atmosph. Pressure (mb)	Depth of Well (m)	Depth to Groundwater (m)	Comments
		Peak	Steady	Peak	Steady	Min.	Max.					
13/08/21	BH 1A (stp)	<0.1	<0.1	<0.1	<0.1	20.5	20.5	<0.1	1020	10.00	8.12	
	BH 1A (stp)	<0.1	<0.1	0.3	0.3	20.1	20.1	<0.1	1020	2.10	Dry	
	BH 1A (pz)	-	-	-	-	-	-	-	-	49.00	17.17	
	BH 2 (stp)	<0.1	<0.1	4.5	4.5	8.6	8.6	<0.1	1019	12.00	10.08	
	BH 2 (stp)	<0.1	<0.1	3.9	3.9	13.5	13.5	<0.1	1019	3.40	Dry	
	BH 2 (pz)	-	-	-	-	-	-	-	-	38.00	10.13	
	WS 1	<0.1	<0.1	<0.1	<0.1	20.5	20.5	<0.1	1020	6.00	Dry	
	WS 2	0.1	0.1	<0.1	<0.1	20.6	20.6	<0.1	1020	3.00	Dry	
	WS 3	<0.1	<0.1	0.3	0.3	19.9	19.9	<0.1	1020	5.70	Dry	
	WS 4	<0.1	<0.1	<0.1	<0.1	20.5	20.5	<0.1	1020	5.70	Dry	
	WS 5	<0.1	<0.1	0.3	0.3	20.1	20.1	<0.1	1019	6.00	Dry	
	WS 6	0.1	0.1	<0.1	<0.1	18.2	18.2	<0.1	1019	3.75	Dry	
	WS 7	-	-	-	-	-	-	-	-	3.40	-	Covered by stockpiled materials
	WS 8	<0.1	<0.1	2.9	2.9	13.8	13.8	<0.1	1019	3.75	2.88	

# Groundwater/Gas Monitoring Post Fieldwork Record

**GROUND ENGINEERING LIMITED**

**Site: Paddington Green Police Station, London W2**

**Report Ref: C15340**

Date	Borehole	Methane (% v/v)		Carbon Dioxide (% v/v)		Oxygen (% v/v)		Flow Rate (l/hr)	Atmosph. Pressure (mb)	Depth of Well (m)	Depth to Groundwater (m)	Comments
		Peak	Steady	Peak	Steady	Min.	Max.					
20/08/21	BH 1A (stp)	<0.1	<0.1	0.6	0.6	19.5	19.5	<0.1	1014	10.00	8.15	
	BH 1A (stp)	<0.1	<0.1					<0.1	1014	2.10	Dry	
	BH 1A (pz)	-	-	-	-	-	-	-	-	49.00	16.67	
	BH 2 (stp)	<0.1	<0.1	4.2	4.2	10.70	10.70	<0.1	1014	12.00	10.06	
	BH 2 (stp)	<0.1	<0.1	3.1	3.1	16.0	16.0	<0.1	1014	3.40	2.62	
	BH 2 (pz)	-	-	-	-	-	-	-	-	38.00	10.12	
	WS 1	<0.1	<0.1	<0.1	<0.1	21.2	21.2	<0.1	1014	6.00	Dry	
	WS 2	<0.1	<0.1	<0.1	<0.1	21.1	21.1	<0.1	1014	3.00	Dry	
	WS 3	<0.1	<0.1	0.5	0.4	20.3	20.5	<0.1	1014	5.70	Dry	
	WS 4	<0.1	<0.1	<0.1	<0.1	21.0	21.0	<0.1	1014	5.70	Dry	
	WS 5	<0.1	<0.1	0.3	0.3	20.7	20.7	<0.1	1014	6.00	Dry	
	WS 6	<0.1	<0.1	<0.1	<0.1	19.2	19.2	<0.1	1014	3.75	Dry	
	WS 7	<0.1	<0.1	<0.1	<0.1	21.2	21.2	<0.1	1014	3.40	2.78	
	WS 8	<0.1	<0.1	1.4	1.4	19.2	19.2	<0.1	1014	3.75	Dry	

# Groundwater/Gas Monitoring Post Fieldwork Record

**GROUND ENGINEERING LIMITED**

**Site:** Paddington Green Police Station, London W2

**Report Ref:** C15340

Date	Borehole	Methane (% v/v)		Carbon Dioxide (% v/v)		Oxygen (% v/v)		Flow Rate (l/hr)	Atmosph. Pressure (mb)	Depth of Well (m)	Depth to Groundwater (m)	Comments
		Peak	Steady	Peak	Steady	Min.	Max.					
26/08/21	BH 1A (stp)	<0.1	<0.1	0.9	0.9	18.9	18.9	<0.1	1021	10.00	8.13	
	BH 1A (stp)	<0.1	<0.1	3.2	3.2	14.2	14.2	<0.1	1020	2.10	Dry	
	BH 1A (pz)	-	-	-	-	-	-	-	-	49.00	16.31	
	BH 2 (stp)	<0.1	<0.1	<0.1	<0.1	21.1	21.1	<0.1	1020	12.00	10.10	
	BH 2 (stp)	<0.1	<0.1	0.8	0.8	20.0	20.0	<0.1	1020	3.40	Dry	
	BH 2 (pz)	-	-	-	-	-	-	-	-	38.00	10.15	
	WS 1	<0.1	<0.1	1.5	1.5	17.8	17.8	<0.1	1020	6.00	Dry	
	WS 2	<0.1	<0.1	0.6	0.6	19.7	19.7	<0.1	1020	3.00	Dry	
	WS 3	-	-	-	-	-	-	-	-	5.70	-	Covered by parked car
	WS 4	<0.1	<0.1	0.7	0.7	19.7	19.7	<0.1	1020	5.70	Dry	
	WS 5	<0.1	<0.1	0.3	0.3	20.3	20.3	<0.1	1020	6.00	Dry	
	WS 6	<0.1	<0.1	0.2	0.2	19.6	19.6	<0.1	1020	3.75	Dry	
	WS 7	-	-	-	-	-	-	-	-	3.40	-	Covered by stockpiled materials
	WS 8	<0.1	<0.1	1.3	1.3	19.4	19.4	<0.1	1020	3.75	Dry	



## **APPENDIX 6 – GEOTECHNICAL LABORATORY TEST RESULTS**

LABORATORY TEST RESULTS

CONTRACT    PADDINGTON GREEN POLICE STATION, LONDON W2

Bore-hole	Sample	Depth m	Classification				Density		Triaxial Compression					Sulphates (SO <sub>4</sub> )				Remarks
			Liquid Limit %	Plastic Limit %	Plasticity Index %	Moisture Content %	Bulk Mg/m <sup>3</sup>	Dry Mg/m <sup>3</sup>	Type	Principal Stress Difference kPa	Cell Pressure kPa	Shear Strength kPa	Angle of Shear Resistance degrees	Soil		pH		
														Total % Dry Wt.	Aqueous Extract mg/l		Water mg/l	
BH1	B2	0.60 – 0.80	37	25	12	18												SOIL CLASSIFICATION = CI/MI 72% retained on 425µm sieve
	B3	0.80 – 1.20	33	20	13	14												SOIL CLASSIFICATION = CL 65% retained on 425µm sieve
BH1A	B2	4.50 – 5.00	41	18	23	21												SOIL CLASSIFICATION = CI 1% retained on 425µm sieve
	U1	4.80 – 5.20				20	2.13	1.78	Q	164	96	82	0					SOIL CLASSIFICATION = CI 14% retained on 425µm sieve
D1	D1	5.20	49	18	31	20												SOIL CLASSIFICATION = CV 12% retained on 425µm sieve
	D4	14.35	75	27	48	20												SOIL CLASSIFICATION = CV 12% retained on 425µm sieve
U2	U2	15.50 – 15.95				27	2.00	1.58	Q	249	471	125	0					SOIL CLASSIFICATION = CV 3% retained on 425µm sieve
	D5	15.95				23												
D6	D6	17.45	74	26	48	28												

U – UNDISTURBED SAMPLE  
D – DISTURBED SAMPLE  
B – BULK SAMPLE  
W – WATER SAMPLE

C.U. – CONSOLIDATED UNDRAINED  
C.D. – CONSOLIDATED DRAINED  
Q. – IMMEDIATE UNDRAINED  
Q.M. – IMMEDIATE UNDRAINED MULTISTAGE

Aqueous Extract 2:1 Water:Soil

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## LABORATORY TEST RESULTS

CONTRACT PADDINGTON GREEN POLICE STATION, LONDON W2

Bore-hole	Sample	Depth m	Classification				Density		Triaxial Compression					Sulphates (SO <sub>4</sub> )				Remarks
			Liquid Limit %	Plastic Limit %	Plasticity Index %	Moisture Content %	Bulk Mg/m <sup>3</sup>	Dry Mg/m <sup>3</sup>	Type	Principal Stress Difference kPa	Cell Pressure kPa	Shear Strength kPa	Angle of Shear Resistance degrees	Total % Dry Wt.	Aqueous Extract mg/l	Water mg/l	pH	
BH1A	U3	18.50 – 18.95				27	2.04	1.61	Q	302	561	151	0					SOIL CLASSIFICATION = CV 0% retained on 425µm sieve
	D7	18.95				23												
	D8	19.50				24												
	D9	20.45	81	29	52	23												
	U4	21.50 – 21.95				26	2.01	1.60	Q	397	651	199	0					
	D10	21.95				24												
	D11	22.50				21												
	D12	23.45				23												
	U5	24.50 – 24.95				23	2.00	1.62	Q	563	741	282	0					
	D13	24.95	71	29	42	20												
	D15	26.45				23												
	U6	27.50 – 27.90				26	2.06	1.63	Q	331	831	166	0					
																		SOIL CLASSIFICATION = CV 0% retained on 425µm sieve

U - UNDISTURBED SAMPLE	C.U. - CONSOLIDATED UNDRAINED	Aqueous Extract 2:1 Water:Soil

U	UNDISTURBED SAMPLE	C. U.	CONSOLIDATED UNDRAINED
D	DISTURBED SAMPLE	C. D.	CONSOLIDATED DRAINED
B	BULK SAMPLE	Q.	IMMEDIATE UNDRAINED
W	WATER SAMPLE	Q. M.	IMMEDIATE UNDRAINED MU

15340

**GROUND ENGINEERING**  
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LABORATORY TEST RESULTS

CONTRACT PADDINGTON GREEN POLICE STATION, LONDON W2

Bore-hole	Sample	Depth m	Classification				Density		Triaxial Compression					Sulphates (SO <sub>4</sub> )				Remarks
			Liquid Limit %	Plastic Limit %	Plasticity Index %	Moisture Content %	Bulk Mg/m <sup>3</sup>	Dry Mg/m <sup>3</sup>	Type	Principal Stress Difference kPa	Cell Pressure kPa	Shear Strength kPa	Angle of Shear Resistance degrees	Total Dry Wt. %	Soil Aqueous Extract mg/l	Water mg/l	pH	
BH1A	D16	27.90				23												SOIL CLASSIFICATION = CV 0% retained on 425µm sieve
	D17	28.50				23												
	D18	29.45	72	28	44	22												
	U7	30.50 – 30.80				24	1.99	1.61	Q	759	919	380	0					
	D19	30.80				8.3												
	D20	32.45				24												
	U18	33.50 – 33.90				28	2.06	1.61	Q	415	1011	207	0					
	D21	33.90				23												
	D22	34.50	83	32	51	25												
	D23	35.45				24												
	U9	36.50 – 36.95				24	2.08	1.68	Q	863	1101	431	0					
	U19	36.50 – 36.95																

U – UNDISTURBED SAMPLE      C.U. – CONSOLIDATED UNDRAINED      Aqueous Extract 2:1 Water:Soil

D – DISTURBED SAMPLE      C.D. – CONSOLIDATED DRAINED

B – BULK SAMPLE      Q. – IMMEDIATE UNDRAINED

W – WATER SAMPLE      Q.M. – IMMEDIATE UNDRAINED MULTISTAGE

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## LABORATORY TEST RESULTS

CONTRACT  
PADDINGTON GREEN POLICE STATION, LONDON W2

Bore-hole	Sample	Depth m	Classification				Density		Triaxial Compression					Sulphates (SO <sub>4</sub> )				Remarks
			Liquid Limit %	Plastic Limit %	Plasticity Index %	Moisture Content %	Bulk Mg/m <sup>3</sup>	Dry Mg/m <sup>3</sup>	Type	Principal Stress Difference kPa	Cell Pressure kPa	Shear Strength kPa	Angle of Shear Resistance degrees	Total % Dry Wt.	Aqueous Extract mg/l	Water mg/l	pH	
BH1A	D24	36.95				21												SOIL CLASSIFICATION = CH 0% retained on 425µm sieve
	D25	37.50				21												
	D26	38.45	66	24	42	20												
	U10	39.50 – 39.95				26	2.05	1.62	Q	459	1191	230	0					
	D27	39.95				22												
	D28	40.50				20												
	D29	41.90				23												
	U11	42.50 – 42.95				23	2.09	1.70	Q	871	1281	435	0					
	D30	42.95				21												
	D31	43.50	73	25	48	22												
	U12	45.50 – 45.90				25	2.05	1.64	Q	458	1371	229	0					
	D33	45.90				21												

U - UNDISTURBED SAMPLE  
C.U. - CONSOLIDATED UNDRAINED  
Aqueous Extract 2:1 Water:Soil

U	UNDISTURBED SAMPLE	C. U.	—	CONSOLIDATED	UNDRAINED
D	DISTURBED SAMPLE	C. D.	—	CONSOLIDATED	DRAINED
B	BULK SAMPLE	Q.	—	IMMEDIATE	UNDRAINED
W	WATER SAMPLE	Q. M.	—	IMMEDIATE	UNDRAINED MU

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**GROUND ENGINEERING**

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LABORATORY TEST RESULTS

CONTRACT    PADDINGTON GREEN POLICE STATION, LONDON W2

Bore-hole	Sample	Depth m	Classification				Density		Triaxial Compression					Sulphates (SO <sub>4</sub> )				Remarks
			Liquid Limit %	Plastic Limit %	Plasticity Index %	Moisture Content %	Bulk Mg/m <sup>3</sup>	Dry Mg/m <sup>3</sup>	Type	Principal Stress Difference kPa	Cell Pressure kPa	Shear Strength kPa	Angle of Shear Resistance degrees	Total % Dry Wt.	Soil Aqueous Extract mg/l	Water mg/l	pH	
BH1A	D34	47.40				23												SOIL CLASSIFICATION = CH 0% retained on 425µm sieve
	U13	48.70 – 49.10				22	2.10	1.72	Q	1278	1467	639	0					
	D35	49.10	56	20	36	16												
	B3	1.20 – 1.60	33	18	15	21												
BH2	B7	3.50 – 4.00	33	15	18	16												SOIL CLASSIFICATION = CL 39% retained on 425µm sieve
	B10	5.60 – 6.00	47	17	30	21												SOIL CLASSIFICATION = CL 18% retained on 425µm sieve
	U1	6.00 – 6.45				25	2.07	1.66	Q	128	124	64	0					SOIL CLASSIFICATION = CI 1% retained on 425µm sieve
	B11	7.00 – 7.50	47	19	28	28												SOIL CLASSIFICATION = CI 1% retained on 425µm sieve
	U2	7.50 – 7.95				26	2.00	1.58	Q	106	154	53	0					

U – UNDISTURBED SAMPLE  
D – DISTURBED SAMPLE  
B – BULK SAMPLE  
W – WATER SAMPLE

C.U. – CONSOLIDATED UNDRAINED  
C.D. – CONSOLIDATED DRAINED  
Q. – IMMEDIATE UNDRAINED  
Q.M. – IMMEDIATE UNDRAINED MULTISTAGE

Aqueous Extract 2:1 Water:Soil

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## LABORATORY TEST RESULTS

CONTRACT

Bore-hole	Sample	Depth m	Classification				Density		Triaxial Compression					Sulphates (SO <sub>4</sub> )				Remarks
			Liquid Limit %	Plastic Limit %	Plasticity Index %	Moisture Content %	Bulk Mg/m <sup>3</sup>	Dry Mg/m <sup>3</sup>	Type	Principal Stress Difference kPa	Cell Pressure kPa	Shear Strength kPa	Angle of Shear Resistance degrees	Soil Total % Dry Wt.	Aqueous Extract mg/l	Water mg/l	pH	
BH2	B16	11.50 – 12.00	72	26	46	24												SOIL CLASSIFICATION = CV 4% retained on 425µm sieve
	U3	12.50 – 12.90				25	2.06	1.64	Q	676	381	338	0					
	B18	14.00 – 14.50	66	23	43	25											SOIL CLASSIFICATION = CH 0% retained on 425µm sieve	
	U4	15.50 – 15.95				27	2.03	1.60	Q	247	471	134	0					
	U5	17.50 – 17.90				28	2.04	1.60	Q	248	531	124	0					
	B20	19.00 – 19.50				27												
	U6	20.50 – 20.95				27	1.98	1.56	Q	609	621	305	0					
	B21	22.00 – 22.50				21												
U7	23.50 – 23.90				24	2.11	1.70	Q	681	711	341	0						

U - UNDISTURBED SAMPLE  
D - DISTURBED SAMPLE  
B - BULK SAMPLE  
W - WATER SAMPLE

C.U. - CONSOLIDATED UNDRAINED  
C.D. - CONSOLIDATED DRAINED  
Q. - IMMEDIATE UNDRAINED  
Q.M. - IMMEDIATE UNDRAINED MU

Aqueous Extract 2:1 Water: Soil

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LABORATORY TEST RESULTS

CONTRACT    PADDINGTON GREEN POLICE STATION, LONDON W2

Bore-hole	Sample	Depth m	Classification				Density		Triaxial Compression					Sulphates (SO <sub>4</sub> )				Remarks
			Liquid Limit %	Plastic Limit %	Plasticity Index %	Moisture Content %	Bulk Mg/m <sup>3</sup>	Dry Mg/m <sup>3</sup>	Type	Principal Stress Difference kPa	Cell Pressure kPa	Shear Strength kPa	Angle of Shear Resistance degrees	Total Dry Wt. %	Soil Aqueous Extract mg/l	Water mg/l	pH	
BH2	B22	25.00 – 25.50	79	29	50	26												SOIL CLASSIFICATION = CV 0% retained on 425µm sieve
	U8	26.50 – 26.90				23	2.06	1.68	Q	1017	801	509	0					
	B23	28.00 – 28.50				27												
	U9	29.50 – 29.95				27	1.99	1.57	Q	561	891	280	0					
	B24	31.00 – 31.50				26												
	U10	32.50 – 32.90				27	1.97	1.55	Q	565	981	283	0					
	B25	34.00 – 34.50	82	31	51	27												SOIL CLASSIFICATION = CV 0% retained on 425µm sieve
	U11	35.50 – 35.80				25	2.14	1.72	Q	797	1071	399	0					
	B26	37.30 – 37.80				23												
	U12	38.50 – 38.80				21	2.01	1.66	Q	584	1161	292	0					

U – UNDISTURBED SAMPLE  
D – DISTURBED SAMPLE  
B – BULK SAMPLE  
W – WATER SAMPLE

C.U. – CONSOLIDATED UNDRAINED  
C.D. – CONSOLIDATED DRAINED  
Q. – IMMEDIATE UNDRAINED  
Q.M. – IMMEDIATE UNDRAINED MULTISTAGE

Aqueous Extract 2:1 Water:Soil

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LABORATORY TEST RESULTS

CONTRACT    PADDINGTON GREEN POLICE STATION, LONDON W2

Bore-hole	Sample	Depth m	Classification				Density		Triaxial Compression					Sulphates (SO <sub>4</sub> )				Remarks
			Liquid Limit %	Plastic Limit %	Plasticity Index %	Moisture Content %	Bulk Mg/m <sup>3</sup>	Dry Mg/m <sup>3</sup>	Type	Principal Stress Difference kPa	Cell Pressure kPa	Shear Strength kPa	Angle of Shear Resistance degrees	Total % Dry Wt.	Soil Aqueous Extract mg/l	Water mg/l	pH	
BH2	B27	40.00 – 40.50				24												SOIL CLASSIFICATION = CV 0% retained on 425µm sieve
	U13	41.50 – 41.80				22	2.05	1.68	Q	471	1251	235	0					
	B28	43.00 – 43.50	77	30	47	24												
	U14	44.50 – 44.80				25	1.93	1.55	Q	799	1341	399	0					
	B29	46.00 – 46.50				24												
	B31	49.50 – 50.00	79	29	50	24											SOIL CLASSIFICATION = CV 0% retained on 425µm sieve	
	U15	49.50 – 49.70				24	1.88	1.51	Q	359	1491	179	0					

U – UNDISTURBED SAMPLE  
D – DISTURBED SAMPLE  
B – BULK SAMPLE  
W – WATER SAMPLE

C.U. – CONSOLIDATED UNDRAINED  
C.D. – CONSOLIDATED DRAINED  
Q. – IMMEDIATE UNDRAINED  
Q.M. – IMMEDIATE UNDRAINED MULTISTAGE

Aqueous Extract 2:1 Water:Soil

15340



8180

**GROUND ENGINEERING**

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**TEST CERTIFICATE****Determination of Particle Size Distribution**

Tested in Accordance with BS 1377-2: 1990; Clause 9.2 & 9.4  
Wet Sieving Method and Sedimentation by Pipette

Client: Ground Engineering Ltd  
Client Address: Newark Road  
Peterborough  
PE1 5UA

Certificate Number: PL7473-1/1/710-2

Client Reference: C15340

Lab Job Number: PL7473-1

Date Sampled: Unknown

Date Received: 18.05.2021

Date Tested: 27.05.2021

Contact: Steve Fleming

Certificate of Sampling: N/A

Sampling Certificate No.: N/A

Sampled By: Client

Site Name: Paddington Green Police Station

Site Address: London W2

**TEST RESULTS**

Laboratory Reference: PL7473-1/1

Client Reference: B2

Pre-treatment for  
organic material:

No

**Sample Description:**

Brown slightly clayey slightly silty SAND and GRAVEL with sandy clay lumps. Gravel consists of angular to sub-rounded brick and flint.

Material Specification: Not Required

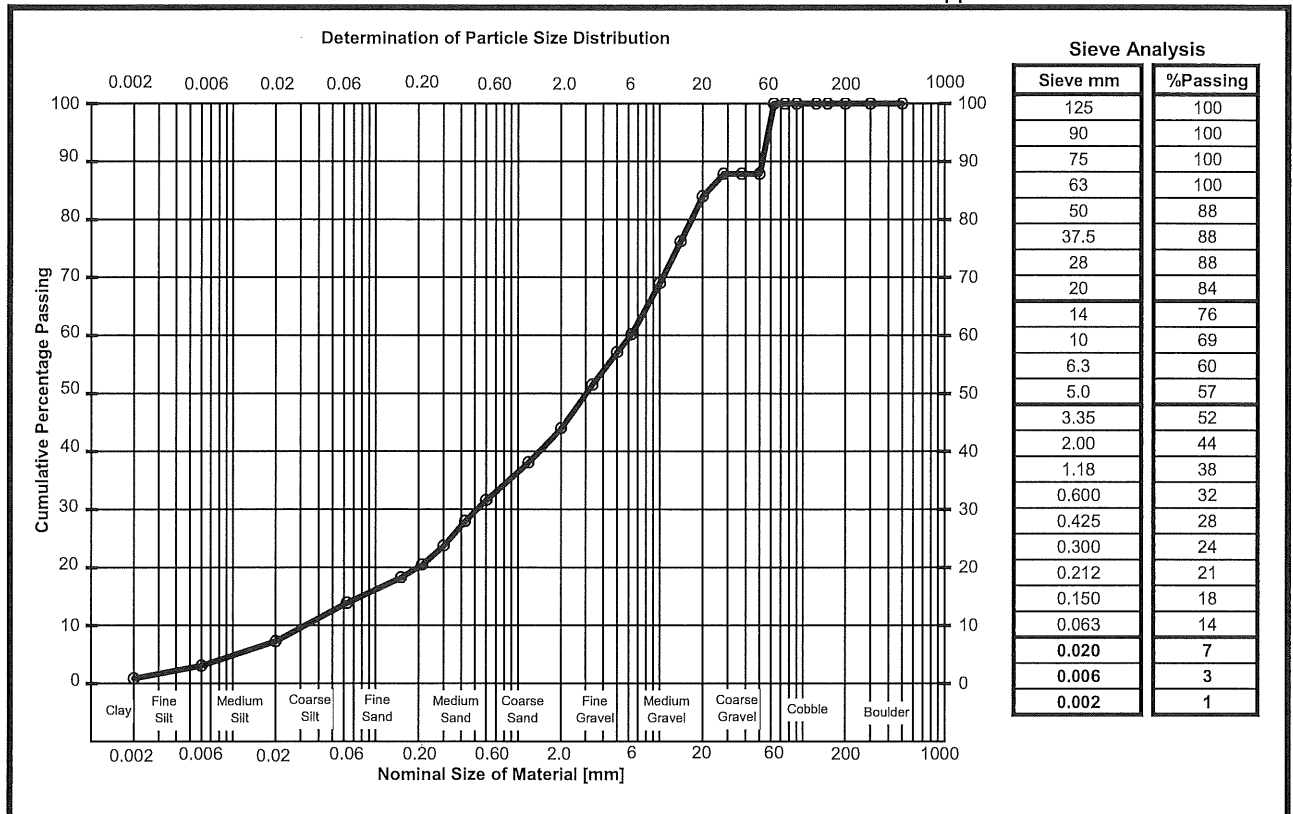
Location: BH1

Source:

Depth Top: 0.60m

Depth Base: 0.80m

Supplier:



Comments: Data relevant to material below 63 microns is outside the current scope of UKAS accreditation

Approved Signatory: M. Hartnup - Laboratory Manager

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 23.06.2021 Page 1 of 1

Form Number: GELab/C/709-2 Version 56

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Registered in England & Wales  
Registration Number: 6929574  
Reg Office: Ground Engineering Ltd  
Newark Rd, Peterborough PE1 5UA



8180

**TEST CERTIFICATE****GROUND ENGINEERING**

Newark Road Peterborough  
t: 01733 566566  
e: admin@groundengineering.co.uk

**Determination of Particle Size Distribution**

Tested in Accordance with BS 1377-2: 1990: Clause 9.2 & 9.4  
Wet Sieving Method and Sedimentation by Pipette

Client: Ground Engineering Ltd  
Client Address: Newark Road  
Peterborough  
PE1 5UA  
  
Contact: Steve Fleming  
  
Site Name: Paddington Green Police Station  
Site Address: London W2

Certificate Number: PL7473-1/2/710-2  
Client Reference: C15340  
Lab Job Number: PL7473-1  
Date Sampled: Unknown  
Date Received: 18.05.2021  
Date Tested: 27.05.2021  
Certificate of Sampling: N/A  
Sampling Certificate No.: N/A  
Sampled By: Client

**TEST RESULTS**

Laboratory Reference: PL7473-1/2  
Client Reference: B3

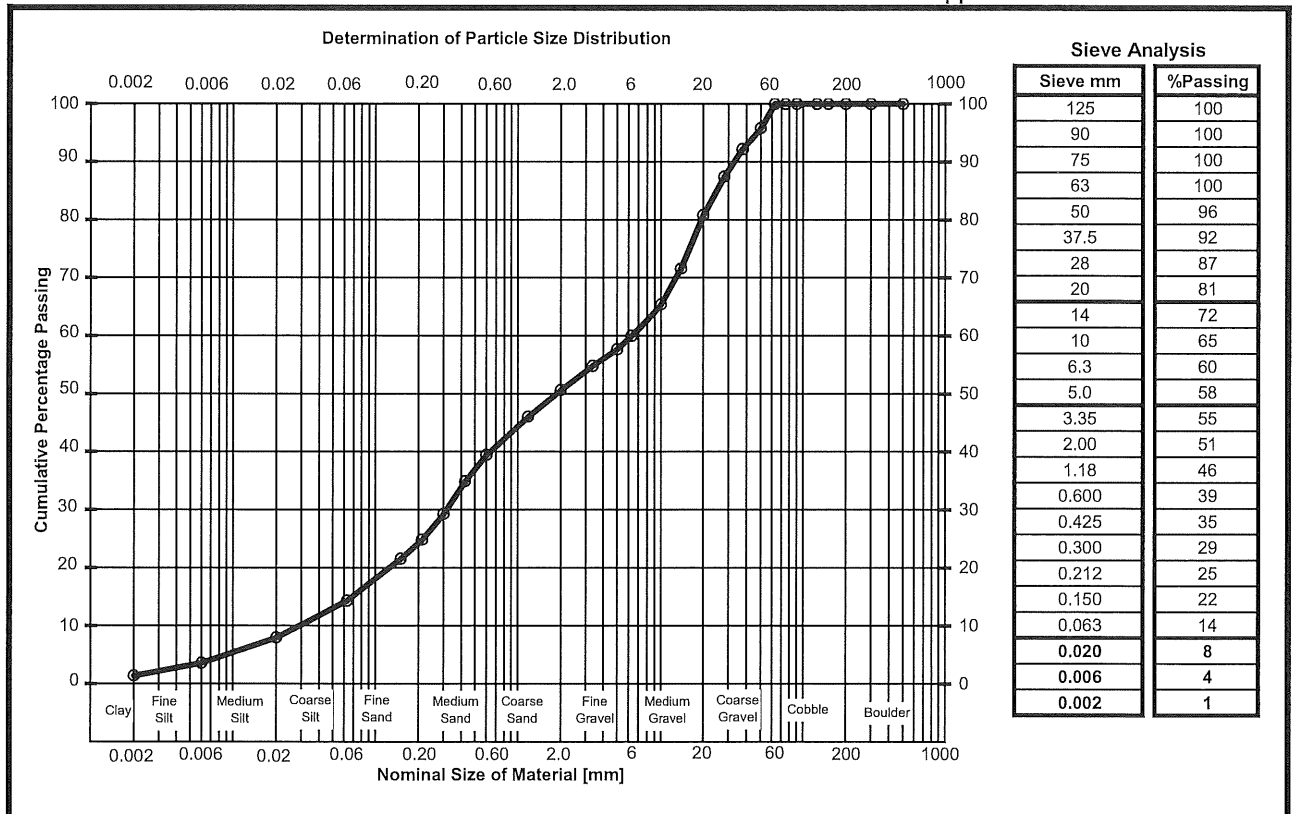
Pre-treatment for  
organic material: No

**Sample Description:**

Brown slightly clayey slightly silty SAND and GRAVEL. Gravel consists of angular to sub-rounded brick and flint.

Material Specification: Not Required  
Location: BH1  
Source:

Depth Top: 0.80m  
Depth Base: 1.20m  
Supplier:



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Approved Signatory: M. Hartnup - Laboratory Manager

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 23.06.2021 Page 1 of 1  
Form Number: GELab/C/709-2 Version 56

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**Determination of Particle Size Distribution**

Tested in Accordance with BS 1377-2: 1990: Clause 9.2 & 9.4  
Wet Sieving Method and Sedimentation by Pipette

Client: Ground Engineering Ltd  
Client Address: Newark Road  
Peterborough  
PE1 5UA

Certificate Number: PL7533-1/1/710-2  
Client Reference: C15340  
Lab Job Number: PL7533-1  
Date Sampled: Unknown  
Date Received: 13.07.2021  
Date Tested: 06.08.2021

Contact: Steve Fleming

Certificate of Sampling: N/A  
Sampling Certificate No.: N/A

Site Name: Paddington Green Police Station  
Site Address: London W2

Sampled By: Client

**TEST RESULTS**

Laboratory Reference: PL7533-1/1

Pre-treatment for

N/A

Client Reference: B2

organic material:

**Sample Description:**

Firm brown orange-brown grey slightly gravelly sandy SILT/CLAY with some silty/sandy pockets/partings.  
Gravel consists of fine sub-rounded flint.

Material Specification: Not Required

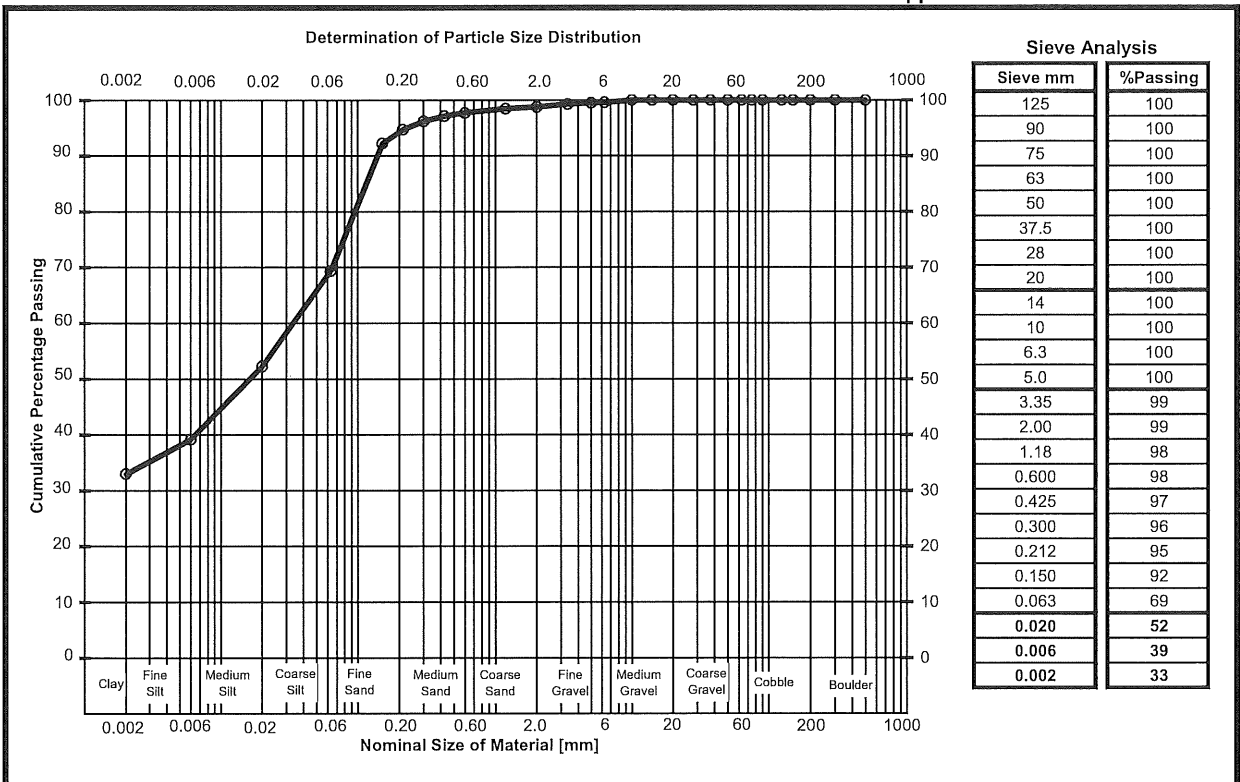
Depth Top: 4.50m

Location: BH1A

Depth Base: 5.00m

Source:

Supplier:



Comments: Data relevant to material below 63 microns is outside the current scope of UKAS accreditation

Approved Signatory: M. Hartnup - Laboratory Manager

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 10.08.2021 Page 1 of 1  
Form Number: GELab/C/709-2 Version 56

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**TEST CERTIFICATE****Determination of Particle Size Distribution**

Tested in Accordance with BS 1377-2: 1990: Clause 9.2 & 9.4  
Wet Sieving Method and Sedimentation by Pipette

Client: Ground Engineering Ltd  
Client Address: Newark Road  
Peterborough  
PE1 5UA

Certificate Number: PL7533-1/4/710-2  
Client Reference: C15340  
Lab Job Number: PL7533-1  
Date Sampled: Unknown  
Date Received: 13.07.2021  
Date Tested: 06.08.2021

Contact: Steve Fleming

Certificate of Sampling: N/A  
Sampling Certificate No.: N/A

Site Name: Paddington Green Police Station  
Site Address: London W2

Sampled By: Client

**TEST RESULTS**

Laboratory Reference: PL7533-1/4

Pre-treatment for

N/A

Client Reference: B3

organic material:

**Sample Description:**

Orange-brown slightly silty slightly gravelly clayey SAND with abundant soft clay lumps. Gravel consists of fine to medium sub-rounded flint.

Material Specification: Not Required

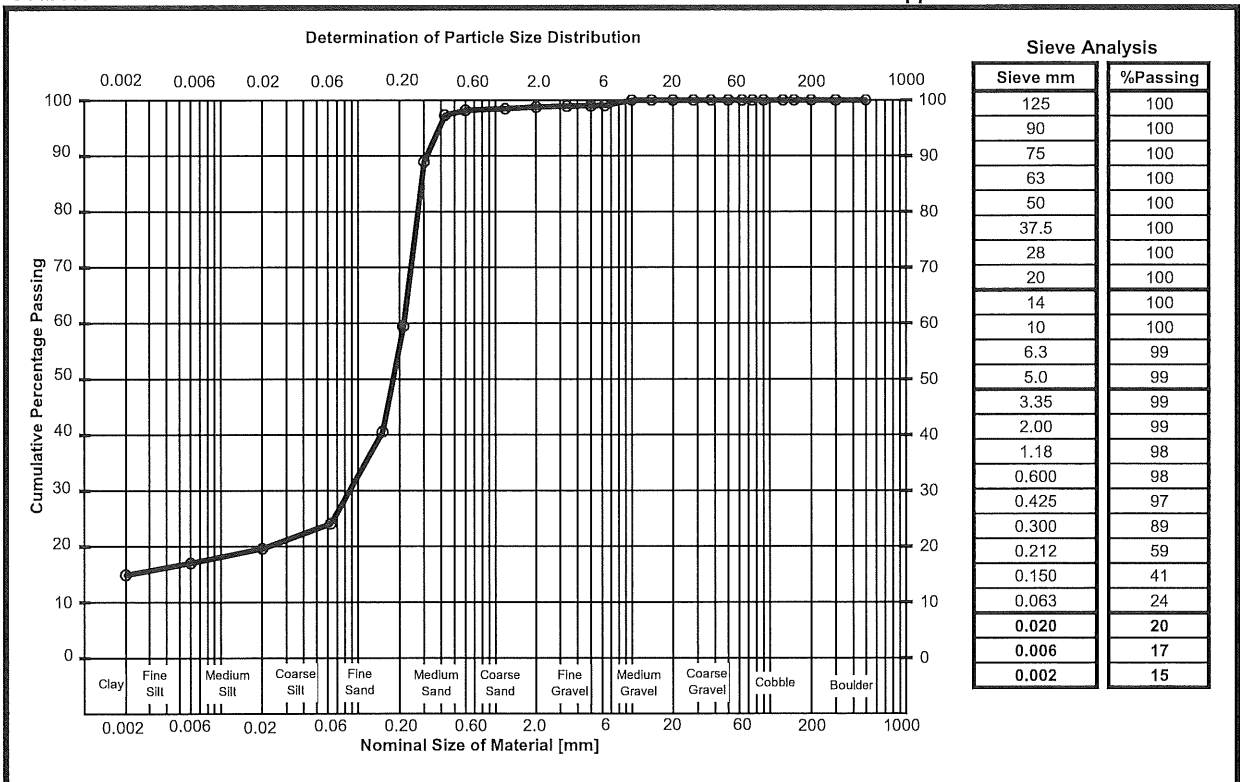
Depth Top: 5.50m

Location: BH1A

Depth Base: 6.00m

Source:

Supplier:



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Approved Signatory: M. Hartnup - Laboratory Manager

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 10.08.2021 Page 1 of 1  
Form Number: GELab/C/709-2 Version 56

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**Determination of Particle Size Distribution**

Tested in Accordance with BS 1377-2: 1990: Clause 9.2 & 9.4  
Wet Sieving Method and Sedimentation by Pipette

Client: Ground Engineering Ltd  
Client Address: Newark Road  
Peterborough  
PE1 5UA

Certificate Number: PL7533-1/5/710-2  
Client Reference: C15340  
Lab Job Number: PL7533-1  
Date Sampled: Unknown  
Date Received: 13.07.2021  
Date Tested: 06.08.2021

Contact: Steve Fleming

Site Name: Paddington Green Police Station  
Site Address: London W2

Certificate of Sampling: N/A  
Sampling Certificate No.: N/A  
Sampled By: Client

**TEST RESULTS**

Laboratory Reference: PL7533-1/5

Pre-treatment for  
organic material:

N/A

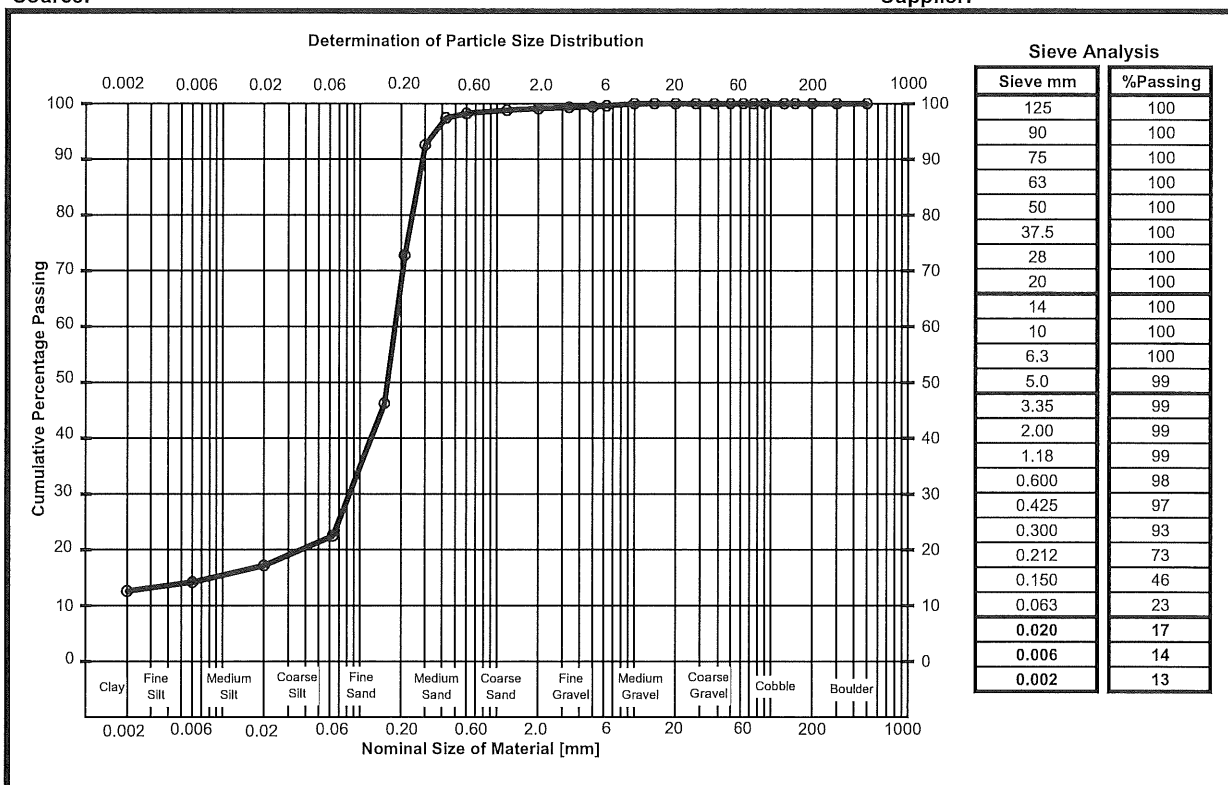
Client Reference: B4

**Sample Description:**

Orange-brown slightly silty slightly gravelly clayey SAND with abundant soft clay lumps. Gravel consists of fine to medium sub-rounded flint.

Material Specification: Not Required  
Location: BH1A  
Source:

Depth Top: 6.00m  
Depth Base: 6.50m  
Supplier:



Comments: Data relevant to material below 63 microns is outside the current scope of UKAS accreditation

Approved Signatory: M. Hartnup - Laboratory Manager

Signed:

for and on behalf of Ground Engineering Ltd

Date Reported: 10.08.2021 Page 1 of 1  
Form Number: GELab/C/709-2 Version 56

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