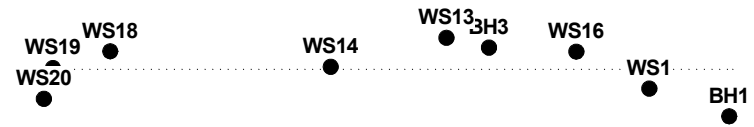
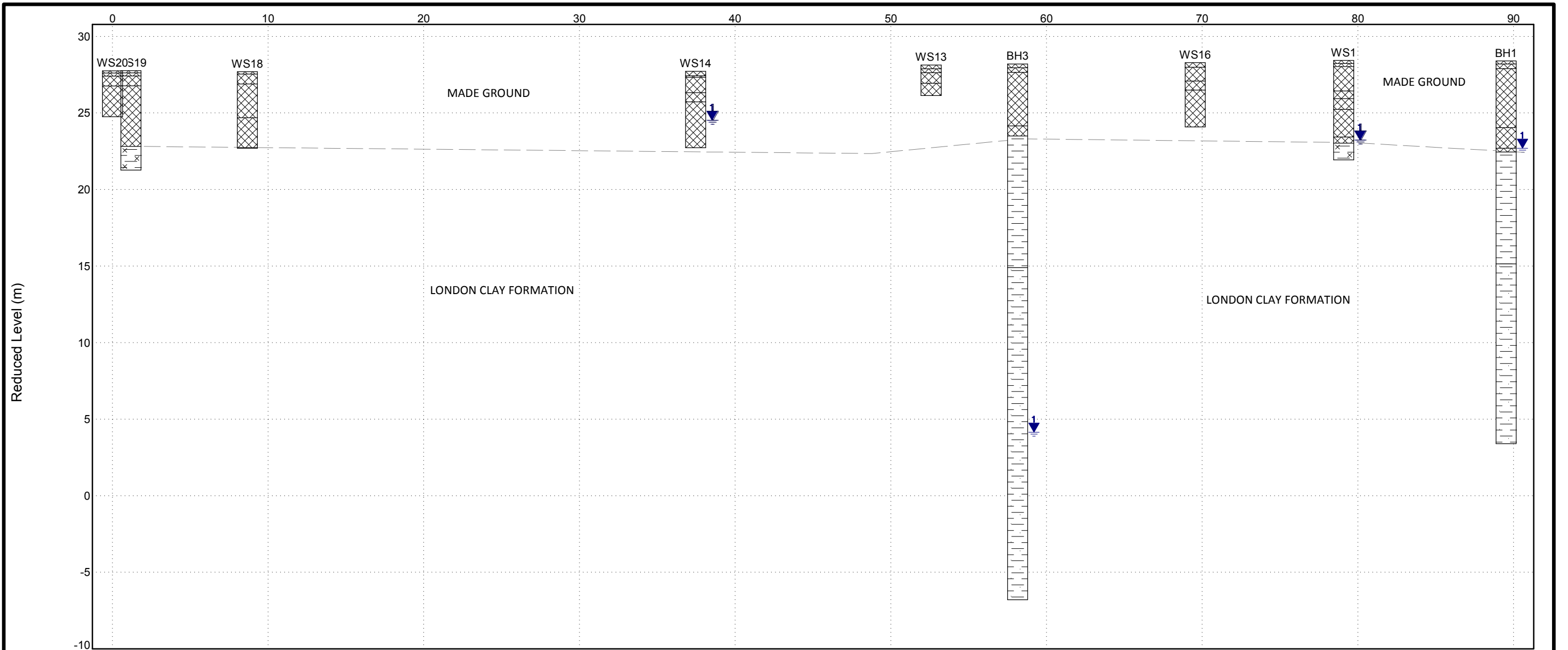


APPENDIX C

Geological cross sections

AGS3 LITHOLOGY SITE MAP - A3 CG5521C.GPJ GINT STD AGS 3 1.GDT 23/5/12



LITHOLOGY GRAPHICS



MADE GROUND



CLAY



Sandy CLAY



Silty CLAY

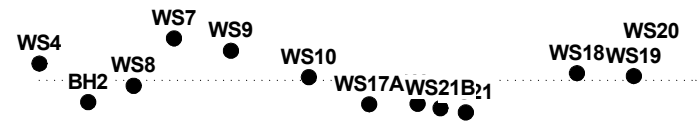
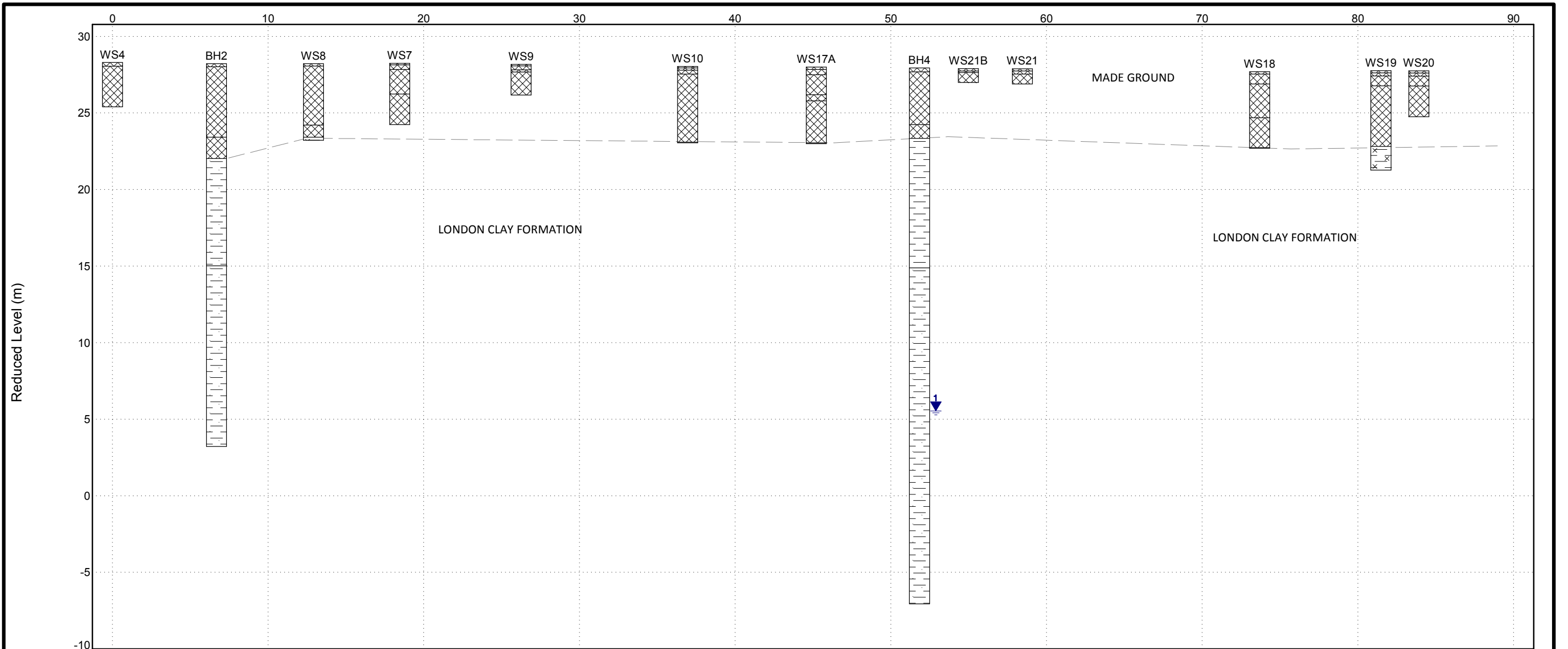
SUBSURFACE SECTION Cross Section 1

Client: Urbanest UK Limited

Project: 103 Camley Street, London

Number: CG/5521C

AGS3 LITHOLOGY SITE MAP - A3 CG5521C.GPJ GINT STD AGS 3 1.GDT 23/5/12



LITHOLOGY GRAPHICS



MADE GROUND



Sandy CLAY



CLAY



Silty CLAY

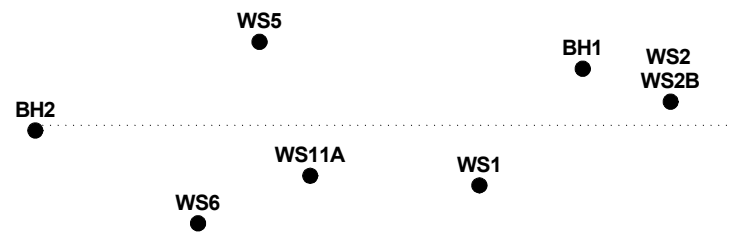
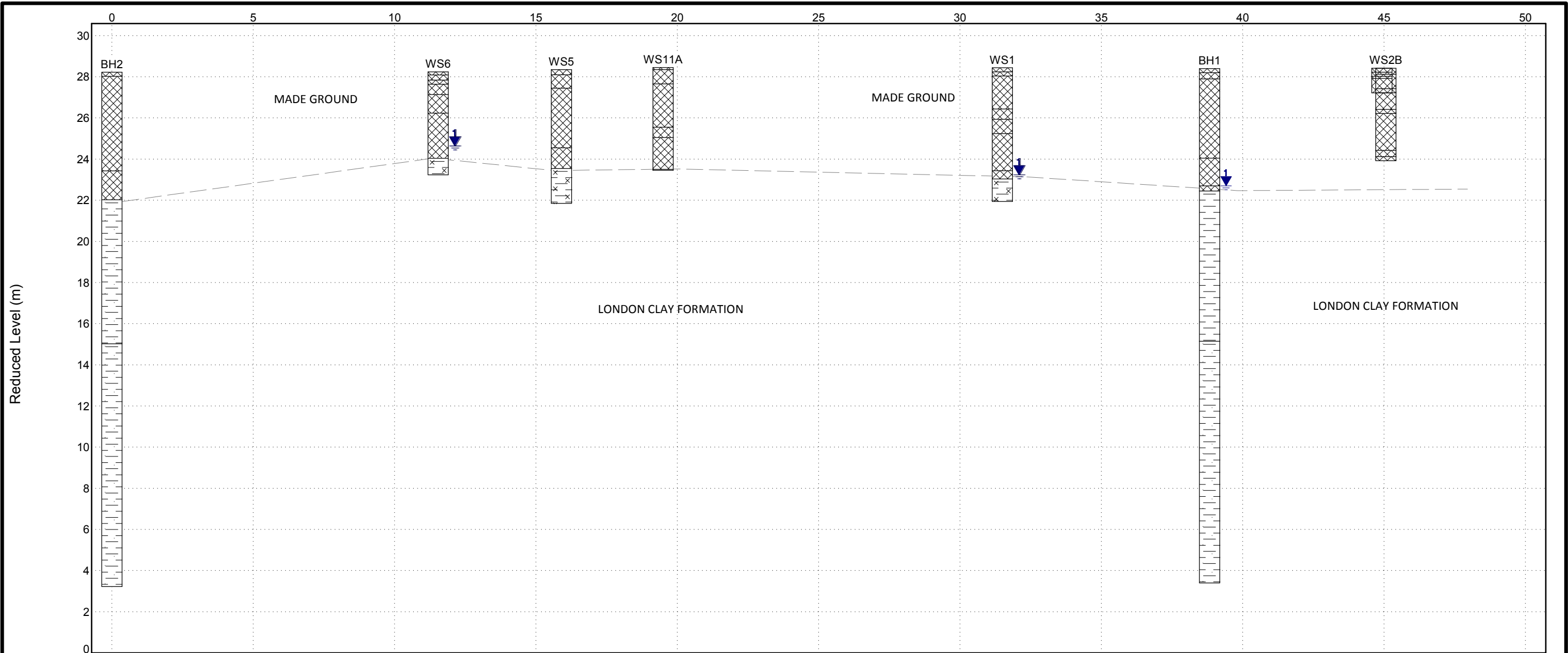
SUBSURFACE SECTION Cross Section 2

Client: Urbanest UK Limited

Project: 103 Camley Street, London

Number: CG/5521C

AGS3 LITHOLOGY SITE MAP - A3 CG5521C.GPJ GINT STD AGS 3 1.GDT 23/5/12



LITHOLOGY GRAPHICS



MADE GROUND



CLAY



Sandy CLAY



Silty CLAY

SUBSURFACE SECTION Cross Section 3

Client: Urbanest UK Limited

Project: 103 Camley Street, London

Number: CG/5521C

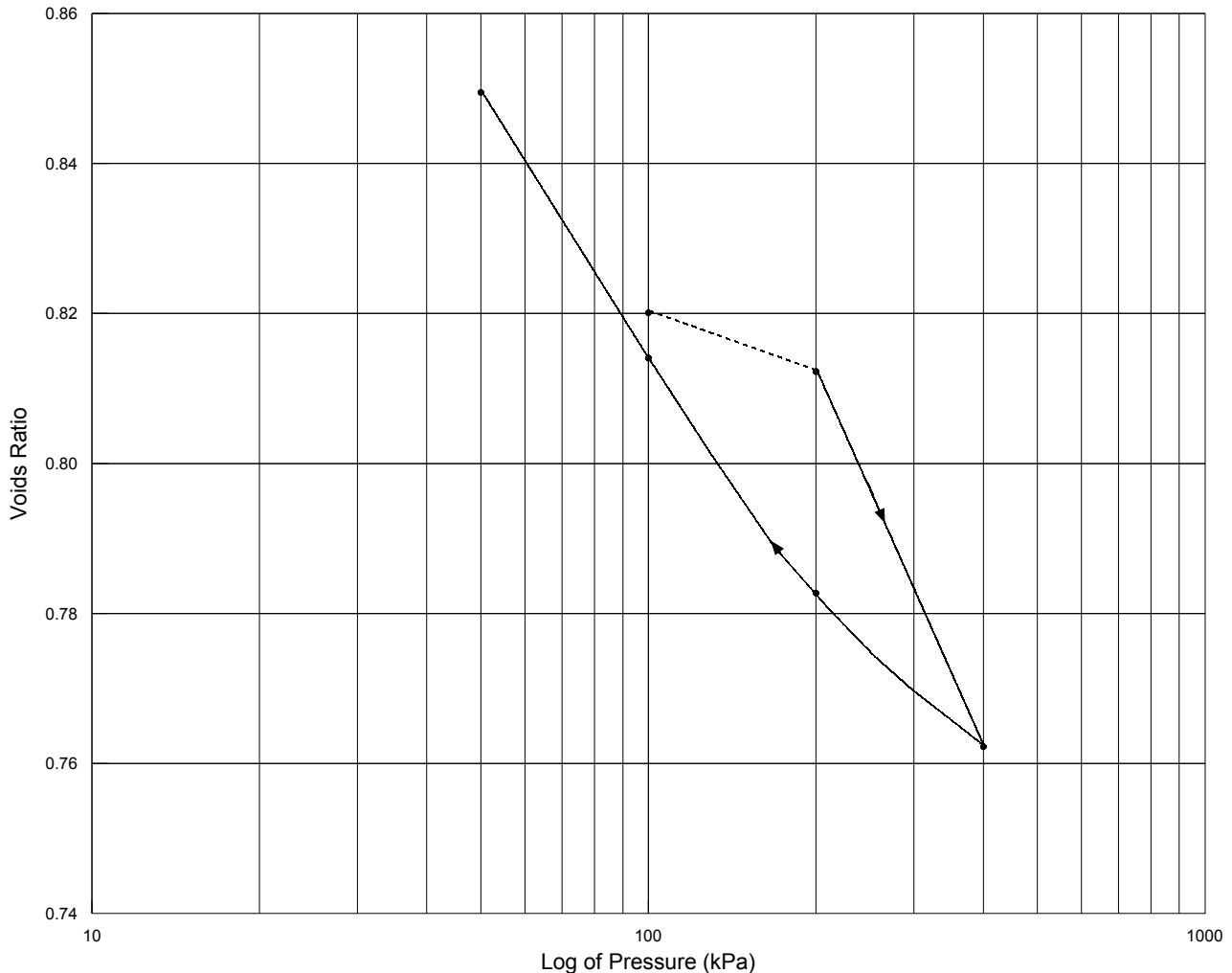
APPENDIX D

Geotechnical results

Determination of One Dimensional Consolidation Properties of Soil

Borehole No: BH1
 Sample No: -
 Depth (m): 6.00 - 6.45
 Depth of test specimen (m): 6.05
 Orientation: Vertical
 Specimen preparation: Undisturbed

Description:
 Stiff brown silty CLAY



Initial Conditions:

Moisture Content (%)	32	Particle Density (Mg/m ³)	2.72 (Assumed)
Voids Ratio	0.836	Laboratory Temperature (°C)	19.1
Diameter (mm)	76.2		
Height (mm)	18.5		
Bulk Density (Mg/m ³)	1.95		
Dry Density (Mg/m ³)	1.48		

Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)	Time Fitting Method	Voids Ratio
0 - 100	-	Specimen swelled	-	0.820
100 - 200	0.0432	9.13	t90	0.812
200 - 400	0.138	0.355	t50	0.762
400 - 200	- 0.0581	0.334 (Sv)	t50	0.783
200 - 100	- 0.176	0.139 (Sv)	t50	0.814
100 - 50	- 0.390	0.0653 (Sv)	t50	0.849

Checked and
Approved

Initials:

JS

Date: 14/05/2012

Project Number:

GEO / 18229

Project Name:

CAMLEY STREET (KINGS CROSS)
Project No: CG5221C



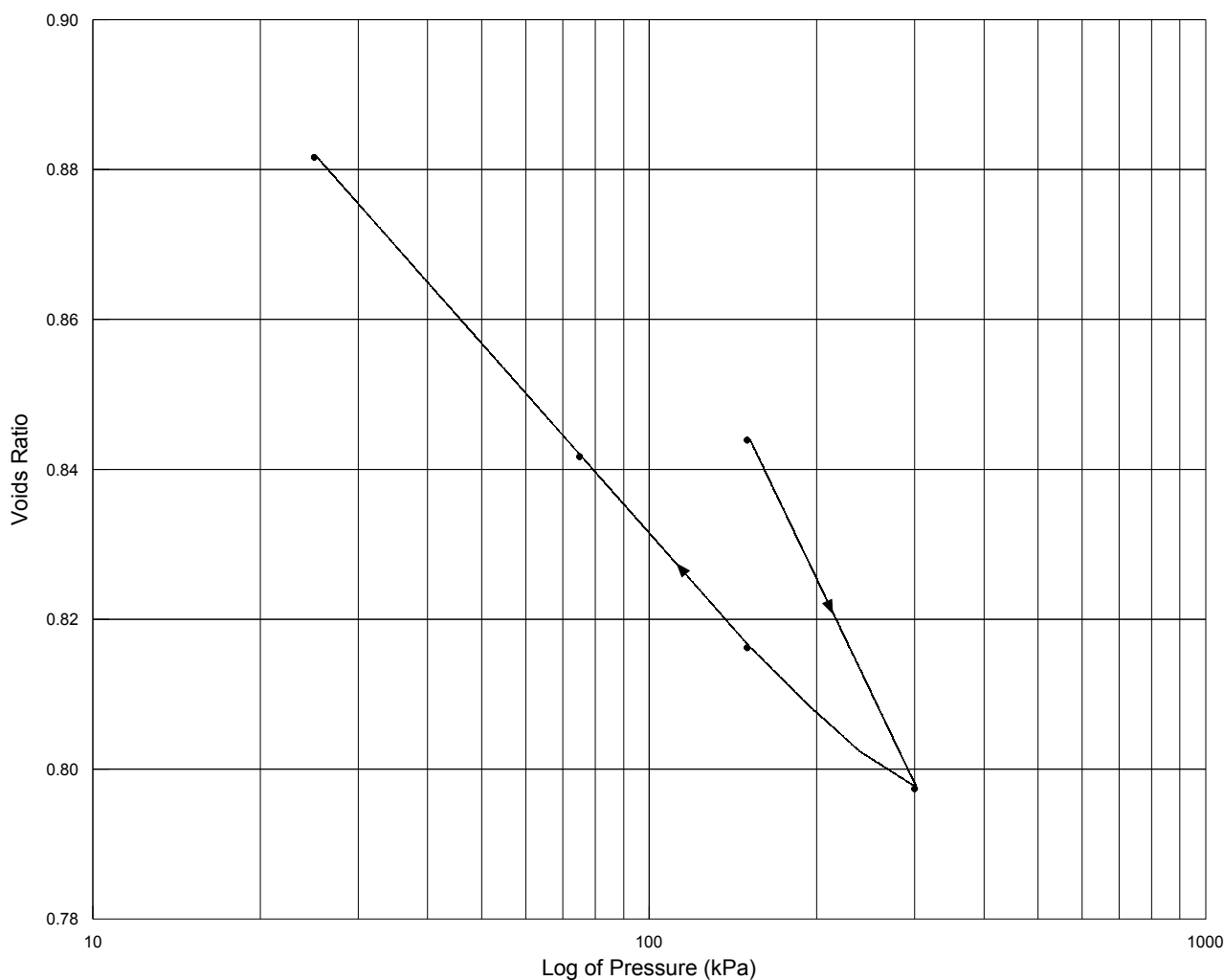
GEOLABS®

Determination of One Dimensional Consolidation Properties of Soil

Borehole No: BH4
 Sample No: -
 Depth (m): 8.00 - 8.45
 Depth of test specimen (m): 8.05
 Orientation: Vertical
 Specimen preparation: Undisturbed

Description:

Firm to stiff brown silty CLAY



Initial Conditions:

Moisture Content (%) 33
 Voids Ratio 0.880
 Diameter (mm) 75.0
 Height (mm) 18.9
 Bulk Density (Mg/m³) 1.92
 Dry Density (Mg/m³) 1.45

Particle Density (Mg/m³) 2.72 (Assumed)
 Laboratory Temperature (°C) 19.6

Pressure Range (kPa)	Mv (m²/MN)	Cv (m²/yr)	Time Fitting Method	Voids Ratio
0 - 150	0.126	0.487	t50	0.844
150 - 300	0.168	0.215	t50	0.797
300 - 150	- 0.0698	0.313 (Sv)	t50	0.816
150 - 75	- 0.187	0.172 (Sv)	t50	0.842
75 - 25	- 0.434	0.0825 (Sv)	t50	0.882

Checked and Approved

Initials:

JS

Date: 14/05/2012

Project Number:

GEO / 18229

Project Name:

CAMLEY STREET (KINGS CROSS)

Project No: CG5221C



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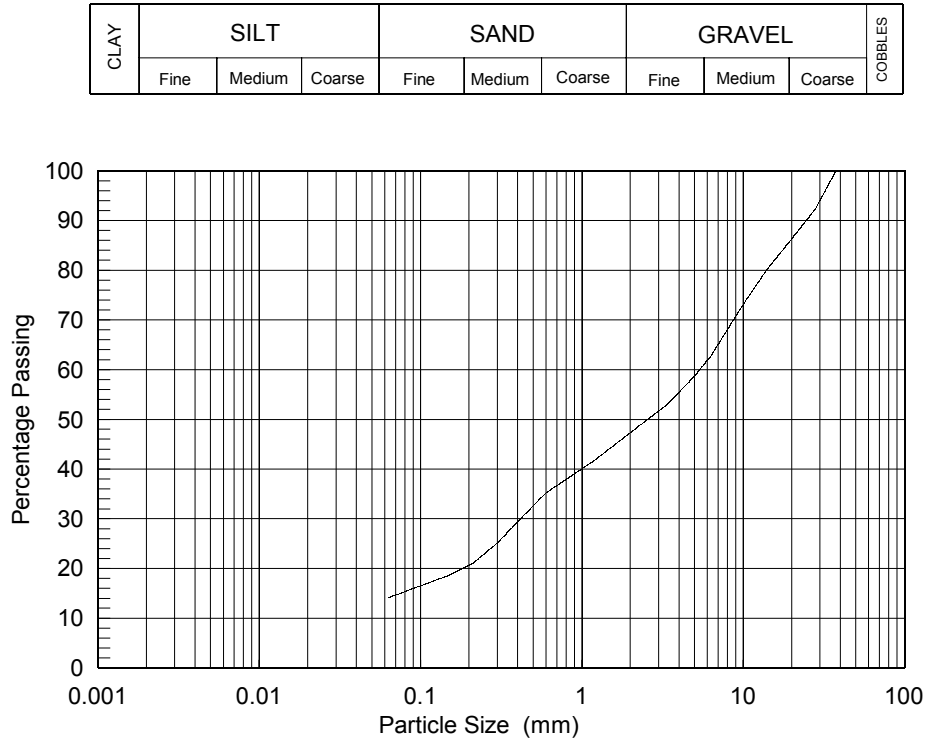
BS1377 : Part 2 : Clause 9 : 1990
Determination of Particle Size Distribution

Borehole Number: BH1
 Sample Number:
 Depth (m): 5.00 - 5.45

Description:
 MADE GROUND (Brown silty sandy gravel.
 Gravel includes clinker and slag)
 Insufficient material supplied to be representative in accordance with BS1377 requirements.

BS1377 : Part 2 : Clause 9.2 : 1990 Wet Sieving Method

SIEVE	
Sieve	% pass
200 mm	100
125 mm	100
90 mm	100
75 mm	100
63 mm	100
50 mm	100
37.5 mm	100
28 mm	92
20 mm	86
14 mm	80
10 mm	73
6.3 mm	63
5 mm	59
3.35 mm	53
2 mm	47
1.18 mm	42
600 µm	35
425 µm	30
300 µm	25
212 µm	21
150 µm	19
63 µm	14



Particle Proportions		
Cobbles	0.0	%
Gravel	52.7	%
Sand	33.2	%
Silt & Clay	14.1	%

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Approved

Initials:

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Date: 14/05/2012

Project Number:

GEO / 18229

Project Name:

CAMLEY STREET (KINGS CROSS)

Project No: CG5221C



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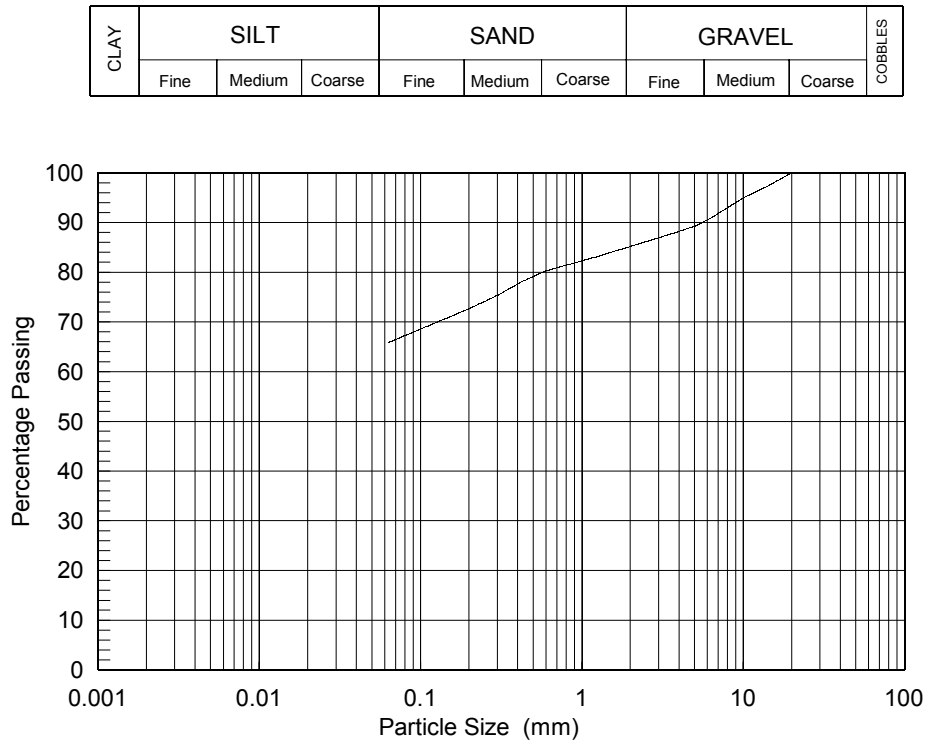
Determination of Particle Size Distribution

Borehole Number: BH2
 Sample Number:
 Depth (m): 5.45 - 5.50

Description:
 Firm brown silty fine to medium gravelly sandy CLAY

BS1377 : Part 2 : Clause 9.2 : 1990 Wet Sieving Method

SIEVE	
Sieve	% pass
200 mm	100
125 mm	100
90 mm	100
75 mm	100
63 mm	100
50 mm	100
37.5 mm	100
28 mm	100
20 mm	100
14 mm	97
10 mm	95
6.3 mm	91
5 mm	89
3.35 mm	87
2 mm	85
1.18 mm	83
600 µm	80
425 µm	78
300 µm	75
212 µm	73
150 µm	71
63 µm	66



Particle Proportions		
Cobbles	0.0	%
Gravel	14.8	%
Sand	19.4	%
Silt & Clay	65.8	%

Checked and
Approved

Initials:

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Date: 14/05/2012

Project Number:

GEO / 18229

Project Name:

CAMLEY STREET (KINGS CROSS)

Project No: CG5221C



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PROJECT NAME	CAMLEY STREET (KINGS CROSS)	Date	14/05/2012
		Approved	Simon Burke
		Page	1 of 2
PROJECT NO:	GEO / 18229		

Sample details				Description	Classification Tests					Density Tests		Undrained Triaxial Compression Tests			Chemical Tests			Other tests and comments
Borehole	Depth	No.	Type		MC	LL	PL	PI	<425 mic	Bulk	Dry	Cell Pressure	Deviator Stress	Shear Stress	pH	2:1 W/S SO4	Ground Water SO4	
No.	(m)				(%)	(%)	(%)	(%)	(%)	(Mg/m³)	(Mg/m³)	(kPa)	(kPa)	(kPa)		(g/l)	(g/l)	
BH1	5.00 - 5.45	-	D	MADE GROUND (Brown silty sandy gravel. Gravel includes clinker and slag)														Particle Size Distribution Test
BH1	6.00 - 6.45	-	U	Stiff brown silty CLAY														Oedometer Consolidation Test
BH1	8.00 - 8.45	-	U	Stiff brown CLAY	36					1.87	1.38	150	195	97				
BH1	13.50 - 13.95	-	U	Stiff dark grey CLAY	23					2.05	1.66	250	297	149				
BH1	19.50 - 19.95	-	U	Stiff dark grey CLAY	27					1.96	1.55	400	262	131				
BH2	5.45 - 5.50	-	D	Firm brown silty fine to medium gravelly sandy CLAY														Particle Size Distribution Test
BH2	16.50 - 16.95	-	U	Stiff dark grey CLAY	29					2.01	1.56	300	235	117				
BH3	10.50 - 10.95	-	U	Stiff brown CLAY	29					1.90	1.47	200	243	122				
BH4	4.00 - 4.45	-	B	Firm dark brown and black sandy gravelly clayey SILT. Gravel is fine to medium flint	35	66	34	32	81									
BH4	6.00 - 6.45	-	U	Firm brown CLAY	26					1.97	1.56	100	102	51				
BH4	6.45 - 6.50	-	D	Stiff mottled brown, orange and grey silty CLAY	30	73	28	45	100									
BH4	8.00 - 8.45	-	U	Firm to stiff brown silty CLAY														Oedometer Consolidation Test

SUMMARY OF GEOTECHNICAL TESTING

GEOLABS®

Test Report by GEOLABS Limited Bucknalls Lane, Garston, Watford, Hertfordshire, WD25 9XX

Authorised Signatories: ☐ J R Masters (Qual Mgr) ☐ C F Wallace (Tech Mgr) ☐ J Sturges (Ops Mgr) [X] Simon Burke (Snr Tech) ☐ J J M Powell (Tech Dir)

Client: Card Geotechnics Limited, 4 Godalming Business Centre, Woosack Way, Godalming, Surrey, GU7 1XW

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Quick Undrained Triaxial Compression Test

Borehole Number: BH1
 Sample Number: -
 Depth (m): 8.00 - 8.45

Description:
 Stiff brown CLAY

Single Stage Specimen

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	198.1
Diameter (mm):	103.4
Moisture Content (%):	36
Bulk Density (Mg/m ³):	1.87
Dry Density (Mg/m ³):	1.38
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	0.7
Axial displacement rate (%/min):	2.0
Cell pressure (kPa):	150
Strain at failure (%):	10.6
Maximum Deviator Stress (kPa):	195
Shear Stress σ_v (kPa):	97
Mode of failure:	

Orientation and
position of sample



Checked and
Approved

Initials:

SB

Date: 14/05/2012

Project Number:

GEO / 18229

Project Name:

CAMLEY STREET (KINGS CROSS)

Project No: CG5221C



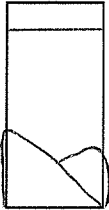
GEOLABS®

Quick Undrained Triaxial Compression Test

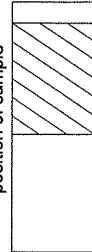
Borehole Number: BH1
 Sample Number: -
 Depth (m): 13.50 - 13.95

Description:
 Stiff dark grey CLAY

Single Stage Specimen

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	202.4
Diameter (mm):	102.9
Moisture Content (%):	23
Bulk Density (Mg/m ³):	2.05
Dry Density (Mg/m ³):	1.66
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	0.6
Axial displacement rate (%/min):	2.0
Cell pressure (kPa):	250
Strain at failure (%):	7.9
Maximum Deviator Stress (kPa):	297
Shear Stress τ_c (kPa):	149
Mode of failure:	

Orientation and
position of sample



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Initials:

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Date: 14/05/2012

Project Number:

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Project Name:

CAMLEY STREET (KINGS CROSS)

Project No: CG5221C



GEOLABS®

Quick Undrained Triaxial Compression Test

Borehole Number: BH1
 Sample Number: -
 Depth (m): 19.50 - 19.95

Description:
 Stiff dark grey CLAY

Single Stage Specimen

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	202.2
Diameter (mm):	102.9
Moisture Content (%):	27
Bulk Density (Mg/m ³):	1.96
Dry Density (Mg/m ³):	1.55
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	0.5
Axial displacement rate (%/min):	2.0
Cell pressure (kPa):	400
Strain at failure (%):	7.4
Maximum Deviator Stress (kPa):	262
Shear Stress τ_c (kPa):	131
Mode of failure:	

Orientation and
position of sample



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Date: 14/05/2012

Project Number:

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Project Name:

CAMLEY STREET (KINGS CROSS)

Project No: CG5221C



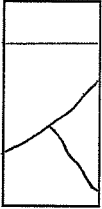
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Quick Undrained Triaxial Compression Test

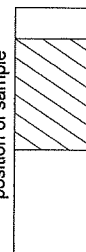
Borehole Number: BH2
 Sample Number: -
 Depth (m): 16.50 - 16.95

Description:
 Stiff dark grey CLAY

Single Stage Specimen

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	191.8
Diameter (mm):	102.6
Moisture Content (%):	29
Bulk Density (Mg/m ³):	2.01
Dry Density (Mg/m ³):	1.56
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	0.8
Axial displacement rate (%/min):	2.1
Cell pressure (kPa):	300
Strain at failure (%):	13.0
Maximum Deviator Stress (kPa):	235
Shear Stress τ_c (kPa):	117
Mode of failure:	

Orientation and
position of sample



Checked and
Approved

Initials:

SB

Date: 14/05/2012

Project Number:

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Project Name:

CAMLEY STREET (KINGS CROSS)

Project No: CG5221C



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Quick Undrained Triaxial Compression Test

Borehole Number: BH3
 Sample Number: -
 Depth (m): 10.50 - 10.95

Description:
 Stiff brown CLAY

Single Stage Specimen

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	178.2
Diameter (mm):	103.5
Moisture Content (%):	29
Bulk Density (Mg/m ³):	1.90
Dry Density (Mg/m ³):	1.47
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	0.7
Axial displacement rate (%/min):	2.2
Cell pressure (kPa):	200
Strain at failure (%):	11.2
Maximum Deviator Stress (kPa):	243
Shear Stress σ_v (kPa):	122
Mode of failure:	

Orientation and
position of sample



Checked and
Approved

Initials:

SB

Date: 14/05/2012

Project Number:

GEO / 18229

Project Name:

CAMLEY STREET (KINGS CROSS)

Project No: CG5221C



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Quick Undrained Triaxial Compression Test

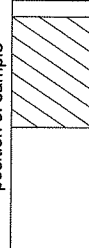
Borehole Number: BH4
 Sample Number: -
 Depth (m): 6.00 - 6.45

Description:
 Firm brown CLAY

Single Stage Specimen

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	202.6
Diameter (mm):	103.4
Moisture Content (%):	26
Bulk Density (Mg/m ³):	1.97
Dry Density (Mg/m ³):	1.56
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	0.6
Axial displacement rate (%/min):	2.0
Cell pressure (kPa):	100
Strain at failure (%):	7.9
Maximum Deviator Stress (kPa):	102
Shear Stress σ_v (kPa):	51
Mode of failure:	

Orientation and
position of sample



Checked and
Approved

Initials:

SB

Date: 14/05/2012

Project Number:

GEO / 18229

Project Name:

CAMLEY STREET (KINGS CROSS)

Project No: CG5221C



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APPENDIX E

Dynamic probe results

DYNAMIC PROBE LOG



Project 103 Camley Street, London				PROBE No DPT1A
Job No CG/5521C	Date 10-04-12 10-04-12	Ground Level (m)	Co-Ordinates (m)	
Client Urbanest UK Limited				Sheet 1 of 1

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
0	0								
1	18								
2	9								
3	5								
4	2								
5	3								
6	2								
7	2								
8	50							50	
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
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22									
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47									
48									
49									
50									

Hammer Wt (kg)	63.5		General Remarks 1. DPT 1A positioned 1.5m from retaining wall 2. Reinforced concrete to 0.1mbgl 3. Made Ground to 1.2mbgl where refusal met (+50 blows)
Hammer Drop (mm)	750		
Cone Dia (mm)	50.5		
Cone Type	DPSH		
Damper			

Method/ Plant Used	Tracked window sample rig	Field Crew Bainbridge	Logged By CK	Checked By IMM
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CGL DP LOG CG5521C.GPJ GINT STD AGS 3.1.GDT 23/5/12

DYNAMIC PROBE LOG



Project 103 Camley Street, London				PROBE No DPT1B
Job No CG/5521C	Date 10-04-12 10-04-12	Ground Level (m)	Co-Ordinates (m)	
Client Urbanest UK Limited				Sheet 1 of 1

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
0	0								
1	18								
	13								
	5								
3	2								
	3								
	2								
2	2								
	50								
2									
3									
4									
5									
6									
7									

Hammer Wt (kg)	63.5		General Remarks 1. DPT 1B positioned 2.0m from retaining wall 2. Reinforced concrete to 0.1mbgl 3. Made Ground to 1.2mbgl where refusal met (+50 blows)
Hammer Drop (mm)	750		
Cone Dia (mm)	50.5		
Cone Type	DPSH		
Damper			

Method/ Plant Used	Tracked window sample rig	Field Crew Bainbridge	Logged By CK	Checked By IMM
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CGL DP LOG CG5521C.GPJ GINT STD AGS 3.1.GDT 23/5/12

DYNAMIC PROBE LOG



Project 103 Camley Street, London				PROBE No DPT1C
Job No CG/5521C	Date 10-04-12 10-04-12	Ground Level (m)	Co-Ordinates (m)	
Client Urbanest UK Limited				Sheet 1 of 1

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
0	0								
0.9	8								
1.3	3								
1.2	2								
1.4	4								
1.3	3								
1.2	2								
1.5	50							50	
2									
3									
4									
5									
6									
7									

Hammer Wt (kg)	63.5		General Remarks 1. DPT 1C positioned 2.5m from retaining wall 2. Reinforced concrete to 0.1mbgl 3. Made Ground to 1.2mbgl where refusal met (+50 blows)
Hammer Drop (mm)	750		
Cone Dia (mm)	50.5		
Cone Type	DPSH		
Damper			

Method/ Plant Used	Tracked window sample rig	Field Crew Bainbridge	Logged By CK	Checked By IMM
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CGL DP LOG CG5521C.GPJ GINT STD AGS 3.1.GDT 23/5/12

DYNAMIC PROBE LOG



Project 103 Camley Street, London				PROBE No DPT1D
Job No CG/5521C	Date 10-04-12 10-04-12	Ground Level (m)	Co-Ordinates (m)	
Client Urbanest UK Limited				Sheet 1 of 1

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
0	0								
0.8	5								
1.3	2								
1.8	3								
2.3	3								
2.8	2								
3.3	8								
3.8	50							50	
4.3									
4.8									
5.3									
5.8									
6.3									
6.8									
7.3									

Hammer Wt (kg)	63.5		General Remarks 1. DPT 1D positioned 2.5m from retaining wall, and 1.0m west of DPT 1C 2. Reinforced concrete to 0.1mbgl 3. Made Ground to 1.4mbgl where refusal met (+50 blows)
Hammer Drop (mm)	750		
Cone Dia (mm)	50.5		
Cone Type	DPSH		
Damper			

Method/ Plant Used	Tracked window sample rig	Field Crew Bainbridge	Logged By CK	Checked By IMM
-----------------------	---------------------------	--------------------------	-----------------	-------------------

CGL DP LOG CG5521C.GPJ GINT STD AGS 3.1.GDT 23/5/12

DYNAMIC PROBE LOG



Project 103 Camley Street, London				PROBE No DPT1E
Job No CG/5521C	Date 10-04-12 10-04-12	Ground Level (m)	Co-Ordinates (m)	
Client Urbanest UK Limited				Sheet 1 of 1

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
0	0								
0.8	8								
0.9	9								
0.6	6								
5	5								
10	10								
8	8								
5	5								
4	13								
10	10								
50	50							50	
2									
3									
4									
5									
6									
7									

Hammer Wt (kg)	63.5		General Remarks 1. DPT 1E positioned 2.5m from retaining wall and 1.0m to the west of DPT 1D 2. Reinforced concrete to 0.1mbgl 3. Made Ground to 1.4mbgl where refusal met (+50 blows)
Hammer Drop (mm)	750		
Cone Dia (mm)	50.5		
Cone Type	DPSH		
Damper			

Method/ Plant Used	Tracked window sample rig	Field Crew Bainbridge	Logged By CK	Checked By IMM
-----------------------	---------------------------	--------------------------	-----------------	-------------------

CGL DP LOG CG5521C.GPJ GINT STD AGS 3.1.GDT 23/5/12

DYNAMIC PROBE LOG



Project 103 Camley Street, London				PROBE No DPT1F
Job No CG/5521C	Date 10-04-12 10-04-12	Ground Level (m)	Co-Ordinates (m)	
Client Urbanest UK Limited				Sheet 1 of 1

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
0	0								
1	15								
2	7								
3	5								
4	3								
5	2								
6	3								
7	2								
8	1								
9	1								
10	50								
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

Hammer Wt (kg)	63.5		General Remarks 1. DPT 1F positioned 2.5m from retaining wall and 1.0m to the east of DPT 1C 2. Reinforced concrete to 0.1mbgl 3. Made Ground to 1.4mbgl where refusal met (+50 blows)
Hammer Drop (mm)	750		
Cone Dia (mm)	50.5		
Cone Type	DPSH		
Damper			
Method/ Plant Used	Tracked window sample rig	Field Crew Bainbridge	Logged By CK
			Checked By IMM

CGL DP LOG CG5521C.GPJ GINT STD AGS 3.1.GDT 23/5/12

DYNAMIC PROBE LOG



Project 103 Camley Street, London				PROBE No DPT1G
Job No CG/5521C	Date 10-04-12 10-04-12	Ground Level (m)	Co-Ordinates (m)	
Client Urbanest UK Limited				Sheet 1 of 1

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
0	0								
1	13								
	11								
	18								
	7								
	5								
	3								
	3								
	3								
	3								
	50								
2									
3									
4									
5									
6									
7									

Hammer Wt (kg)	63.5	General Remarks 1. DPT 1G positioned 3.25m from retaining wall 2. Reinforced concrete to 0.1mbgl 3. Made Ground to 1.4mbgl where refusal met (+50 blows)
Hammer Drop (mm)	750	
Cone Dia (mm)	50.5	
Cone Type	DPSH	
Damper		

Method/ Plant Used	Tracked window sample rig	Field Crew Bainbridge	Logged By CK	Checked By IMM
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CGL DP LOG CG5521C.GPJ GINT STD AGS 3.1.GDT 23/5/12

DYNAMIC PROBE LOG



Project 103 Camley Street, London				PROBE No DPT1H
Job No CG/5521C	Date 10-04-12 10-04-12	Ground Level (m)	Co-Ordinates (m)	
Client Urbanest UK Limited				Sheet 1 of 2

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
1	0								
	0								
	12								
	11								
	13								
	12								
	11								
	9								
	6								
	5								
2	4								
	4								
	3								
	3								
	3								
	2								
	3								
	4								
	2								
	1								
3	2								
	2								
	3								
	3								
	4								
	5								
	4								
	1								
	1								
	0								
4	1								
	1								
	2								
	1								
	1								
	2								
	1								
	1								
	0								
	1								
5	1								
	1								
	1								
	1								
	1								
	2								
	1								
	1								
	0								
	1								
6	1								
	0								
	1								
	2								
	1								
	2								
	1								
	0								
	1								
	2								
7	1								
	2								
	1								
	2								
	2								
	2								
	2								
	2								
	2								
	3								

Hammer Wt (kg)	63.5		General Remarks 1. DPT 1H positioned 3.50m from retaining wall 2. Reinforced concrete to 0.1mbgl 3. No obstructions, probe hole completed to 8.0mbgl
Hammer Drop (mm)	750		
Cone Dia (mm)	50.5		
Cone Type	DPSH		
Damper			

Method/ Plant Used	Tracked window sample rig	Field Crew Bainbridge	Logged By CK	Checked By IMM
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CGL DP LOG CG5521C.GPJ GINT STD AGS 3.1.GDT 23/5/12

DYNAMIC PROBE LOG



Project 103 Camley Street, London				PROBE No DPT1H
Job No CG/5521C	Date 10-04-12 10-04-12	Ground Level (m)	Co-Ordinates (m)	
Client Urbanest UK Limited				Sheet 2 of 2

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
9	2	2							
10									
11									
12									
13									
14									
15									

Hammer Wt (kg)	63.5		General Remarks 1. DPT 1H positioned 3.50m from retaining wall 2. Reinforced concrete to 0.1mbgl 3. No obstructions, probe hole completed to 8.0mbgl
Hammer Drop (mm)	750		
Cone Dia (mm)	50.5		
Cone Type	DPSH		
Damper			

Method/ Plant Used	Tracked window sample rig	Field Crew Bainbridge	Logged By CK	Checked By IMM
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CGL DP LOG CG5521C.GPJ GINT STD AGS 3.1.GDT 23/5/12

DYNAMIC PROBE LOG



Project 103 Camley Street, London				PROBE No DPT2A
Job No CG/5521C	Date 10-04-12 10-04-12	Ground Level (m)	Co-Ordinates (m)	
Client Urbanest UK Limited				Sheet 1 of 1

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
0	0								
0.5	5								
1	4								
1.5	2								
2	2								
2.5	1								
3	1								
3.5	1								
4	1								
4.5	1								
5	50								
6									
7									

Hammer Wt (kg)	63.5	General Remarks 1. DPT 2A positioned 1.5m from retaining wall 2. Reinforced concrete to 0.1mbgl 3. Made Ground to 1.4mbgl where refusal met (+50 blows)
Hammer Drop (mm)	750	
Cone Dia (mm)	50.5	
Cone Type	DPSH	
Damper		

Method/ Plant Used	Tracked window sample rig	Field Crew Bainbridge	Logged By CK	Checked By IMM
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CGL DP LOG CG5521C.GPJ GINT STD AGS 3.1.GDT 23/5/12

DYNAMIC PROBE LOG



Project 103 Camley Street, London				PROBE No DPT2B
Job No CG/5521C	Date 10-04-12 10-04-12	Ground Level (m)	Co-Ordinates (m)	
Client Urbanest UK Limited				Sheet 1 of 1

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
0	0								
1	10								
2	5								
3	8								
4	2								
5	1								
6	2								
7	2								
8	1								
9	18								
10	50								
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
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32									
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34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

Hammer Wt (kg)	63.5		General Remarks 1. DPT 2B positioned 2.5m from retaining wall 2. Reinforced concrete to 0.1mbgl 3. Made Ground to 1.4mbgl where refusal met (+50 blows)
Hammer Drop (mm)	750		
Cone Dia (mm)	50.5		
Cone Type	DPSH		
Damper			
Method/ Plant Used	Tracked window sample rig	Field Crew Bainbridge	Logged By CK
		Checked By IMM	

CGL DP LOG CG5521C.GPJ GINT STD AGS 3.1.GDT 23/5/12

DYNAMIC PROBE LOG



Project 103 Camley Street, London				PROBE No DPT2C
Job No CG/5521C	Date 10-04-12 10-04-12	Ground Level (m)	Co-Ordinates (m)	
Client Urbanest UK Limited				Sheet 1 of 2

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
0	0								
1	0 11 9								
2	8 5 5 2								
3	2 2 1 1 1								
4	1 1 1 1 2								
5	1 2 3 2 2								
6	1 1 1 1 1								
7	0 2 1 1 0								
8	0 1 1 4 2								
9	1 1 2 2 1								
10	2 3 6 5 2								
11	3 2 3 2 3								
12	2 3 2 2 2								
13	1 2 2 3 2								
14	3 4 3 3 3								
15	2 3 2 3								

Hammer Wt (kg)	63.5	General Remarks 1. DPT 2C positioned 3.5m from retaining wall 2. Reinforced concrete to 0.1mbgl 3. Terminated at 8.0mbgl in London Clay Formation
Hammer Drop (mm)	750	
Cone Dia (mm)	50.5	
Cone Type	DPSH	
Damper		

Method/ Plant Used	Tracked window sample rig	Field Crew Bainbridge	Logged By CK	Checked By IMM
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CGL DP LOG CG5521C.GPJ GINT STD AGS 3.1.GDT 23/5/12

DYNAMIC PROBE LOG



Project 103 Camley Street, London				PROBE No DPT2C
Job No CG/5521C	Date 10-04-12 10-04-12	Ground Level (m)	Co-Ordinates (m)	
Client Urbanest UK Limited				Sheet 2 of 2

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
9	3 2								
10									
11									
12									
13									
14									
15									

Hammer Wt (kg)	63.5		General Remarks 1. DPT 2C positioned 3.5m from retaining wall 2. Reinforced concrete to 0.1mbgl 3. Terminated at 8.0mbgl in London Clay Formation
Hammer Drop (mm)	750		
Cone Dia (mm)	50.5		
Cone Type	DPSH		
Damper			

Method/ Plant Used	Tracked window sample rig	Field Crew Bainbridge	Logged By CK	Checked By IMM
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CGL DP LOG CG5521C.GPJ GINT STD AGS 3.1.GDT 23/5/12

APPENDIX F

Chemical test results

**Charlene Knox**

Card Geotechnics Ltd
4 Godalming Business Centre
Woolsack Way
Godalming
Surrey
GU7 1XW

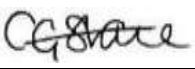
i2 Analytical Ltd.
Building 19,
BRE,
Garston,
Watford,
WD25 9XX

t: 01483 310600
f: 01483 527285
e: charlenek@cardgeotechnics.co.uk

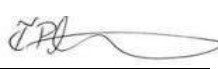
t: 01923 67 00 20
f: 01923 67 00 30
e: reception@i2analytical.com

Analytical Report Number : 12-33502

Project / Site name:	103 Camley Street	Samples received on:	05/04/2012
Your job number:	CG/5521C	Samples instructed on:	13/04/2012
Your order number:		Analysis completed by:	20/04/2012
Report Issue Number:	1	Report issued on:	23/04/2012
Samples Analysed:	8 leachate samples - 46 soil samples		

Signed: 

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed: 

Thurstan Plummer
Organics Technical Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.



Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211048	211049	211050	211051	211052
Sample Reference				WS1	WS1	WS1	WS1	WS2B
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.80	2.00	3.50	1.50
Date Sampled				02/04/2012	02/04/2012	02/04/2012	02/04/2012	02/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	N/A	< 0.1	38	< 0.1
Moisture Content	%	N/A	NONE	22	N/A	20	20	11
Total mass of sample received	kg	0.001	NONE	1.8	N/A	1.6	1.7	1.5
Asbestos Identification Name	Type	N/A	ISO 17025	N/A	Chrysotile - Hard/cement type material	N/A	N/A	N/A
Asbestos in Soil Screen	P/A	N/A	ISO 17025	N/A	Present	N/A	N/A	N/A

General Inorganics

pH	pH Units	N/A	MCERTS	8.1	N/A	8.1	8.1	7.8
Total Cyanide	mg/kg	1	MCERTS	< 1	N/A	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	100	ISO 17025	830	N/A	2900	1700	2000
Organic Matter	%	0.1	MCERTS	1.5	N/A	1.4	2.1	1.5

Total Phenols

Total Phenols (monohydric)	mg/kg	2	MCERTS	< 2.0	N/A	< 2.0	< 2.0	< 2.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	N/A	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.2	MCERTS	< 0.20	N/A	< 0.20	< 0.20	< 0.20
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	N/A	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.2	MCERTS	< 0.20	N/A	< 0.20	< 0.20	< 0.20
Phenanthrene	mg/kg	0.2	MCERTS	< 0.20	N/A	< 0.20	1.4	1.9
Anthracene	mg/kg	0.1	MCERTS	< 0.10	N/A	< 0.10	0.40	0.57
Fluoranthene	mg/kg	0.2	MCERTS	< 0.20	N/A	< 0.20	2.7	2.3
Pyrene	mg/kg	0.2	MCERTS	< 0.20	N/A	< 0.20	2.3	2.0
Benzo(a)anthracene	mg/kg	0.2	MCERTS	< 0.20	N/A	< 0.20	1.1	0.79
Chrysene	mg/kg	0.05	MCERTS	< 0.05	N/A	< 0.05	1.4	1.2
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	N/A	< 0.10	1.5	1.4
Benzo(k)fluoranthene	mg/kg	0.2	MCERTS	< 0.20	N/A	< 0.20	0.90	0.45
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	N/A	< 0.10	1.3	0.89
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	MCERTS	< 0.20	N/A	< 0.20	0.77	0.60
Dibenz(a,h)anthracene	mg/kg	0.2	MCERTS	< 0.20	N/A	< 0.20	< 0.20	< 0.20
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	N/A	< 0.05	1.0	0.69
Coronene	mg/kg	0.05	NONE	< 0.05	N/A	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	N/A	< 1.6	15	13
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	N/A	15	14	14
Barium (aqua regia extractable)	mg/kg	1	MCERTS	130	N/A	290	150	160
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.2	N/A	1.2	1.2	1.0
Boron (water soluble)	mg/kg	0.2	MCERTS	2.0	N/A	1.9	1.8	1.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	N/A	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	N/A	N/A	< 4.0	N/A
Chromium (III)	mg/kg	1	NONE	38	N/A	N/A	78	N/A
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	38	N/A	31	78	32
Copper (aqua regia extractable)	mg/kg	1	MCERTS	33	N/A	44	74	58
Lead (aqua regia extractable)	mg/kg	2	MCERTS	230	N/A	2100	330	310
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	N/A	0.6	0.4	< 0.3
Nickel (aqua regia extractable)	mg/kg	2	MCERTS	43	N/A	32	57	30
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	N/A	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	62	N/A	59	65	54
Zinc (aqua regia extractable)	mg/kg	2	MCERTS	92	N/A	120	160	150

Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211048	211049	211050	211051	211052
Sample Reference				WS1	WS1	WS1	WS1	WS2B
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.80	2.00	3.50	1.50
Date Sampled				02/04/2012	02/04/2012	02/04/2012	02/04/2012	02/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	N/A	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	N/A	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	N/A	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	N/A	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	N/A	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	N/A	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons								
TPH7 - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	N/A	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	N/A	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	N/A	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	N/A	< 1.0	< 1.0	< 1.0
TPH7 - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	N/A	< 2.0	3.5	< 2.0
TPH7 - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	N/A	< 8.0	15	< 8.0
TPH7 - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	N/A	< 8.0	91	25
TPH7 - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	N/A	< 10	110	25
TPH7 - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	N/A	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	N/A	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	N/A	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	N/A	< 1.0	< 1.0	< 1.0
TPH7 - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	N/A	< 2.0	< 2.0	< 2.0
TPH7 - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	N/A	< 10	< 10	< 10
TPH7 - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	N/A	< 10	< 10	< 10
TPH7 - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	N/A	< 10	< 10	< 10
PCBs by GC-MS								
PCB Congener 28	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 52	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 101	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 118	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 138	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 153	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 180	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
Total PCBs	mg/kg	0.3	NONE	N/A	N/A	N/A	N/A	N/A



Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211053	211054	211055	211056	211057
Sample Reference				WS2B	WS3	WS3	WS4	WS5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.50	1.00	4.50	0.50	0.50
Date Sampled				02/04/2012	02/04/2012	02/04/2012	02/04/2012	02/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	45	51
Moisture Content	%	N/A	NONE	4.8	21	21	8.1	5.6
Total mass of sample received	kg	0.001	NONE	1.8	1.3	1.6	2.0	1.4
Asbestos Identification Name	Type	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A
Asbestos in Soil Screen	P/A	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A

General Inorganics

pH	pH Units	N/A	MCERTS	8.2	7.8	8.1	8.9	8.3
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	2	< 1
Total Sulphate as SO ₄	mg/kg	100	ISO 17025	2300	1400	950	3900	230
Organic Matter	%	0.1	MCERTS	1.4	3.0	1.7	3.0	0.8

Total Phenols

Total Phenols (monohydric)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.2	MCERTS	0.35	< 0.20	< 0.20	0.82	< 0.20
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	2.0	< 0.10
Fluorene	mg/kg	0.2	MCERTS	0.47	< 0.20	< 0.20	2.3	< 0.20
Phenanthrene	mg/kg	0.2	MCERTS	4.0	< 0.20	< 0.20	19	< 0.20
Anthracene	mg/kg	0.1	MCERTS	1.1	< 0.10	< 0.10	5.9	< 0.10
Fluoranthene	mg/kg	0.2	MCERTS	4.2	< 0.20	0.75	33	< 0.20
Pyrene	mg/kg	0.2	MCERTS	3.1	< 0.20	0.66	27	< 0.20
Benzo(a)anthracene	mg/kg	0.2	MCERTS	1.5	< 0.20	0.34	14	< 0.20
Chrysene	mg/kg	0.05	MCERTS	1.6	< 0.05	0.52	14	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	1.6	< 0.10	0.53	17	< 0.10
Benzo(k)fluoranthene	mg/kg	0.2	MCERTS	0.87	< 0.20	< 0.20	5.8	< 0.20
Benzo(a)pyrene	mg/kg	0.1	MCERTS	1.2	< 0.10	0.37	13	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	MCERTS	0.70	< 0.20	< 0.20	6.9	< 0.20
Dibenz(a,h)anthracene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	1.2	< 0.20
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.78	< 0.05	< 0.05	8.0	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	4.1	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	1.6	NONE	21	< 1.6	3.2	170	< 1.6
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	10	14	15	29	11
Barium (aqua regia extractable)	mg/kg	1	MCERTS	240	150	150	1300	56
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.6	1.2	1.2	1.1	0.8
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	3.0	2.6	0.4	< 0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	1.6	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	N/A	N/A	N/A	< 4.0	N/A
Chromium (III)	mg/kg	1	NONE	N/A	N/A	N/A	38	N/A
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19	30	32	38	19
Copper (aqua regia extractable)	mg/kg	1	MCERTS	60	66	78	160	28
Lead (aqua regia extractable)	mg/kg	2	MCERTS	310	240	310	2500	69
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	1.4	1.2	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	2	MCERTS	20	24	23	44	18
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	37	64	67	46	33
Zinc (aqua regia extractable)	mg/kg	2	MCERTS	180	84	110	1900	35

Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211053	211054	211055	211056	211057
Sample Reference				WS2B	WS3	WS3	WS4	WS5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.50	1.00	4.50	0.50	0.50
Date Sampled				02/04/2012	02/04/2012	02/04/2012	02/04/2012	02/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH7 - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	3.7	< 2.0
TPH7 - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	24	< 8.0
TPH7 - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	19	< 8.0	< 8.0	140	< 8.0
TPH7 - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	19	< 10	< 10	160	< 10

TPH7 - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	15	< 2.0
TPH7 - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	14	< 10	< 10	140	< 10
TPH7 - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	290	< 10
TPH7 - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	14	< 10	< 10	450	< 10

PCBs by GC-MS

PCB Congener 28	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 52	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 101	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 118	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 138	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 153	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 180	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
Total PCBs	mg/kg	0.3	NONE	N/A	N/A	N/A	N/A	N/A

Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211058	211059	211060	211061	211062
Sample Reference				WS5	WS5	WS6	WS6	WS7
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.50	4.50	0.60	1.80	2.00
Date Sampled				02/04/2012	02/04/2012	03/04/2012	03/04/2012	03/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	33	54	41
Moisture Content	%	N/A	NONE	21	23	18	6.8	20
Total mass of sample received	kg	0.001	NONE	1.5	1.2	1.1	1.3	1.3
Asbestos Identification Name	Type	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A
Asbestos in Soil Screen	P/A	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A

General Inorganics

pH	pH Units	N/A	MCERTS	8.0	7.9	8.1	8.2	8.0
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	100	ISO 17025	1800	1300	930	510	3000
Organic Matter	%	0.1	MCERTS	3.6	2.7	2.9	1.0	1.0

Total Phenols

Total Phenols (monohydric)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Phenanthrene	mg/kg	0.2	MCERTS	< 0.20	0.85	3.0	< 0.20	< 0.20
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.48	< 0.10	< 0.10
Fluoranthene	mg/kg	0.2	MCERTS	< 0.20	1.1	3.8	< 0.20	< 0.20
Pyrene	mg/kg	0.2	MCERTS	< 0.20	0.93	2.8	< 0.20	< 0.20
Benzo(a)anthracene	mg/kg	0.2	MCERTS	< 0.20	0.59	1.4	< 0.20	< 0.20
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.86	1.8	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.78	1.5	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.2	MCERTS	< 0.20	0.57	0.86	< 0.20	< 0.20
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	0.72	1.2	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	0.49	< 0.20	< 0.20
Dibenz(a,h)anthracene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.58	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	6.4	18	< 1.6	< 1.6
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	17	18	12	17
Barium (aqua regia extractable)	mg/kg	1	MCERTS	130	120	140	49	160
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.5	1.3	1.3	0.8	0.7
Boron (water soluble)	mg/kg	0.2	MCERTS	0.8	2.4	3.6	< 0.2	1.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	N/A	N/A	N/A	N/A
Chromium (III)	mg/kg	1	NONE	39	N/A	N/A	N/A	N/A
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	39	30	27	21	27
Copper (aqua regia extractable)	mg/kg	1	MCERTS	48	210	140	23	51
Lead (aqua regia extractable)	mg/kg	2	MCERTS	170	280	490	59	330
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.7	0.9	1.8	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	2	MCERTS	33	31	27	19	26
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	81	70	61	38	54
Zinc (aqua regia extractable)	mg/kg	2	MCERTS	82	97	170	37	120

Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211058	211059	211060	211061	211062
Sample Reference				WS5	WS5	WS6	WS6	WS7
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.50	4.50	0.60	1.80	2.00
Date Sampled				02/04/2012	02/04/2012	03/04/2012	03/04/2012	03/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	2.2	3.7	180	18	2.9
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH7 - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH7 - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH7 - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH7 - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

TPH7 - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	0.2	< 0.1	< 0.1
TPH7 - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH7 - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	11	< 10	< 10
TPH7 - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH7 - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	11	< 10	< 10

PCBs by GC-MS

PCB Congener 28	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 52	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 101	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 118	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 138	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 153	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 180	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
Total PCBs	mg/kg	0.3	NONE	N/A	N/A	N/A	N/A	N/A



Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211063	211064	211065	211066	211067
Sample Reference				WS7	WS8	WS8	WS9	WS9
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.00	2.00	4.00	0.50	1.50
Date Sampled				03/04/2012	03/04/2012	03/04/2012	03/04/2012	03/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	42	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	25	12	15	20	22
Total mass of sample received	kg	0.001	NONE	1.5	1.3	1.2	1.2	1.3
Asbestos Identification Name	Type	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A
Asbestos in Soil Screen	P/A	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A

General Inorganics

pH	pH Units	N/A	MCERTS	8.4	9.4	8.4	8.2	8.0
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	100	ISO 17025	2100	16000	34000	680	670
Organic Matter	%	0.1	MCERTS	1.9	1.7	1.9	1.1	1.6

Total Phenols

Total Phenols (monohydric)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	2.1	0.82	< 0.10	< 0.10
Fluorene	mg/kg	0.2	MCERTS	< 0.20	1.1	0.47	< 0.20	< 0.20
Phenanthrene	mg/kg	0.2	MCERTS	< 0.20	11	4.3	< 0.20	< 0.20
Anthracene	mg/kg	0.1	MCERTS	< 0.10	1.7	0.93	< 0.10	< 0.10
Fluoranthene	mg/kg	0.2	MCERTS	< 0.20	12	6.2	< 0.20	< 0.20
Pyrene	mg/kg	0.2	MCERTS	< 0.20	9.3	5.0	< 0.20	< 0.20
Benzo(a)anthracene	mg/kg	0.2	MCERTS	< 0.20	4.9	3.0	< 0.20	< 0.20
Chrysene	mg/kg	0.05	MCERTS	< 0.05	5.1	2.7	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	5.2	4.1	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.2	MCERTS	< 0.20	2.4	1.2	< 0.20	< 0.20
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	4.1	2.8	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	MCERTS	< 0.20	2.3	1.7	< 0.20	< 0.20
Dibenz(a,h)anthracene	mg/kg	0.2	MCERTS	< 0.20	0.32	0.20	< 0.20	< 0.20
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	2.6	2.0	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	64	35	< 1.6	< 1.6
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	16	20	13	14	16
Barium (aqua regia extractable)	mg/kg	1	MCERTS	160	320	210	100	120
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.0	0.3	0.6	1.4	1.2
Boron (water soluble)	mg/kg	0.2	MCERTS	0.9	0.4	1.4	0.4	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	N/A	N/A	N/A	< 4.0	N/A
Chromium (III)	mg/kg	1	NONE	N/A	N/A	N/A	38	N/A
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	31	21	25	38	37
Copper (aqua regia extractable)	mg/kg	1	MCERTS	74	160	76	46	46
Lead (aqua regia extractable)	mg/kg	2	MCERTS	330	280	230	170	130
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.1	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	2	MCERTS	28	23	25	37	26
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	65	30	41	77	70
Zinc (aqua regia extractable)	mg/kg	2	MCERTS	130	350	340	75	66