

Appendix A.2

Soils Investigations & Basement Impact Assessment

BASEMENT IMPACT ASSESSMENT

FOR

WOLSEY MEWS

LONDON NW5 2DX

Reference: 15363-c150602 re-001

02/06/2015



ISSUE STATUS

Issue No.	Date of issue	Details	Produced By	Checked by
1	02/06/2015		L.A. McDonald	<i>L.A. McDonald</i>
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Report prepared by Lachlan McDonald BSc CEng MIStructE MICE

Report checked by Lachlan McDonald BSc CEng MIStructE MICE



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3. Thames Water Sewer Records
4. Camden Geological, Hydrogeological and Hydrological Maps
5. Site Location Plan

1.0 **Brief**

Ellis and Moore Consulting Engineers Ltd have been instructed by Burd Haward Architects Ltd. to undertake a Basement Impact Assessment (BIA) in accordance with the Guidelines prepared by Camden Council.

The wording in the Camden document is as follows:

Subterranean development of the site would trigger the need for a Basement Impact Assessment (BIA) prepared in accordance with Camden CPG4 (Basement and Lightwells). The policy DP27 sets out that applications should demonstrate (by Methodologies appropriate to the site) that schemes comply with the criteria (A) to (H). The BIA should address the impact of the proposals in terms of the stability and water environment, using the screening flow charts set out in the CPG. In particular, structural stability of the existing building on the site is of concern and so is the issue of slope stability which will require attention.

The report follows the Camden Council requirements as per the following Stages.

Stage 1	Screening
Stage 2	Scoping
Stage 3	Site Investigation and Study
Stage 4	Impact Assessment.

In preparing the report, the following Appendices have been relied on to provide information.

Appendix 1	Soils Investigation by Chelmer Site Investigations
Appendix 2	Structural Scheme drawings prepared by Ellis and Moore for the basement
Appendix 3	Thames Water Sewer Records
Appendix 4	Camden Geological, Hydrogeological and Hydrological Maps.

The report has been prepared by Lachlan McDonald BSc MICE MIStructE of Ellis and Moore Consulting Engineers Ltd.

2.0 **Stage 1 - Screening**

At the present time the site is empty apart from a row of garages fronting onto Wolsey Mews. The buildings are single storey.

The site is generally flat at the approximate level of the road outside the entrance which is in Wolsey Mews. Standing in the street there is a two storey building to the right which does not have a basement. To the left there is not a building on the site boundary.

The intention is to construct a three storey building including part basement as indicated in Appendix 2.

The flow charts Figures 1,2 and 3 in the Camden Planning Guidance document have been considered and it has been decided that a Basement Impact Assessment (BIA) is necessary because of groundwater potential.

The following are the answers to the Flow Screening Chart Figure 1.

- 1a The site is not located above an aquifer as it is underlain by London Clay.
- 1b From the soils investigation the level of the basement floor will be similar to the water level found in the borehole as part of the soils investigation i.e. approximately 3 metres below existing ground level.
2. The site is not within 100 metres of a water course.
3. The site is not within the catchment of the pond chains on Hampstead Heath.
4. The proposed basement development will occupy approximately two thirds of the area of the proposed building but more than the existing buildings.
5. The proposed surface water will be attenuated to the same level as the existing by means of on site storage.
6. This does not apply as the site is not near a local pond or spring line.

The following are the answers to the Flow Screening Chart Figure 2 – dealing with slope stability.

1. The existing site is almost flat and does not include any slopes of 1 in 8
2. The proposed profiling of the landscape will not change the current slope
3. The development is not close to a railway cutting or any slopes steeper than 1 in 8.
4. The site is not within a hillside setting
5. London Clay is the shallowest strata on the site below the made ground.
6. There is only one tree on the adjacent site which will be retained.
7. There is a history of tree root subsidence in the area, but this will be taken into account in the structural design.
8. The site is not within 100 metres of a water course with potential spring line.
9. The site has been built on in the past and the records are included on the Architect's drawings and in the soils investigation.
10. The site is not within an aquifer. There is a possibility of finding ground water which is believed to be perched and localised pumping may be required during construction
11. The site is not within 50 metres of the Hampstead Heath Ponds
12. The site is within 5 metres of a highway as there is a pavement immediately outside the front of the building.
13. The proposed basement will significantly increase the differential depth of foundations relative to the neighbours on the right hand side..
14. The site is not over any tunnels either railway or underground.

The following are the answers to Flow Screening Chart Figure 3.

1. The site is not within the catchment area of the ponds on Hampstead Heath.
2. The surface water on the site will increase and will be attenuated into the Thames Water drains.
3. The proposed development will result in a change in the proportion of hard surfaced external areas.

4. The proposal is to collect the surface water and attenuate into the main sewer in the existing road.
5. The quality of the surface water will be similar to the existing, mainly from the roofs.

Stage 2 – Scoping - this Section deals with the points raised in Stage 1 which require further investigation

Part of this Section answers have been given as part of the Flow Screening exercise as follows.

For this Stage, information has been sought from various sources including the Camden Geological, Hydrogeological and Hydrological maps together with the sewer records.

As the site is in Zone 1 it is proposed that a Flood Risk Assessment will not be undertaken as part of the exercise due to the limited size of the development. It is concluded that the site is not prone to flooding.

Referring to the map indicating water courses near the site it is to the east of the River Fleet which is culverted.

The geology of the area indicates that the site is underlain by made ground and London Clay of a substantial thickness.

In Appendix 3, the Thames Water Sewer Records indicate that there is a combined sewer in the road immediately outside the property which will take both the foul and the rainwater.

As a result of the information obtained it was concluded that an intrusive soils investigation was required to be part of this report.

Stage 3 – Site Investigation and Study

A soils investigation has been undertaken by Chelmer Site Investigations and is included in Appendix 1.

The survey can be summarised as follows. A single borehole and two trial pits were excavated to expose the existing conditions on the boundaries and the foundations to the next door property on the right hand side.

The property on the right hand side has a shallow strip foundation consisting of mass concrete bearing on made ground. The other trial pit near the left hand boundary indicated there was made ground near the surface and mixed soil containing clay and gravel below. Again the borehole encountered mixed soils near the surface containing clays and gravels before clay was found at 2.9 metres below existing ground level.

In this instance it is considered that sufficient soils investigation work has been undertaken to conclude on the soil conditions given the size of the project.

The water that was encountered in the borehole is likely to be a perched water table, the water running on top of the clay in the gravel just above. It will be investigated further at the commencement of the site works.

At this stage no further monitoring of the ground water conditions is required due to the depth it was recorded in the soils investigation of 4.6 metres below ground on completion of the borehole.

Stage 4 – Impact Assessment

From the information gathered in the previous Stages 1 to 3, it is considered that the most applicable structural solution would be to construct the basement within a contiguous piled wall as this would make the construction simple and reduce any likelihood of damage to the building on the right hand side. The details are indicated on the attached drawings. Within the contiguous piled wall a basement slab will be constructed and reinforced concrete walls on all sides to create a basement. The ground floor will be reinforced concrete such that a concrete box has been created.

It is likely that the ground slab and walls would be formed in waterproof concrete using one of the waterproofers either Caltite or Pudlo.

For the new basement it is likely that the foul water will flow by gravity into the existing drains. It will be necessary to undertake a CCTV survey of the existing drainage prior to the works commencing so that access can be achieved into the existing foul drainage. It is concluded that the proposed drainage will adequately take care of any rainfall and runoff as it is likely to be similar to the existing.

Due to the site works it is likely that localised pumping of excavations may be required as a result of rainfall and the possibly a perched water table.

Conclusions

The following conclusions are drawn based on the investigative work undertaken to date:

- From the Soils Investigation it is concluded that this building will not impose any restrictions on the flow of ground water as the underside of the basement is approximately 300mm below the water level that was measured at the borehole.
- As far as flooding is concerned, the existing drainage should be able to cope.
- Various flood maps have been consulted and they generally indicate that the site is in the area of low flood risk therefore no flood protection precautions are required for this development.
- As a result of the use of a contiguous piled wall the likelihood of movement to the adjacent building is reduced and underpinning will not be required as the piles will be designed to take into account the vertical loads imposed by the building next door.
- Monitoring will be undertaken with target points on the building at the right hand side. Vertical movements of the wall will be measured with the limits set as follows:
 - 5mm green – OK
 - 10mm amber – review working methods
 - 15mm red – stop work.

Relative measurements will also be taken between points.

Given the properties of the clay and the information in the soils investigation settlements are likely to be of the order of 15mm to 20mm taking into account theoretical heave. Past experience indicates that this would result in Category of Damage 2 which is crack widths of less than 5mm which can easily be filled. Using the working methods proposed it is considered that this is realistic in conjunction with the proposed monitoring.

Method statements will be required for both the installation of the contiguous wall and the basement slab and retaining walls.

- It is concluded that when the basement is completed there should be no residual issues affecting the property next door or the land surrounding the building. It will be aim of the contractor to undertake the work using the safest possible techniques given the type of structure that has been selected.
- In summary it is concluded that this basement can be constructed successfully as long as the guidelines in this report are followed. It is likely that there will be no effect on the groundwater conditions below the site.



L.A. McDonald
BSc CEng MStructE MICE
Ellis and Moore Consulting Engineers Ltd.

APPENDIX 1
SITE INVESTIGATION REPORT
BY CHELMER SITE INVESTIGATIONS

Factual Report

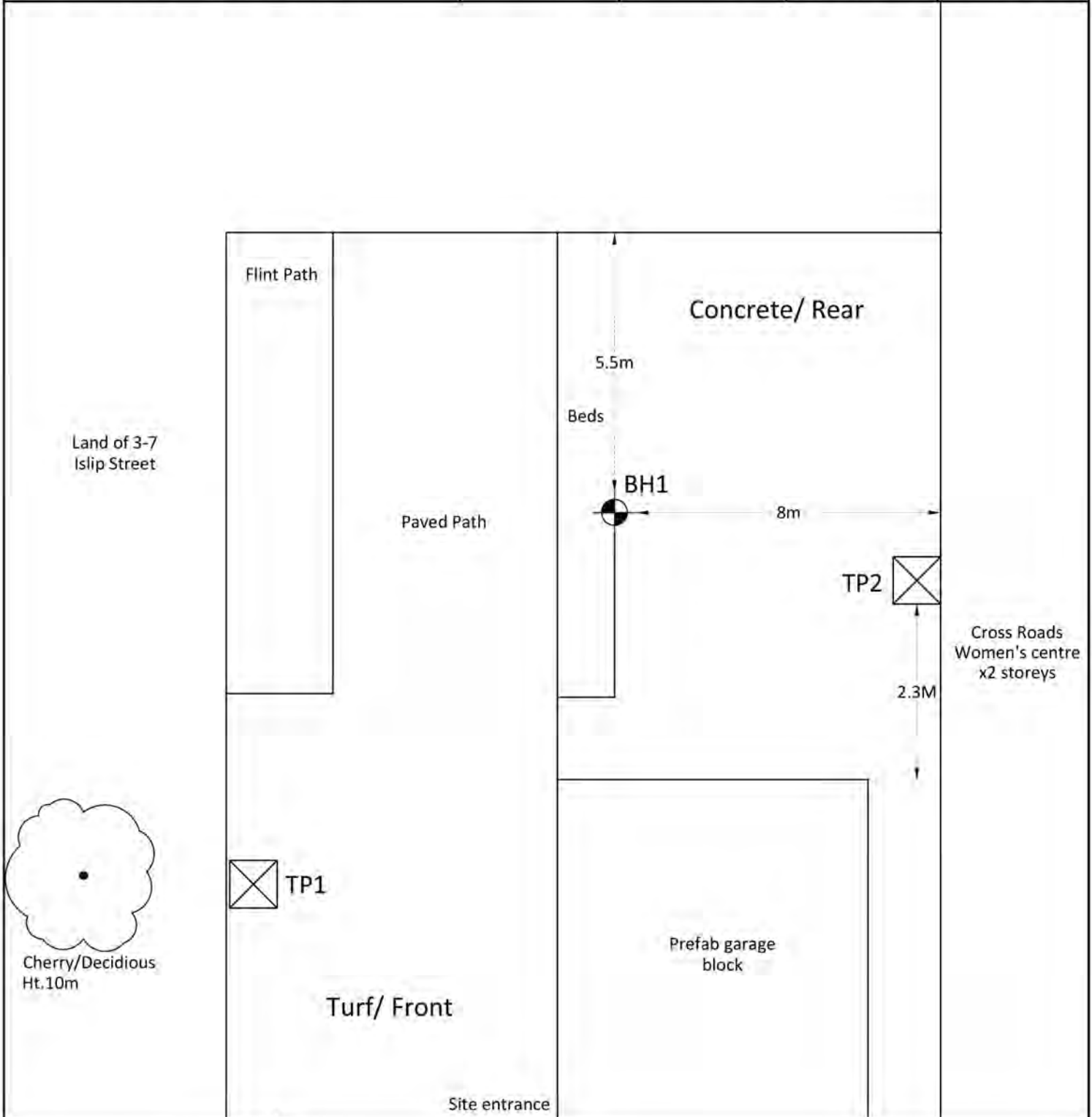


Site	Wolsey Mews, London, NW5 2DX
Client	Burd Haward Architects Ltd
Date	12 th March 2015
Our Ref	FACT/5158

Chelmer Site Investigation Laboratories Ltd

Unit 15 East Hanningfield Industrial Estate, Old Church Road, East Hanningfield, Essex CM3 8AB
Essex: 01245 400930 | London: 0203 67409136 | info@siteinvestigations.co.uk | www.siteinvestigations.com

Client: Burd Haward Architects Ltd	Scale: N.T.S.	Sheet: 1 of 1	Date: 12.03.15
Location: Wolsey Mews, London, NW5 2DX	Job No: 5158	Weather: Fine	Drawn by: MM Checked by: JH



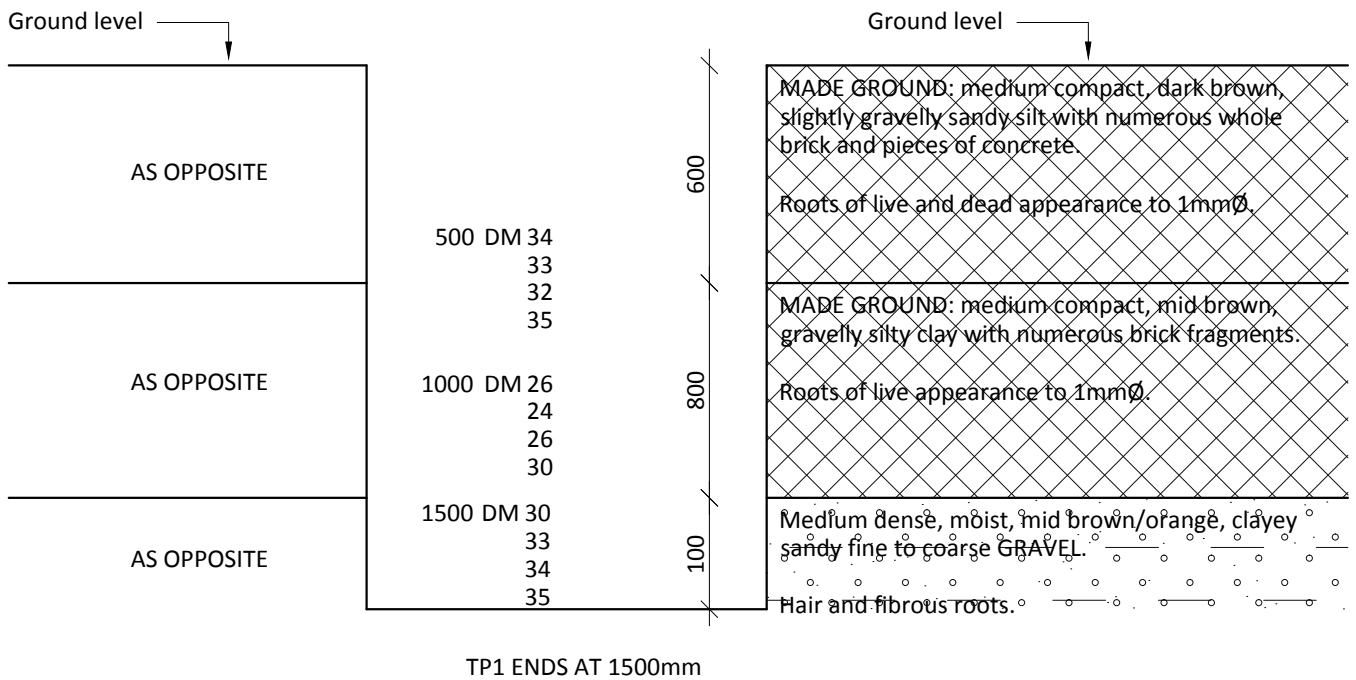
WOLSEY MEWS

Notes: On site tree identification for guidance only. Not authenticated.

Key:

Tree/Shrub	Borehole	Trial Pit	Gully	Tree Stump	Rain Water/ Soil Pipe	Manhole
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Client: Burd Haward Architects Ltd	Scale: N.T.S.	Sheet No: 1 of 1	Date: 12.03.15
Location: Wolsey Mews, London, NW5 2DX	Job No: 5158	Trial Pit No: 1	Weather: Fine
Excavation Method: Hand tools		Drawn by: MM	Checked by: JH



Remarks:

Key:

D Small disturbed sample

B Bulk disturbed sample

U Undisturbed sample (U100)

N Standard Penetration Test Blow Count

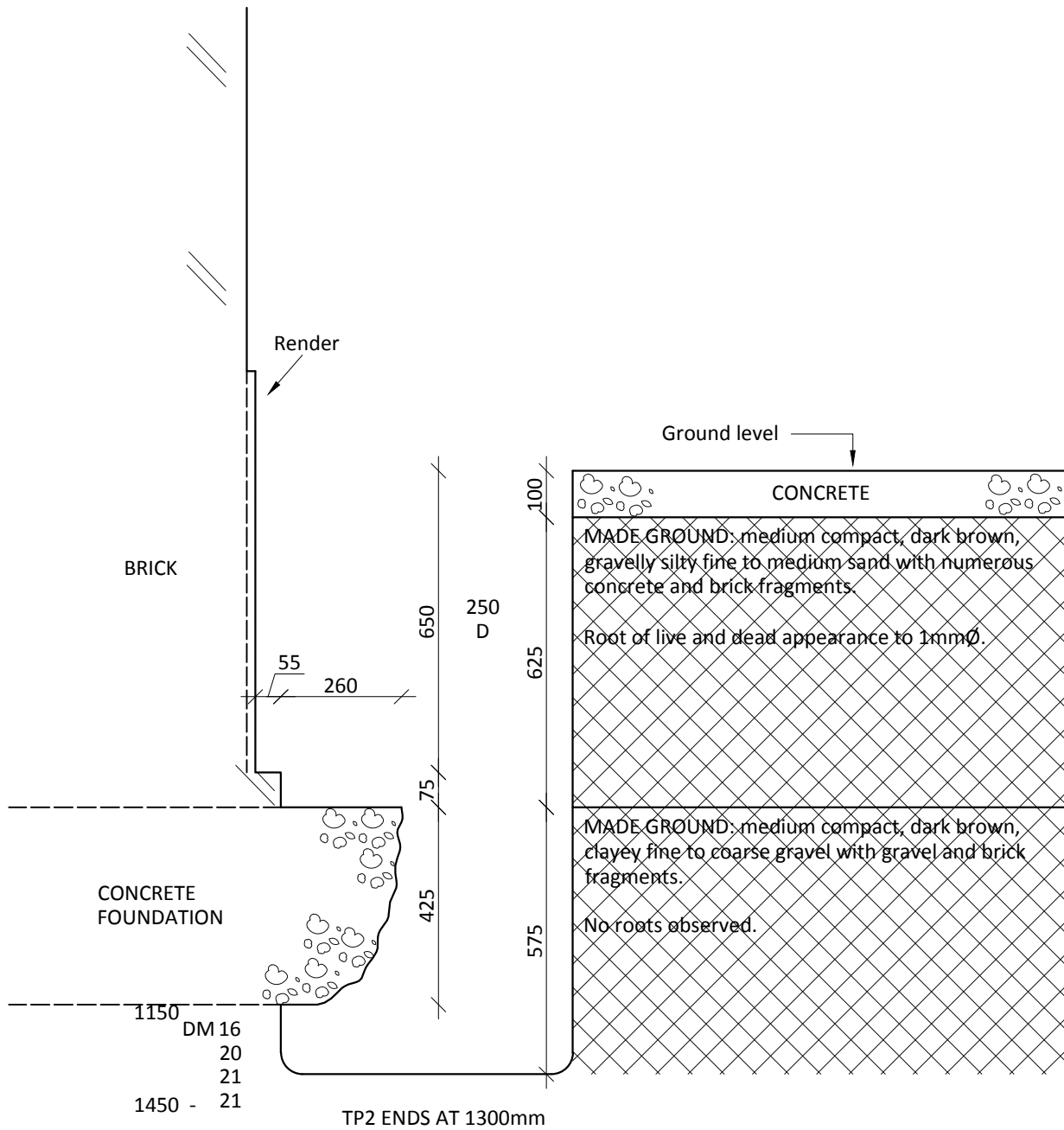
J Jar sample

V Pilcon Vane (kPa)




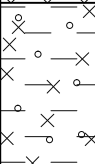
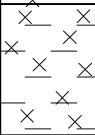

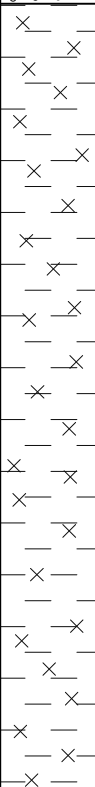
M Mackintosh Probe

W Water Sample

Client: Burd Haward Architects Ltd	Scale: N.T.S.	Sheet No: 1 of 1	Date: 12.03.15
Location: Wolsey Mews, London, NW5 2DX	Job No: 5158	Trial Pit No: 2	Weather: Fine
Excavation Method: Hand tools		Drawn by: MM	Checked by: JH



Remarks:	Key:	
	<ul style="list-style-type: none"> D Small disturbed sample B Bulk disturbed sample U Undisturbed sample (U100) N Standard Penetration Test Blow Count 	<ul style="list-style-type: none"> J Jar sample V Pilcon Vane (kPa) M Mackintosh Probe W Water Sample

Client:		Scale:		Sheet No:		Weather:		Date:	
Burd Haward Architects Ltd		N.T.S.		1 of 1		Fine		12.03.15	
Site:		Job No:		WS No:		Boring method:			
Wolsey Mews, London, NW5 2DX		5158		1		Archway			
Depth Mtrs.	Description of Strata	Thick-ness	Legend	Sample	Test Type Result	Root Information	Depth to Water	Depth Mtrs	
G.L.	TOPSOIL	0.5		↑		Roots of live appearance to 2mmØ to 0.4m.		G.L.	
0.5	MADE GROUND: medium compact to compact, dark brown silty gravelly fine to medium sand with numerous brick fragments.	0.3		U					
0.8	MADE GROUND: medium compact, mid to dark brown, gravelly silty clay with occasional brick fragments.	0.7		↓	SPT N = 12	No roots observed below 0.4m.		1.0	
1.5	Firm, mid brown, gravelly silty CLAY.	0.6		↑					
2.1	Stiff, moist, pungent, dark brown very silty CLAY.	0.6		↓	SPT N = 15		2.1	2.0	
2.7	Dense, mid brown, clayey GRAVEL.	0.2		U					
2.9	Stiff, mid brown, grey veined silty CLAY with partings of brown silt and fine sand.	3.1		↓	SPT N = 18		2.9	3.0	
				↑					
				↓	SPT N = 20		4.0		
				↑					
				↓	SPT N = 21		5.0		
6.0	WS ends at 6.0 m			↓	SPT N = 23			6.0	

Drawn by: MM

Approved by: JH

Remarks: Groundwater seepage at 2.1m.
Groundwater strike at 2.9m.
Borehole open and groundwater standing at 4.6m on completion.
Metal standpipe installed to 6.3m.

Key: T.D.T.D. Too Dense to Drive

D Small Disturbed Sample J Jar Sample

B Bulk Disturbed Sample V Pilcon Vane (kPa)

U Undisturbed Sample (U100) M Mackintosh Probe

W Water Sample N Standard Penetration Test Blow Count

**CHELMER SITE INVESTIGATION
LABORATORIES LIMITED**

FALLING HEAD PERMEABILITY TEST

Chelmer Site Investigation Laboratories
Limited
Tel : 01245 400 930
Fax : 01245 400 933

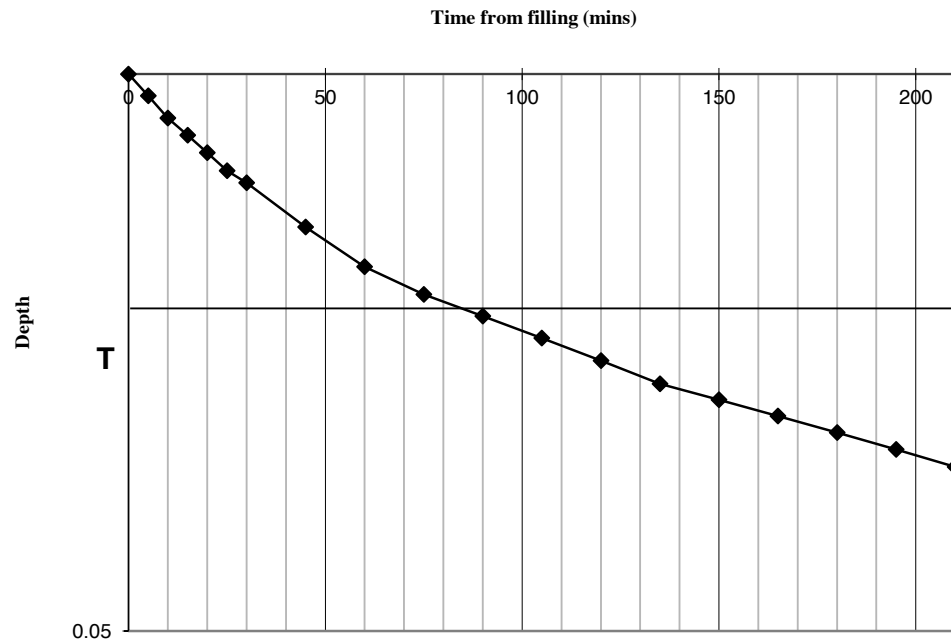
Project Name : 25 Wolsey Mews, London, NW5 2DX

SOAKAWAY TEST (TP1)

Job No. 5158

Date : 12 March 2015

Test Depth		H ₀ =	
1.35		1.50	
(m)	Time (mins)	H	H/H ₀
1.350	0	0.150	0.10
1.354	5	0.146	0.10
1.358	10	0.142	0.09
1.361	15	0.139	0.09
1.364	20	0.136	0.09
1.367	25	0.133	0.09
1.369	30	0.131	0.09
1.376	45	0.124	0.08
1.382	60	0.118	0.08
1.386	75	0.114	0.08
1.389	90	0.111	0.07
1.392	105	0.108	0.07
1.395	120	0.105	0.07
1.398	135	0.102	0.07
1.400	150	0.100	0.07
1.402	165	0.098	0.07
1.404	180	0.096	0.06
1.406	195	0.094	0.06
1.408	210	0.092	0.06



Dimension of trial pit = 0.250 (m)
 Area (A) = 0.06 (m²)
 Intake factor (F) =
 Basic Time Factor (T) =
 Permeability (k) = #DIV/0! m/sec



Laboratory Report



Site | Wolsey Mews, London,
NW5 2DX

Client | Burd Haward Architects Ltd

Date | 17-Apr-15

Our Ref | CSI5158

CGL Ref | CGL04825

Chelmer Site Investigation Laboratories Ltd

Unit 15 East Hanningfield Industrial Estate, Old Church Road, East Hanningfield, Essex CM3 8AB

Essex: 01245 400930 | London: 0203 6409136 | info@siteinvestigations.co.uk | www.siteinvestigations.com



Content Summary

This report contains all test results as indicated on the test instruction/summary.

CGL Reference : CGL04825

Client Reference : CSI5158

For the attention of : Burd Haward Architects Ltd

- This report comprises of the following :
- 1 Cover Page
 - 1 Inside Cover/Contents Page
 - 1 Page of Results
 - 1 Moisture/Shear Strength Chart
 - 1 Plasticity Chart
 - 1 Particle Size Distribution - Wet Sieving Chart
 - 1 Limitations of Report

Notes :

General

Please refer to report summary notes for details pertaining to methods undertaken and their subsequent accreditations

Samples were supplied by Chelmer Site Investigations

All tests performed in-house unless otherwise stated

Deviant Samples

Samples were received in suitable containers Yes

A date and time of sampling was provided Yes

Arrived damaged and/or denatured No

Laboratory Testing Results

BS 1377 : 1990



Job Number : CGL04825
 Client : Burd Haward Architects Ltd
 Client Reference : CSI5158
 Site Name : Wolsey Mews, London, NW5 2DX

Date Received : 10/04/2015
 Date Testing Started : 10/04/2015
 Date Testing Completed : 17/04/2015
 Laboratory Used : Chelmer Geotechnical, CM3 8AB

Sample Ref			Sample Type	*Moisture Content (%) [1]	*Soil Fraction > 0.425mm (%) [2]	*Liquid Limit (%) [3]	*Plastic Limit (%) [4]	*Plasticity Index (%) [5]	*Liquidity Index (%) [5]	*Modified Plasticity Index (%) [6]	*Soil Class [7]	Filter Paper Contact Time (h) [8]	*Soil Sample Suction (kPa)	Insitu Shear Vane Strength (kPa) [9]	Organic Content (%) [10]	*pH Value [11]	*Sulphate Content (g/l)		
BH/TP/WS	Depth (m)	UID															SO ₃ [12]	SO ₄ [13]	Class [14]
WS1	1.5	61909	D	21	<5	52	20	31	0.02	31	CH								
WS1	2.0	61910	D		<5											6.1	0.11	0.13	DS-1
WS1	2.5	61911	D	23	<5	62	24	37	-0.04	37	CH								
WS1	3.5	61913	D	32	<5	69	23	46	0.18	46	CH								
WS1	4.5	61915	D	33	<5	76	25	51	0.16	51	CV								
WS1	6.0	61918	D	34	<5	71	25	46	0.19	46	CV					7.8	1.60	1.92	DS-2

Notes :- *UKAS Accredited Tests

[1] BS 1377 : Part 2 : 1990, Test No 3.2

[2] Estimated if <5%, otherwise measured

[3] BS 1377 : Part 2 : 1990, Test No 4.4

[4] BS 1377 : Part 2 : 1990, Test No 5.3

[5] BS 1377 : Part 2 : 1990, Test No 5.4

[6] BRE Digest 240 : 1993

[7] BS 5930 : 1981 : Figure 31 - Plasticity Chart for the classification of fine soils

[8] In-house method S9a adapted from BRE IP 4/93

[9] Values of shear strength were determined in situ by Chelmer Site Investigations using a Pilcon hand vane or Geonor vane (GV).

[10] BS 1377 : Part 3 : 1990, Test No 4

[11] BS 1377 : Part 2 : 1990, Test No 9

[12] BS 1377 : Part 3 : 1990, Test No 5.6

[13] SO₄ = 1.2 x SO₃

[14] BRE Special Digest One (Concrete in Aggressive Ground) 2005

Note that if the SO₄ content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4m or DS-5m class respectively unless water soluble magnesium testing is undertaken to prove otherwise

Key

- D - Disturbed sample
- B - Bulk sample
- U - U100 (undisturbed sample)
- W - Water sample
- ENP - Essentially Non-Plastic
- U/S - Underside Foundation



Comments :-

Technician :- HS/LE/MT

Checked By :- MC

Date Checked :- 17-Apr-15

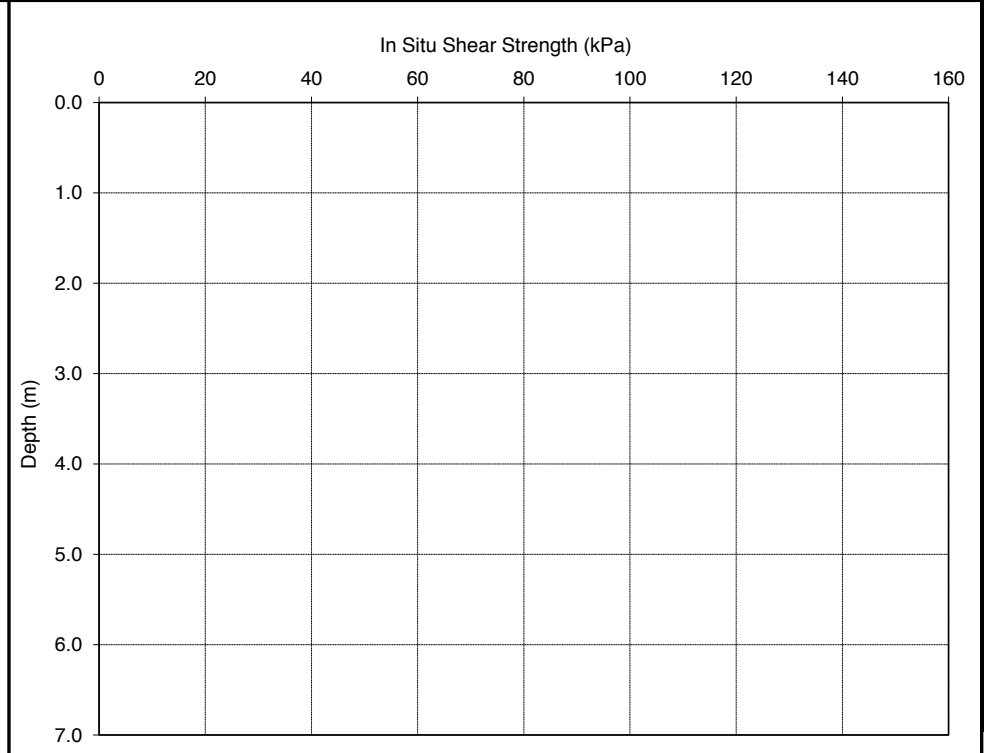
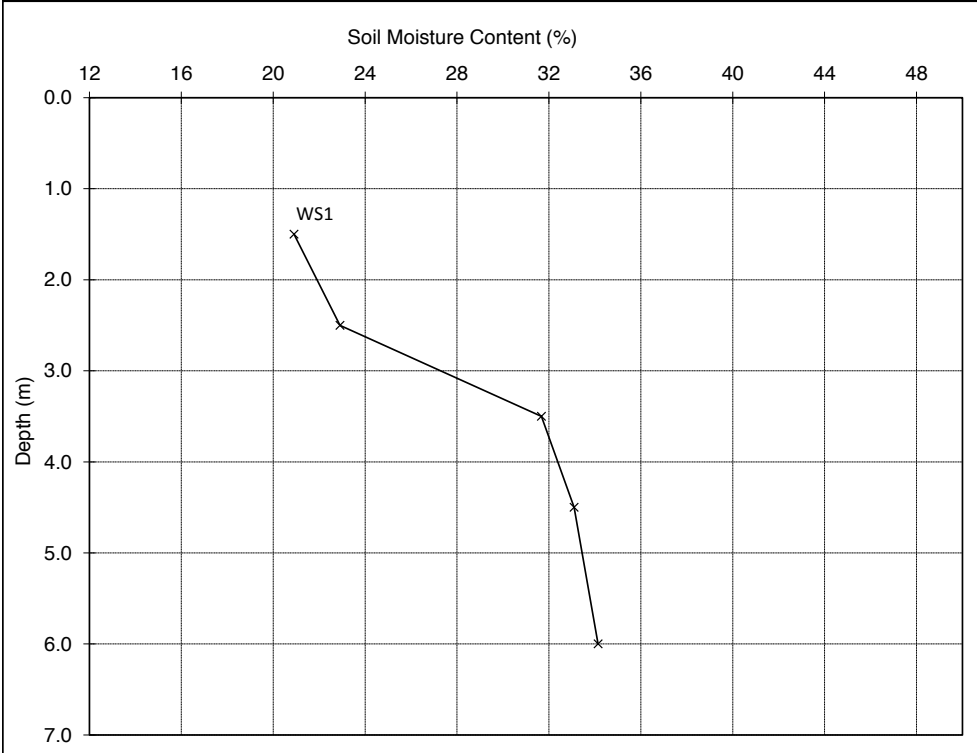
Laboratory Testing Results

Moisture Content/Shear Strength Profile



Job Number : CGL04825
 Client : Burd Haward Architects Ltd
 Client Reference : CSI5158
 Site Name : Wolsey Mews, London, NW5 2DX

Date Received : 10/04/2015
 Date Testing Started : 10/04/2015
 Date Testing Completed : 17/04/2015
 Laboratory : Chelmer Geotechnical Laboratories, CM3 8AB



Notes :-

1. If the Soil Fraction > 0.425mm exceeds 5% the Equivalent Moisture Content of the remainder (calculated in accordance with BS 1377: Part 2 : 1990, cl.3.2.4 note 1) is also plotted and the alternative profile additionally shown as an appropriately coloured broken line.
2. If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly over consolidated clays) at shallow depths.

Unless otherwise stated, values of Shear Strength were determined in situ by Chelmer Site Investigations using a Pilcon Hand Vane the calibration of which is limited to a maximum reading of 140 kPa. (Not UKAS accredited)

Comments :-



Checked By :- MC

Date Checked :- 17-Apr-15

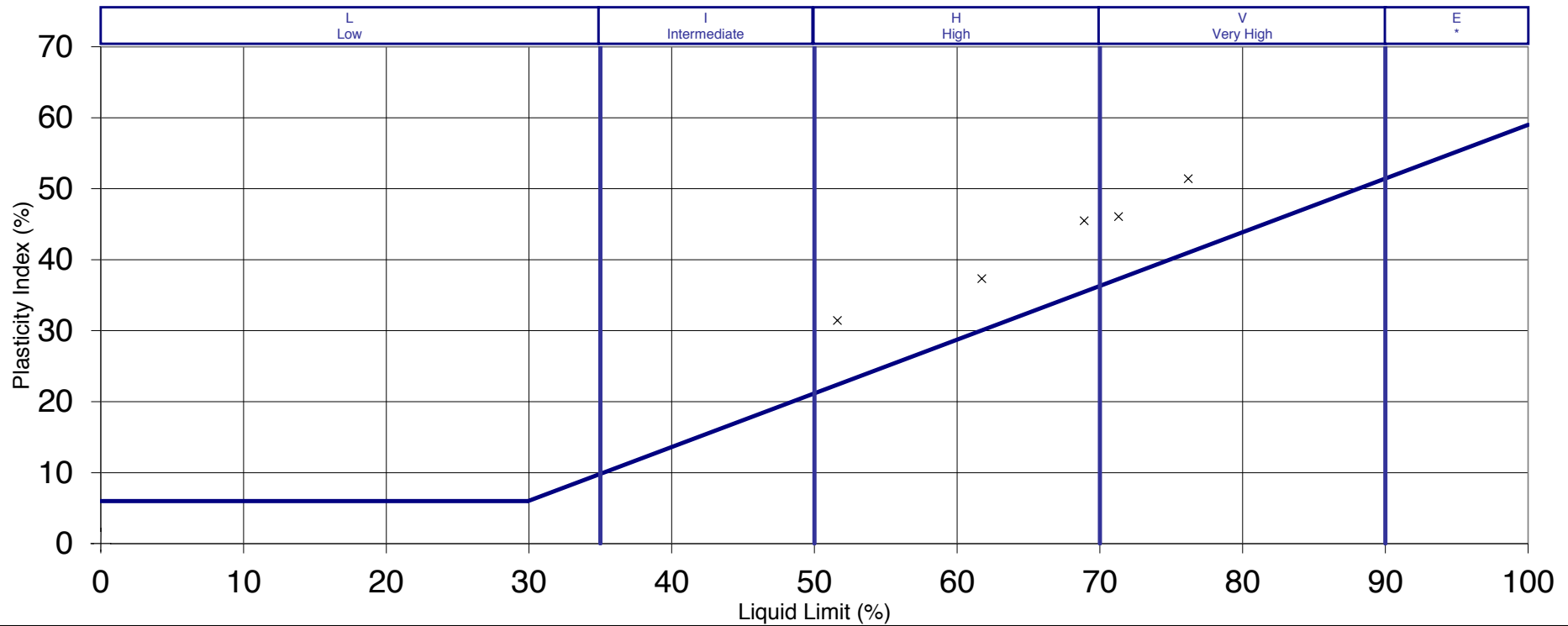
Laboratory Testing Results

Plasticity Chart for the classification of fine soils and the finer part of coarse soils
In Compliance with BS5930 : 1999



Job Number : CGL04825
Client : Burd Haward Architects Ltd
Client Reference : CSI5158
Site Name : Wolsey Mews, London, NW5 2DX

Date Received : 10/04/2015
Date Testing Started : 10/04/2015
Date Testing Completed : 17/04/2015
Laboratory : Chelmer Geotechnical Laboratories, CM3 8AB



Notes :-

SILT (M-SOIL), M, plots below A-Line
CLAY, C, plots above A-Line ;M and C may be combined as FINE SOIL, F.

Key :- WS1



Comments :-

Checked By :- MC

Date Checked :- 17-Apr-15

PARTICLE SIZE DISTRIBUTION

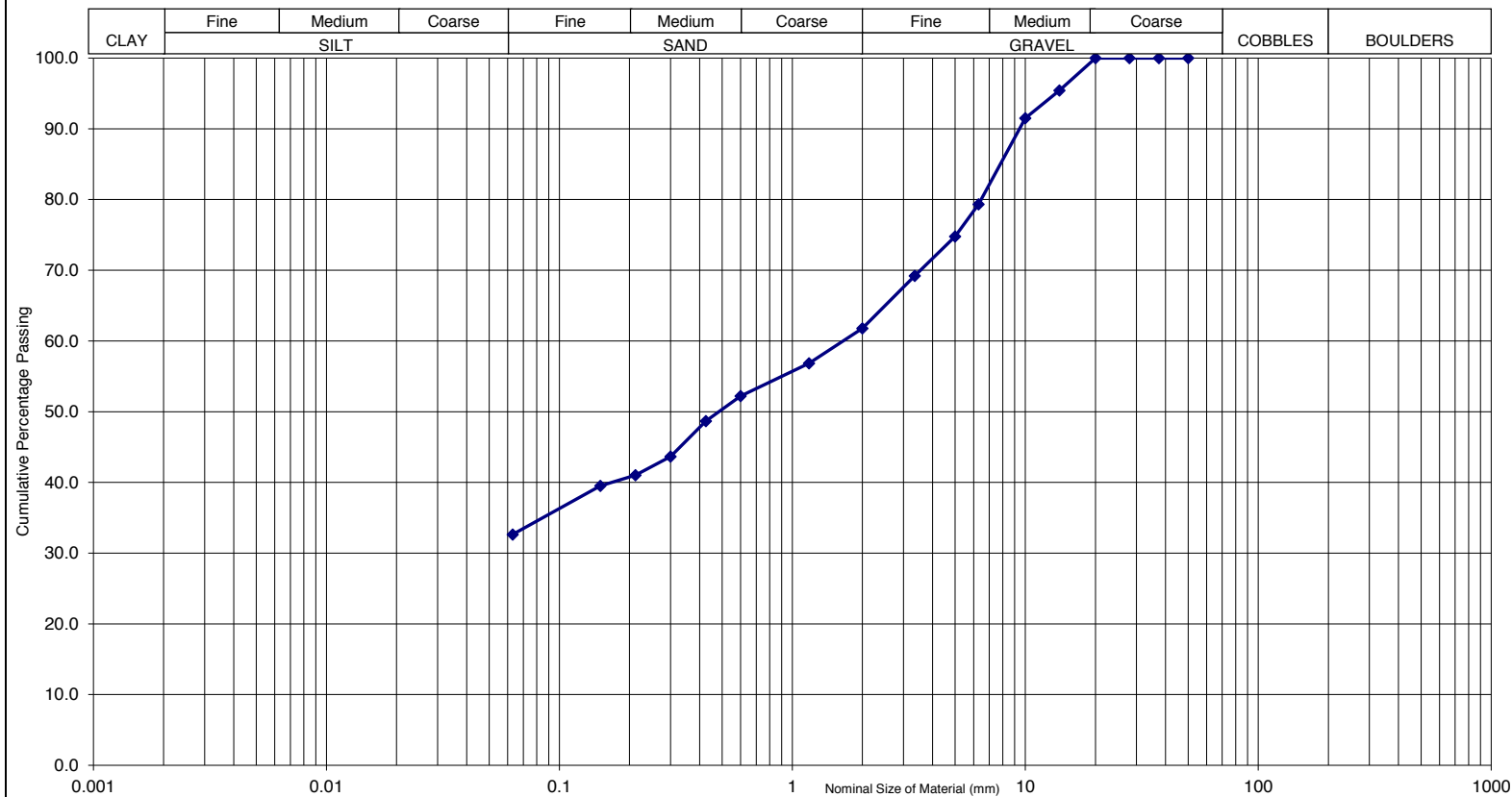
BS 1377-2:1990



Job Number : CGL04825
 Sample Number : TP1
 Depth (m) : 1.50
 Sample UID : 61904

Site Name : Wolsey Mews, London, NW5 2DX
 Soil Description : Mid brown/orange, very clayey, very sandy fine to medium GRAVEL.

Type of Sieving : Washed
 Date : 10-Apr-15
 Tested By : LE
 Laboratory : Chelmer Geotechnical CM3 8AB



Sieve Size (mm)	% Passing
90.0	100.0
75.0	100.0
63.0	100.0
50.0	100.0
37.5	100.0
28.0	100.0
20.0	100.0
14.0	95.4
10.0	91.5
6.3	79.3
5.0	74.8
3.35	69.2
2.00	61.8
1.18	56.9
0.600	52.2
0.425	48.7
0.300	43.7
0.212	41.0
0.150	39.5
0.063	32.6



Calculations :-

$$f = \frac{(M_1 - M_2) + P}{M_1} \times 100$$

$$f = 100P/M_1 \text{ (dry sieving)}$$

f = Percentage of fines passing 0.063mm
 M₁ = Mass of dried test sample before washing (kg)
 M₂ = Mass of dried residue retained on the 0.063m (kg)
 P = Mass of screened material remaining in the pan (kg)

Comments :-

Checked By :- MC

Date Checked :- 20-Apr-15



8284



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This report shall not be reproduced, except in full, without the written approval of Chelmer Site Investigations Laboratories Ltd.

Where our involvement consists exclusively of testing samples, the results and comments (if provided) relate only to the samples tested.

Any samples that are deemed to be subject to deviation will be recorded as such within the test summary.



Mark Collyer
Chelmer Site Investigation Laboratories Ltd
Unit 15
East Hanningfield Industrial Estate
Old Church Road
East Hanningfield
Essex
CM3 8AB

QTS Environmental Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410
russell.jarvis@qtsenvironmental.com

QTS Environmental Report No: 15-29832

Site Reference: Wolsey Mews, London

Project / Job Ref: CSI5158 CGL04762

Order No: PO/4050/5158/MC

Sample Receipt Date: 19/03/2015

Sample Scheduled Date: 19/03/2015

Report Issue Number: 1

Reporting Date: 25/03/2015

Authorised by:

Russell Jarvis
Director

On behalf of QTS Environmental Ltd

Authorised by:

Kevin Old
Director

On behalf of QTS Environmental Ltd



QTS Environmental Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Soil Analysis Certificate					
QTS Environmental Report No: 15-29832	Date Sampled	12/03/15	12/03/15		
Chelmer Site Investigation Laboratories Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Wolsey Mews, London	TP / BH No	61345	61347		
Project / Job Ref: CSI5158 CGL04762	Additional Refs	BH1	TP1		
Order No: PO/4050/5158/MC	Depth (m)	0.50 - 0.70	0.50		
Reporting Date: 25/03/2015	QTSE Sample No	141237	141239		

Determinand	Unit	RL	Accreditation				
pH	pH Units	N/a	MCERTS	8.8	7.5		
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2		
Total Sulphate as SO ₄	mg/kg	< 200	NONE	3341	1118		
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.14	0.11		
Elemental Sulphur	mg/kg	< 10	NONE	< 10	< 10		
Sulphide	mg/kg	< 5	NONE	< 5	< 5		
Arsenic (As)	mg/kg	< 2	MCERTS	23	10		
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	1.2	0.5		
Chromium (Cr)	mg/kg	< 2	MCERTS	41	19		
Copper (Cu)	mg/kg	< 4	MCERTS	169	46		
Lead (Pb)	mg/kg	< 3	MCERTS	1310	351		
Mercury (Hg)	mg/kg	< 1	NONE	2.1	< 1		
Nickel (Ni)	mg/kg	< 3	MCERTS	33	15		
Selenium (Se)	mg/kg	< 3	NONE	< 3	< 3		
Zinc (Zn)	mg/kg	< 3	MCERTS	1090	162		
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2		

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C
 Analysis carried out on the dried sample is corrected for the stone content
 Subcontracted analysis ⁽⁵⁾



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Soil Analysis Certificate - Speciated PAHs					
QTS Environmental Report No: 15-29832	Date Sampled	12/03/15	12/03/15		
Chelmer Site Investigation Laboratories Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Wolsey Mews, London	TP / BH No	61345	61347		
Project / Job Ref: CSI5158 CGL04762	Additional Refs	BH1	TP1		
Order No: PO/4050/5158/MC	Depth (m)	0.50 - 0.70	0.50		
Reporting Date: 25/03/2015	QTSE Sample No	141237	141239		

Determinand	Unit	RL	Accreditation				
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1		
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1		
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	0.14		
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1		
Phenanthrene	mg/kg	< 0.1	MCERTS	0.86	1.78		
Anthracene	mg/kg	< 0.1	MCERTS	0.15	0.39		
Fluoranthene	mg/kg	< 0.1	MCERTS	2.04	5.39		
Pyrene	mg/kg	< 0.1	MCERTS	1.63	4.36		
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.84	2.31		
Chrysene	mg/kg	< 0.1	MCERTS	0.79	2.09		
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.96	2.55		
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.39	1.01		
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.62	1.90		
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.48	1.42		
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	0.19		
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.36	1.03		
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	9.1	24.6		

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Soil Analysis Certificate - TPH CWG Banded					
QTS Environmental Report No: 15-29832	Date Sampled	12/03/15	12/03/15		
Chelmer Site Investigation Laboratories Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Wolsey Mews, London	TP / BH No	61345	61347		
Project / Job Ref: CSI5158 CGL04762	Additional Refs	BH1	TP1		
Order No: PO/4050/5158/MC	Depth (m)	0.50 - 0.70	0.50		
Reporting Date: 25/03/2015	QTSE Sample No	141237	141239		

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01		
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05		
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2		
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2		
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3		
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3		
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	16	< 10		
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21		
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01		
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05		
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2		
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2		
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2		
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	3	9		
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	20		
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	29		
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42		

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C



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Soil Analysis Certificate - BTEX / MTBE						
QTS Environmental Report No: 15-29832		Date Sampled		12/03/15	12/03/15	
Chelmer Site Investigation Laboratories Ltd		Time Sampled		None Supplied	None Supplied	
Site Reference: Wolsey Mews, London		TP / BH No		61345	61347	
Project / Job Ref: CSI5158 CGL04762		Additional Refs		BH1	TP1	
Order No: PO/4050/5158/MC		Depth (m)		0.50 - 0.70	0.50	
Reporting Date: 25/03/2015		QTSE Sample No		141237	141239	

Determinand	Unit	RL	Accreditation				
Benzene	ug/kg	< 2	MCERTS	< 2	< 2		
Toluene	ug/kg	< 5	MCERTS	< 5	< 5		
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2		
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2		
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2		
MTBE	ug/kg	< 5	MCERTS	< 5	< 5		

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C



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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/3																																	
QTS Environmental Report No: 15-29832	Date Sampled	12/03/15				Landfill Waste Acceptance Criteria Limits																											
Chelmer Site Investigation Laboratories Ltd	Time Sampled	None Supplied				<table border="1"> <thead> <tr> <th>Inert Waste Landfill</th> <th>Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill</th> <th>Hazardous Waste Landfill</th> </tr> </thead> <tbody> <tr> <td>3%</td> <td>5%</td> <td>6%</td> </tr> <tr> <td>--</td> <td>--</td> <td>10%</td> </tr> <tr> <td>6</td> <td>--</td> <td>--</td> </tr> <tr> <td>1</td> <td>--</td> <td>--</td> </tr> <tr> <td>500</td> <td>--</td> <td>--</td> </tr> <tr> <td>100</td> <td>--</td> <td>--</td> </tr> <tr> <td>--</td> <td>>6</td> <td>--</td> </tr> <tr> <td>--</td> <td>To be evaluated</td> <td>To be evaluated</td> </tr> </tbody> </table>	Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	3%	5%	6%	--	--	10%	6	--	--	1	--	--	500	--	--	100	--	--	--	>6	--	--	To be evaluated	To be evaluated
Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill																															
3%	5%	6%																															
--	--	10%																															
6	--	--																															
1	--	--																															
500	--	--																															
100	--	--																															
--	>6	--																															
--	To be evaluated	To be evaluated																															
Site Reference: Wolsey Mews, London	TP / BH No	61346																															
Project / Job Ref: CSI5158 CGL04762	Additional Refs	BH1																															
Order No: PO/4050/5158/MC	Depth (m)	0.70 - 1.00																															
Reporting Date: 25/03/2015	QTSE Sample No	141238																															
Determinand	Unit	MDL																															
TOC ^{MU}	%	< 0.1	1.8																														
Loss on Ignition	%	< 0.01	5.70																														
BTEX ^{MU}	mg/kg	< 0.05	< 0.05																														
Sum of PCBs	mg/kg	< 0.7	< 0.7																														
Mineral Oil ^{MU}	mg/kg	< 10	< 10																														
Total PAH ^{MU}	mg/kg	< 1.7	< 1.7																														
pH ^{MU}	pH Units	N/a	7.7																														
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	< 1																														
Eluate Analysis		2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)																											
		mg/l	mg/l		mg/kg																												
Arsenic ^U		< 0.01	< 0.01		< 0.2	0.5	2																										
Barium ^U		0.06	0.05		0.5	20	100																										
Cadmium ^U		< 0.0005	< 0.0005		< 0.02	0.04	1																										
Chromium ^U		< 0.005	< 0.005		< 0.20	0.5	10																										
Copper ^U		< 0.01	< 0.01		< 0.5	2	50																										
Mercury ^U		< 0.005	< 0.005		< 0.01	0.01	0.2																										
Molybdenum ^U		0.030	0.011		0.1	0.5	10																										
Nickel ^U		< 0.007	< 0.007		< 0.2	0.4	10																										
Lead ^U		< 0.005	< 0.005		< 0.2	0.5	10																										
Antimony ^U		0.063	0.031		0.33	0.06	0.7																										
Selenium ^U		< 0.005	< 0.005		< 0.1	0.1	0.5																										
Zinc ^U		0.011	0.008		< 0.2	4	50																										
Chloride ^U		2	1		15	800	15000																										
Fluoride ^U		0.7	0.5		5.2	10	150																										
Sulphate ^U		26	4		60	1000	20000																										
TDS		131	74		790	4000	60000																										
Phenol Index		< 0.01	< 0.01		< 0.5	1	-																										
DOC		22.9	8.3		95.9	500	800																										
Leach Test Information																																	
Sample Mass (kg)		0.21																															
Dry Matter (%)		84.4																															
Moisture (%)		18.6																															
Stage 1																																	
Volume Eluate L2 (litres)		0.32																															
Filtered Eluate VE1 (litres)		0.15																															
Results are expressed on a dry weight basis, after correction for moisture content where applicable																																	
Stated limits are for guidance only and QTS Environmental cannot be held responsible for any discrepancies with current legislation																																	
M Denotes MCERTS accredited test																																	
U Denotes ISO17025 accredited test																																	



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Soil Analysis Certificate - Sample Descriptions	
QTS Environmental Report No: 15-29832	
Chelmer Site Investigation Laboratories Ltd	
Site Reference: Wolsey Mews, London	
Project / Job Ref: CSI5158 CGL04762	
Order No: PO/4050/5158/MC	
Reporting Date: 25/03/2015	

QTSE Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
141237	61345	BH1	0.50 - 0.70	16.8	Black clay with rubble
141238	61346	BH1	0.70 - 1.00	15.6	Black clay with rubble
141239	61347	TP1	0.50	14.4	Black loamy clay with stones and vegetation

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{1/S}

Unsuitable Sample ^{U/S}



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Soil Analysis Certificate - Methodology & Miscellaneous Information
QTS Environmental Report No: 15-29832
Chelmer Site Investigation Laboratories Ltd
Site Reference: Wolsey Mews, London
Project / Job Ref: CSI5158 CGL04762
Order No: PO/4050/5158/MC
Reporting Date: 25/03/2015

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



REPORT NOTES

Equipment Used

Hand tools, Mechanical Concrete Breaker and Spade, Hand Augers, 100mm/150mm diameter Mechanical Flight Auger Rig, GEO205 Flight Auger Rig, Window Sampling Rig, and Large or Limited Access Shell & Auger Rig upon request and/or access permitting.

On Site Tests

By Pilcon Shear-Vane Tester (Kn/m^2) in clay soils, and/or Mackintosh Probe in granular soils or made ground and/or upon request Continuous Dynamic Probe Testing and Standard Penetration Testing.

Note:

Details reported in trial-pits and boreholes relate to positions investigated only as instructed by the client or engineer on the date shown.

We are therefore unable to accept any responsibility for changes in soil conditions not investigated i.e. variations due to climate, season, vegetation and varying ground water levels.

Full terms and conditions are available upon request.

APPENDIX 2
STRUCTURAL SCHEME DRAWINGS
BY
ELLIS AND MOORE CONSULTING ENGINEERS LTD.

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 planning purposes.
 All dimensions to be checked on site.

B	19.05.15	CB	BH
Stair & bin store amended			
A		CB	BH
Internal layout amended			
Revision	Date	By	Checked

Preliminary
Proposed Basement
Plan

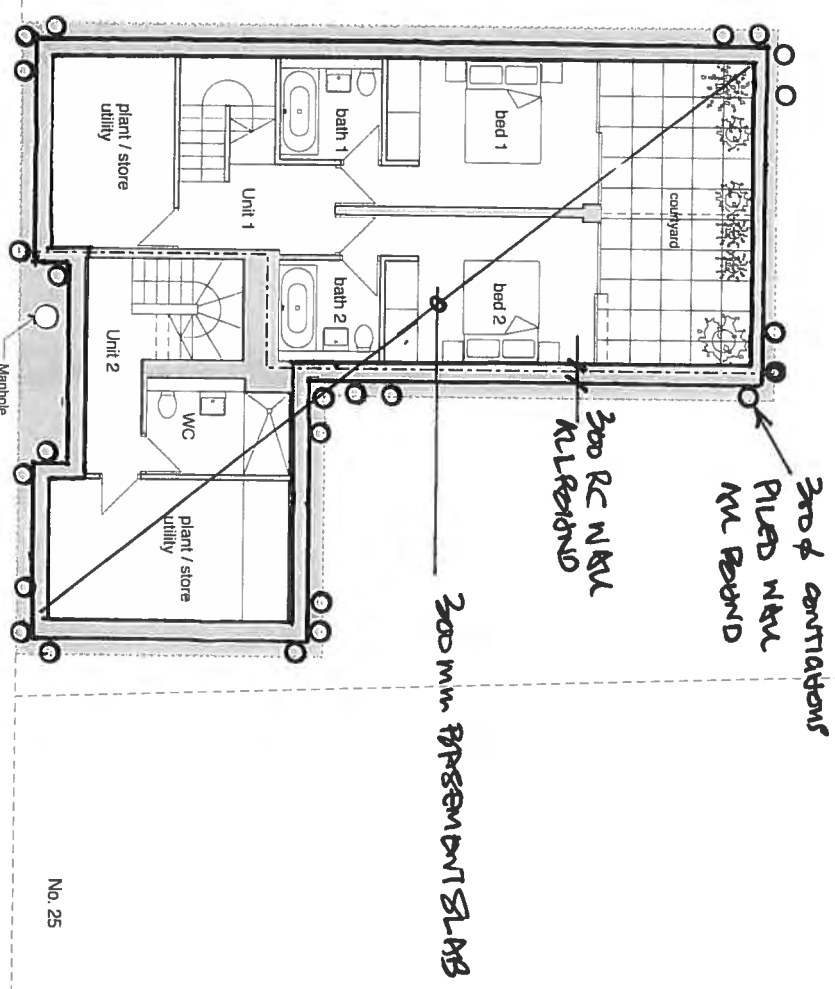
Wolsey Mews Garages
 London NW5 2DX

1590_P01B

Scale: 1:100 at A3
 Date: 24/03/15
 Drawn: BH

MARKED UP TO
INDICATE THE
STRUCTURAL
PROVISIONS
2015

BURD HAWARD ARCHITECTS
 United House, North Road
 London, N7 9DP
 T +44 20 7267 9815
 E studio@burdward.com

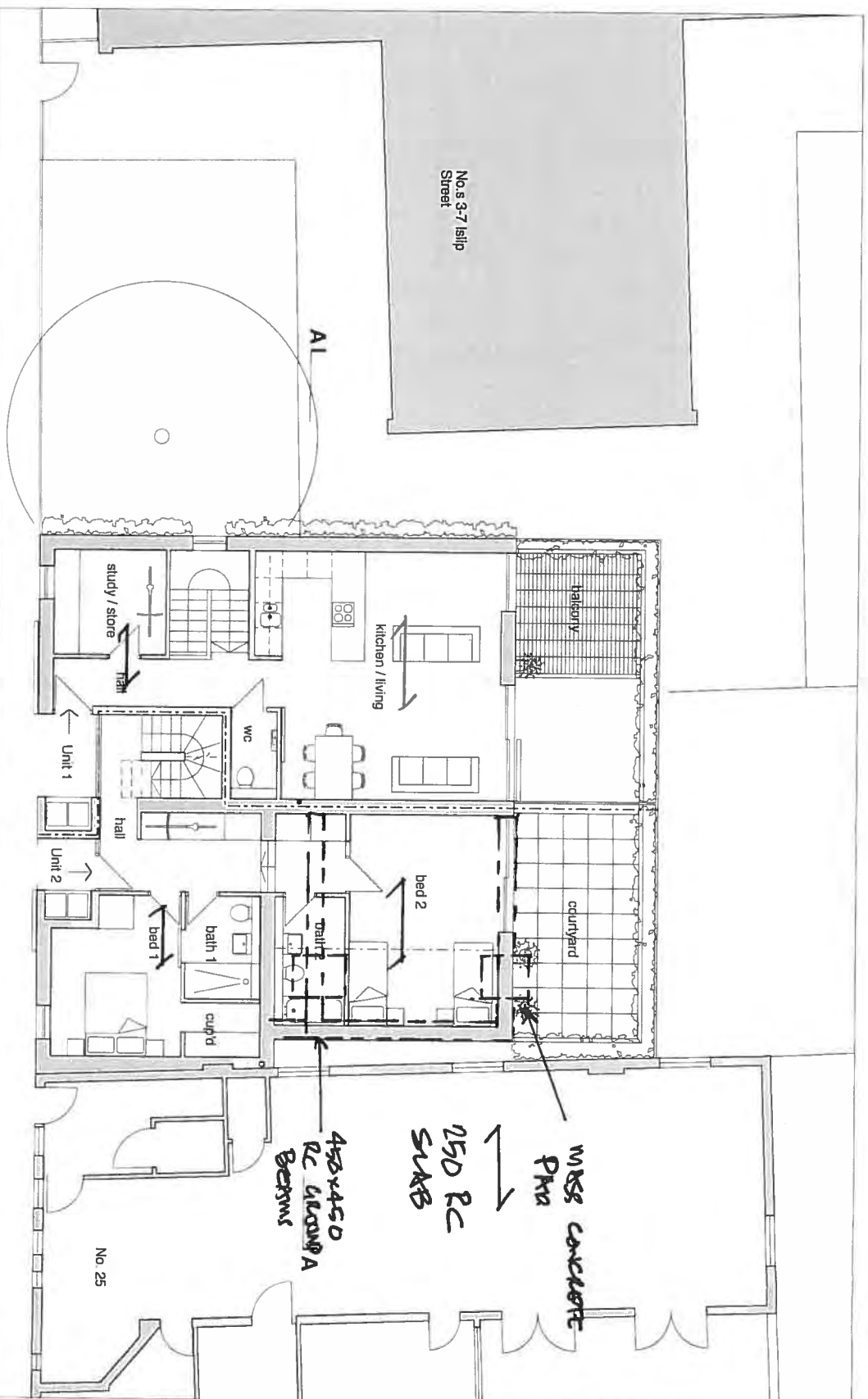


WOLSEY MEWS

No. 3-7 Islip
 Street

No. 25

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 All dimensions to be checked on site



WOLSEY MEWS

No. 1 Islip Street	No. 20	No. 19	No. 18	No.s 16-17
--------------------	--------	--------	--------	------------



MISS CARPORT
 PHA
 150 RC
 SUB
 450 RC
 SUB RC GROUP A
 BEYOND

Revision	Date	By	Checked
B	19.05.15	CB	BH
Stair & bin store amended			
A		CB	BH
Internal layout amended			

Preliminary
Proposed Ground Floor Plan

Wolsey Mews Garages
 London NW5 2DX

1590_P02B

Scale: 1:100 at A3
 Date: 24/09/15
 Drawn: BH

MARLBOROUGH TO
 INDICATE THE
 STRUCTURE
 PLACEMENT

June 2015

BURD HOWARD ARCHITECTS
 United House, North Road
 London, N7 9DP
 T +44 20 7267 9815
 E studio@burdhoward.com

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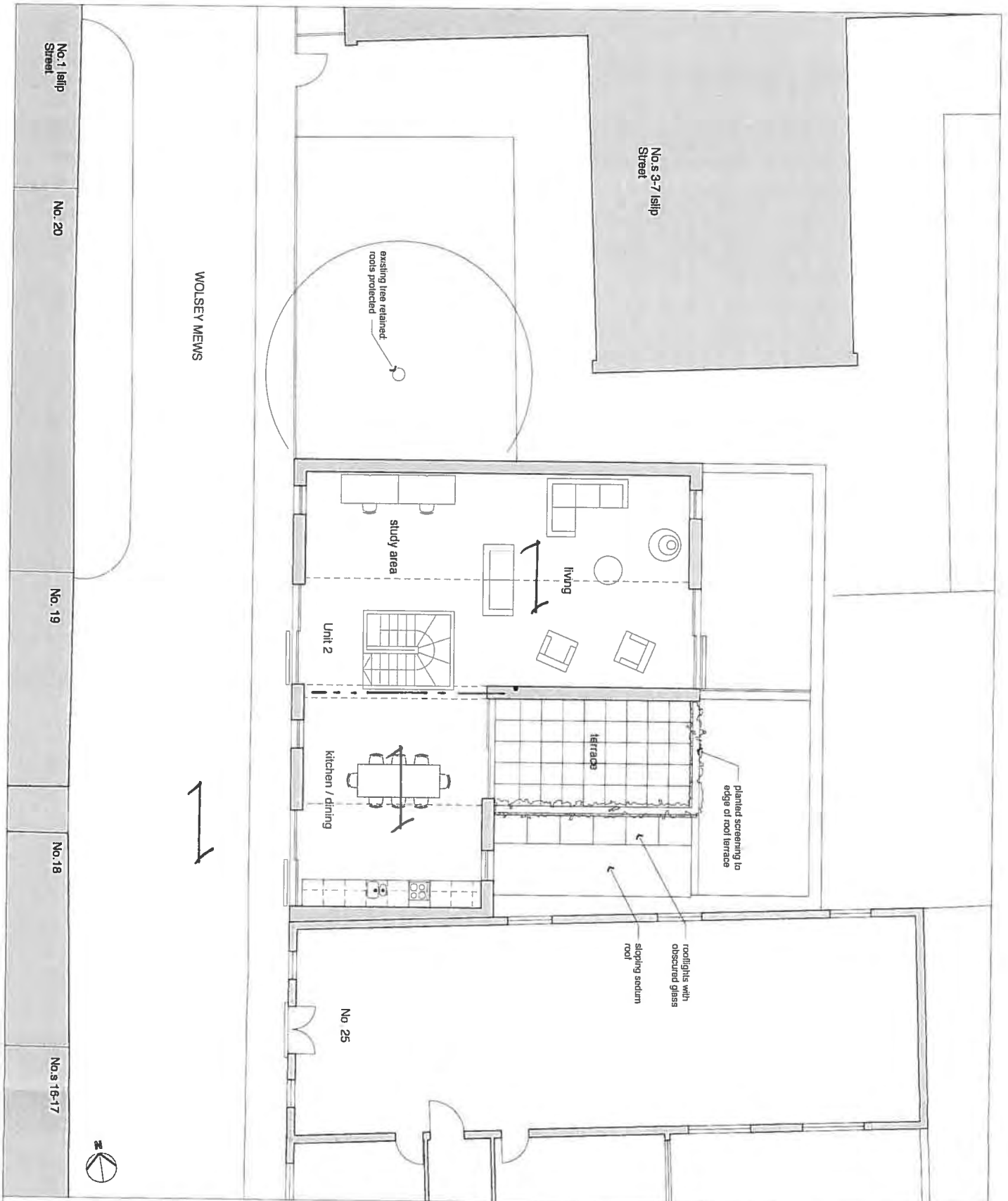
B	19 05 15	CB	BH
	Stair & bin store mandated		
A		CB	BH
	Internal layout amended		
Revision	Date	By	Checked

Preliminary
Proposed First Floor Plan
 Wolsey Mews Garages
 London NW5 2DX
1590_P03B

Scale: 1:100 at A3
 Date: 24/03/15
 Drawn: BH

MARKED UP TO INDICATE THE STRUCTURAL PROPOSALS

DRONE 2015
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 United House, North Road
 London, N7 9DP
 T +44 20 7267 9815
 E studio@burdward.com



WOLSEY MEWS

No. 1 to 3
 Street

No. 20

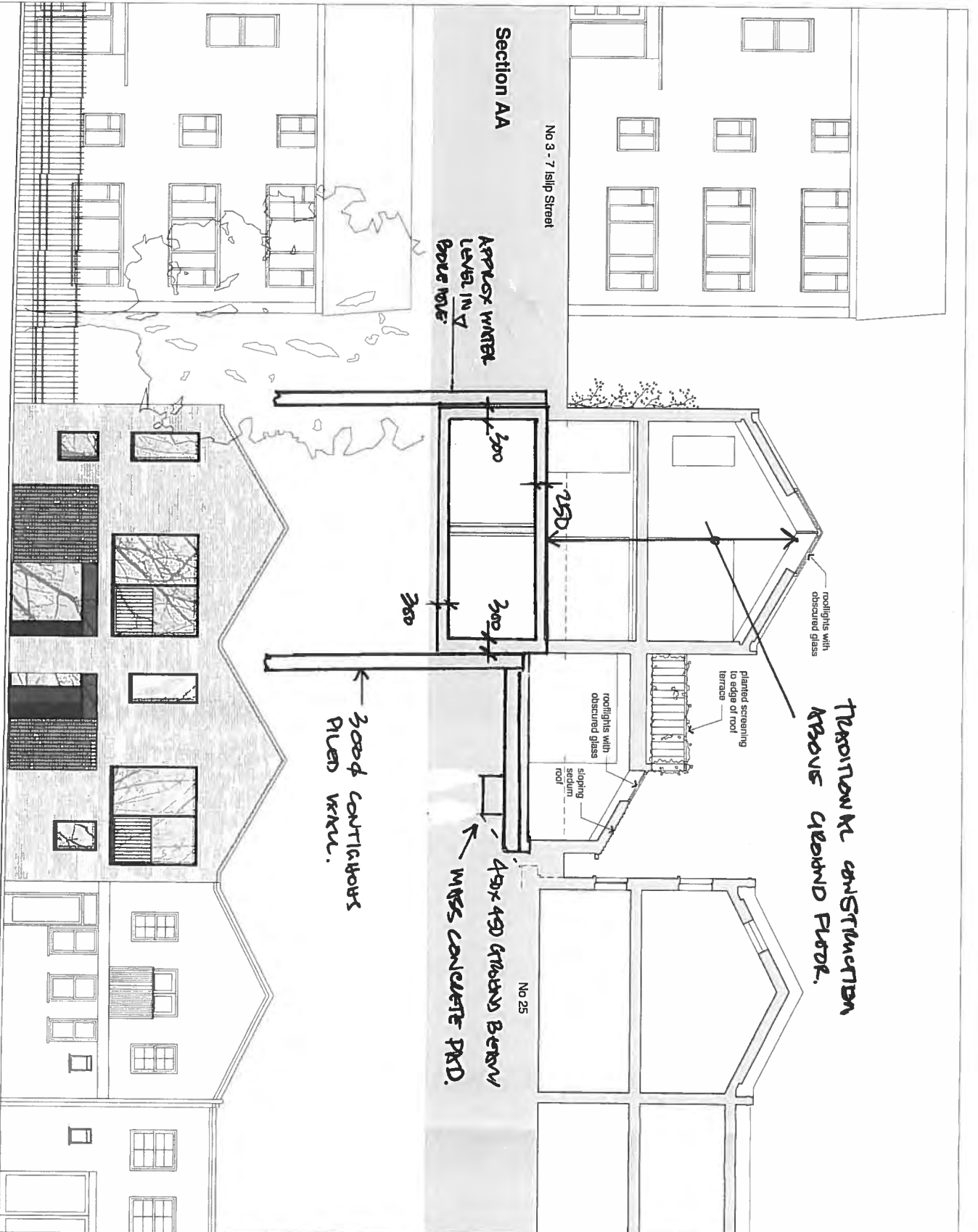
No. 19

No. 18

No. 16-17

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**TRADITIONAL CONSTRUCTION
 ABOVE CLEANED FLOOR.**



A	19.05.15	CB	BH
Elevations revised			
Revision Date	By	Checked	

Preliminary

**Proposed Section AA &
 West Elevation**
 Wolsey Mews

1590_P04A

Scale: 1:100 at A3
 Date: 24/03/15
 Drawn: BH

**MIRVED LLP TO
 INVENT THE
 STRUTURE
 PROPOSAL**

BURD HAWARD ARCHITECTS
 United House, North Road
 London, N7 9DP
 T +44 20 7267 9815
 E studio@burdward.com

West Elevation

No 3 - 7 Islip Street

No 23

No 24

No 25

15363 wol-c150622 mi-001

22 June 2015

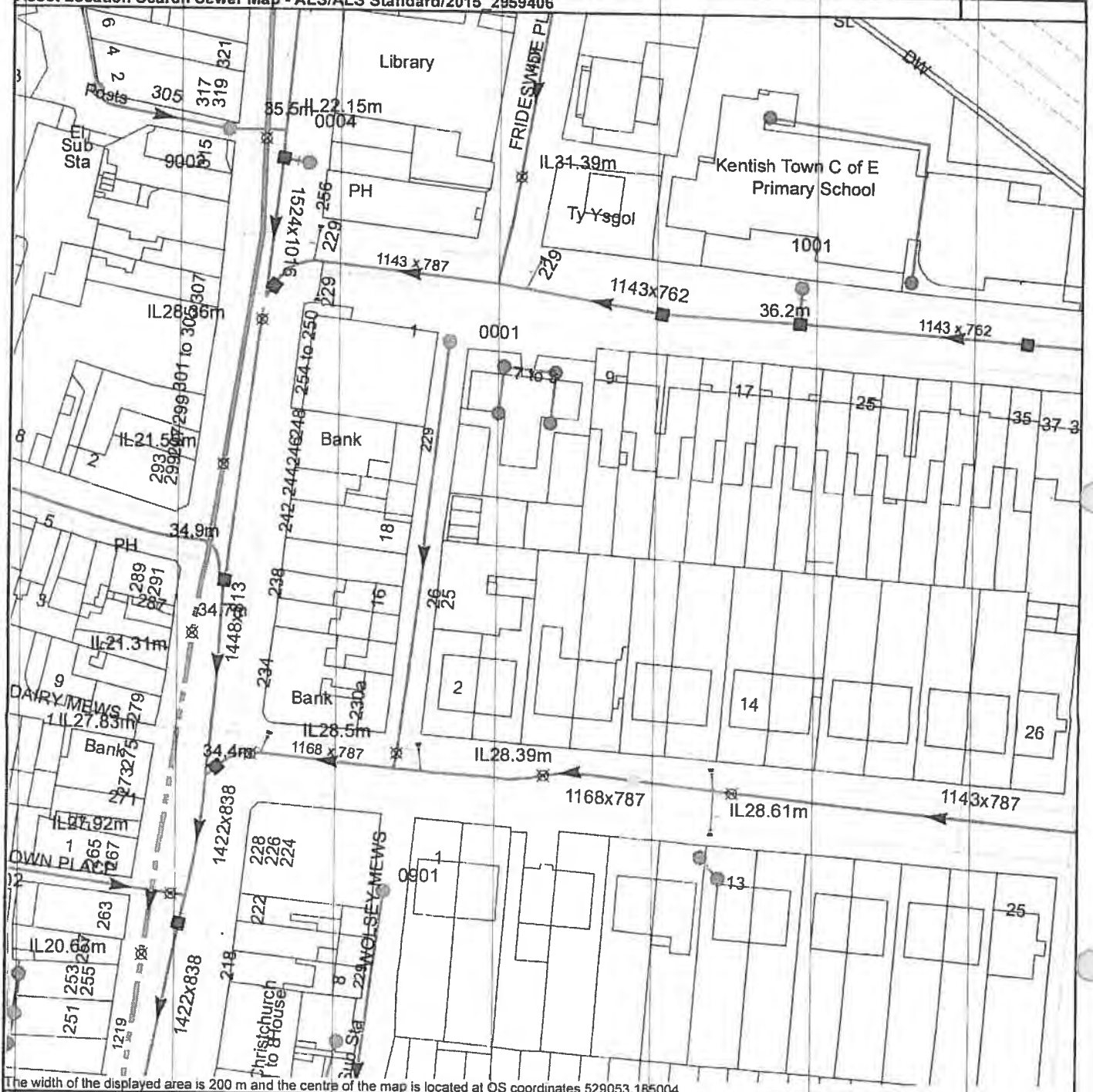
**CONSTRUCTION METHOD STATEMENT FOR WOLSEY MEWS
LONDON NW5 2DX
JUNE 2015**

1. Demolish the existing lock up garages and remove the foundations.
2. Provide a piling mat if necessary if the existing hard standing is not satisfactory
3. Install the contiguous bored pile wall to form the perimeter of the basement commencing at the rear of the site.
4. Excavate the basement using the contiguous piled wall as temporary support.
5. Allow for pumping of the potential perched water table
6. Excavate down to underside of the basement slab and install the underground drainage
7. Cast the basement slab followed by the lining walls.
8. Construct the load bearing partitions at basement level.
9. Cast the ground floor slab on shuttering.
10. Excavate the pad foundations for the section of the building which is outside the basement
11. Cast the ground beams to the single storey section and the ground floor slab
12. Install the underground drainage to connect in with the mains.
13. Continue with the superstructure above ground floor level in traditional construction



APPENDIX 3
THAMES WATER SEWER RECORDS

Asset Location Search Sewer Map - ALS/ALS Standard/2015 2959406

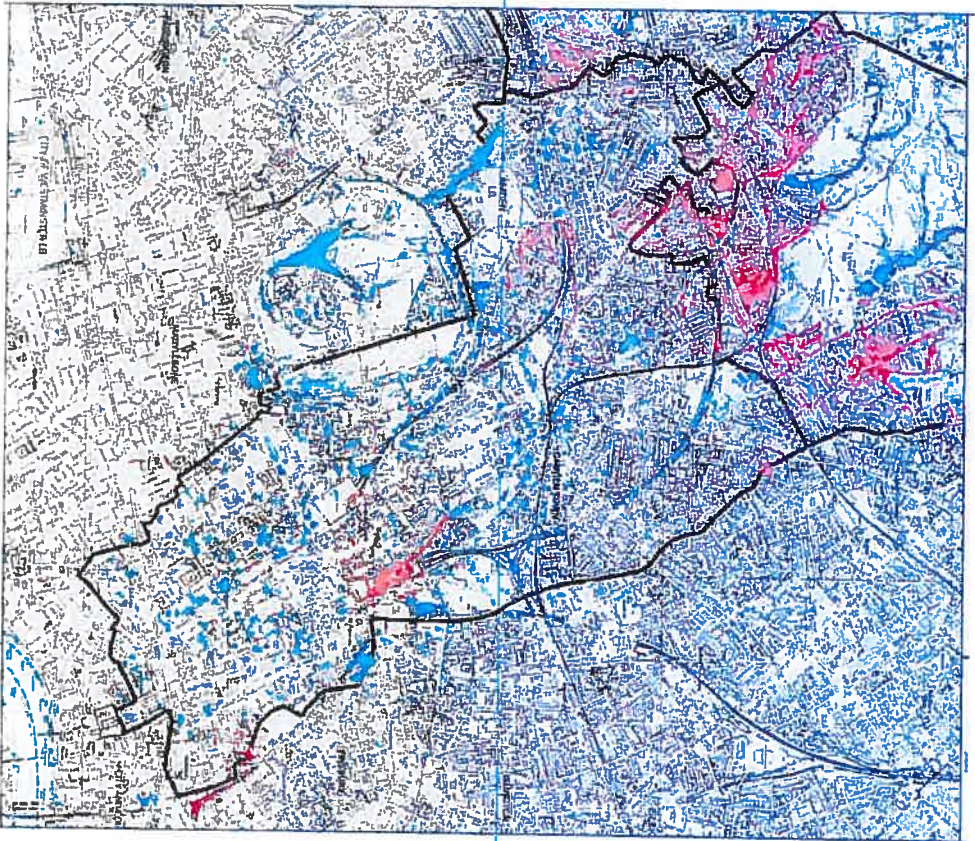


The width of the displayed area is 200 m and the centre of the map is located at OS coordinates 529053, 185004
 The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

Based on the Ordnance Survey Map with the Sanction of the controller of H.M. Stationery Office, License no. 100019345 Crown Copyright Reserved.

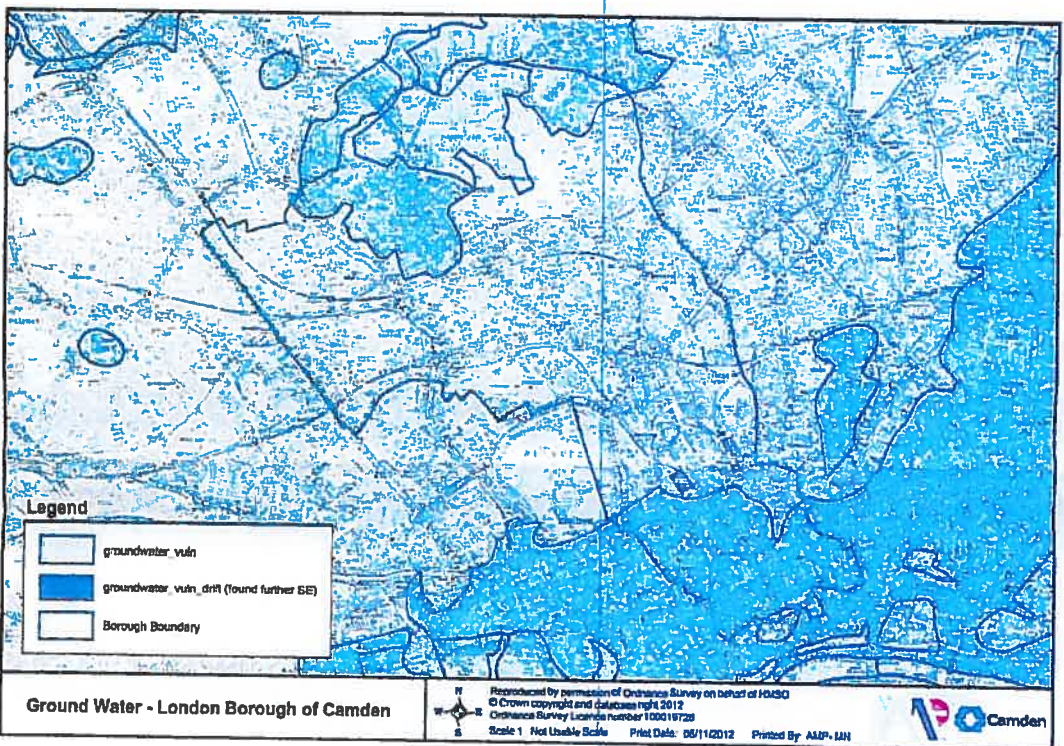
APPENDIX 4
CAMDEN GEOLOGICAL,
HYDROGEOLOGICAL AND HYDROLOGICAL MAPS

Map of surface water runoff in Camden South

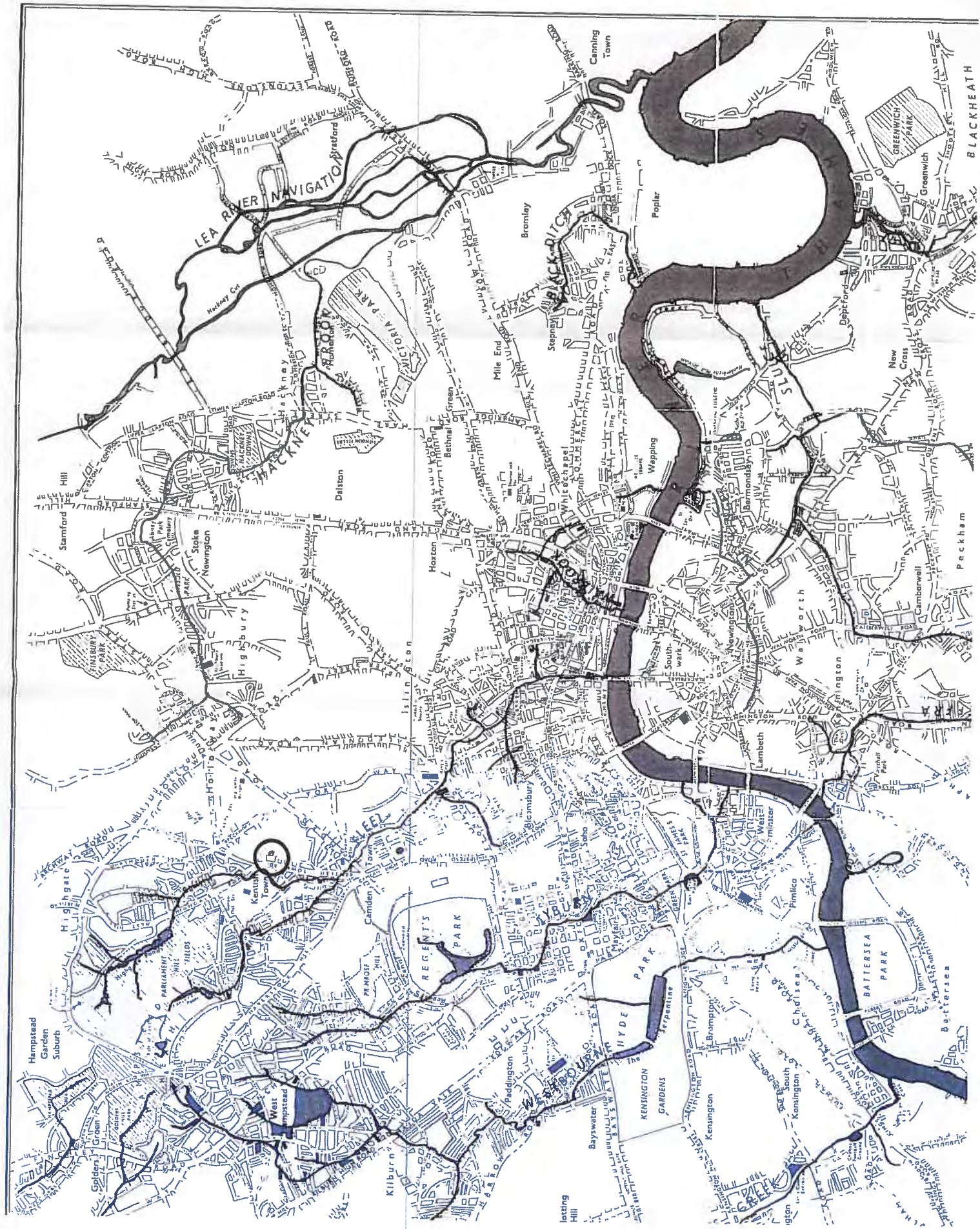


These are initial maps showing potential flows and areas of ponding for a flood event with a 1.33% chance of occurring in any one year (a 1 in 75 year return period). It is an indicative map and may be superseded by more area specific maps. It is not accurate to property level and is considered inaccurate for the King's Cross area.

4. Map of groundwater flood risk



This is an Environment Agency map showing areas believed to be especially vulnerable to groundwater flooding. Records show that groundwater is not exclusive to these areas and surveys are recommended for anyone wishing to better understand the groundwater risk in their areas.



APPENDIX 5
SITE LOCATION PLAN

Copyright Burd Haward Architects.
Unless otherwise stated,
this drawing is for information only.
Do not scale from this drawing except for
planning purposes.
All dimensions to be checked on site.

Revision Date By Checked

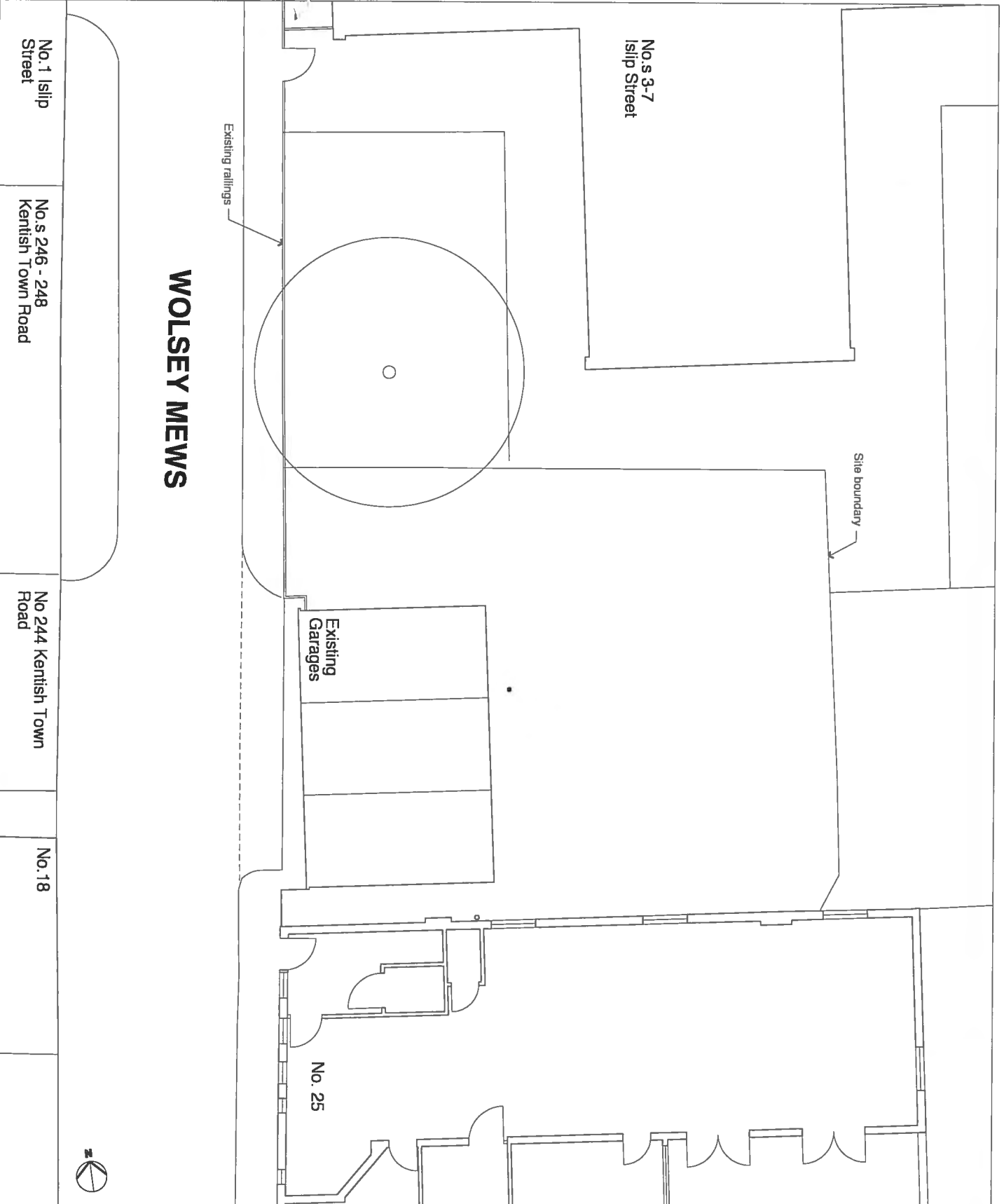
Preliminary

Existing Site Plan
Wolsey Mews

1590_E01

Scale: 1:100 at A3
Date: 24/03/15
Drawn: AM

BURD HAWARD ARCHITECTS
United House, North Road
London, N7 9DP
T +44 20 7267 9815
E studio@burdward.com



WOLSEY MEWS