



Geotechnical Survey Report

FSI Ref: 8994
Issue Date: October 2014

Client Name: Mr & Mrs Coveney
Risk Address: 11 Shirlock Road
London
NW3 2HR

Engineer: Roger Lowe

Company: GAB Robins
Claim Ref: B1426953

Director:
Office Manager:
Report Writer:

Martin Rush MSc FGS
Louise Hiscock BSc (Hons)
Perry Martin AMCIHT

Laboratory Manager:

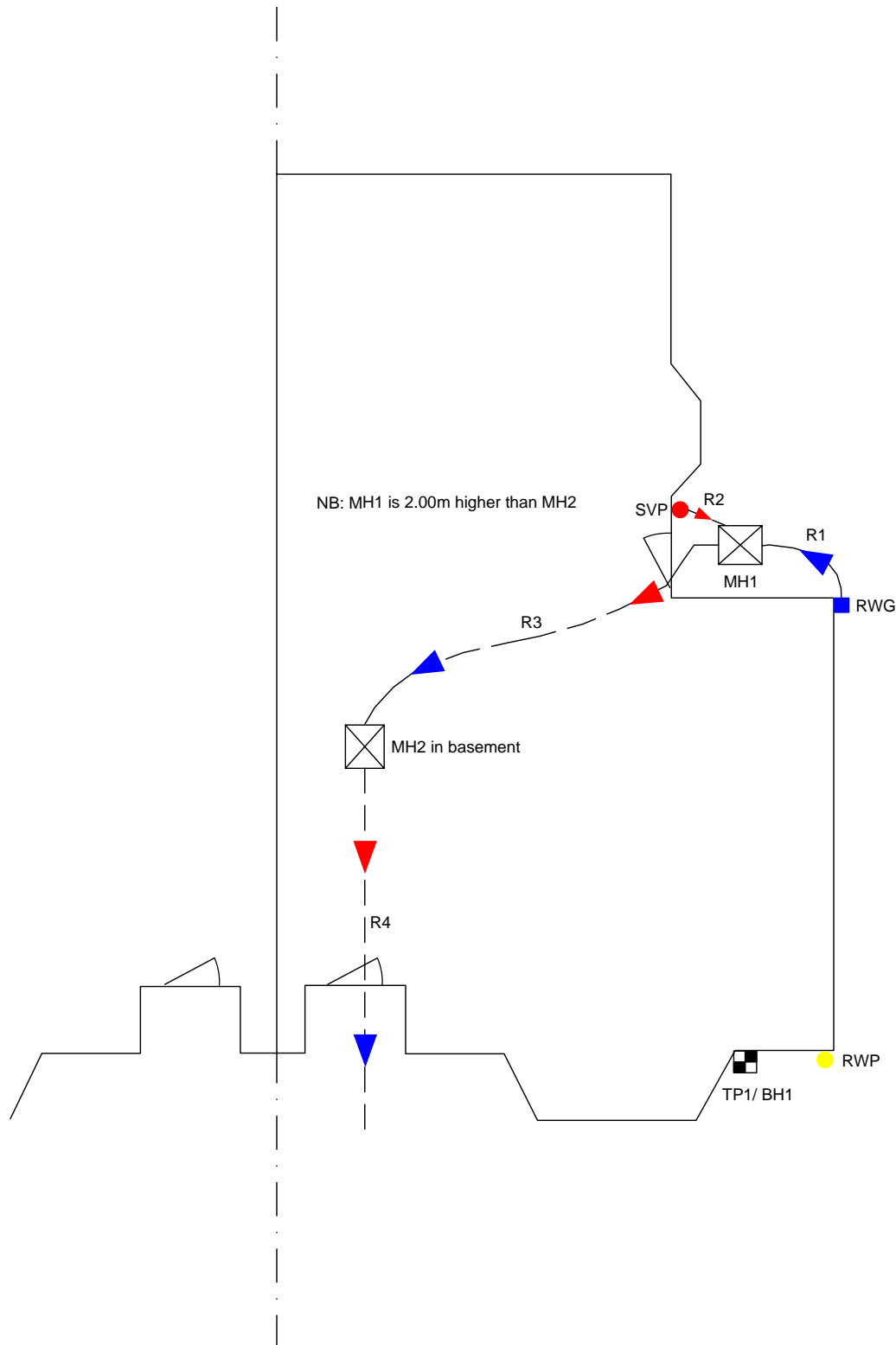
Lara Knight

SITE PLAN

Property Address: 11 Shirlock Road, London, NW3 2HR

Client Claim Ref: B1426953

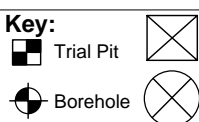
Survey date: 07/10/2014

Operative: SE1

Scale:

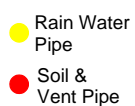
NTS

Drawn by:

PM

Key:


Manholes


Rain Water
Pipe

Soil &
Vent Pipe

Surface
Water Gully

Foul
Water Gully


Shrub

Tree
(Conifer)

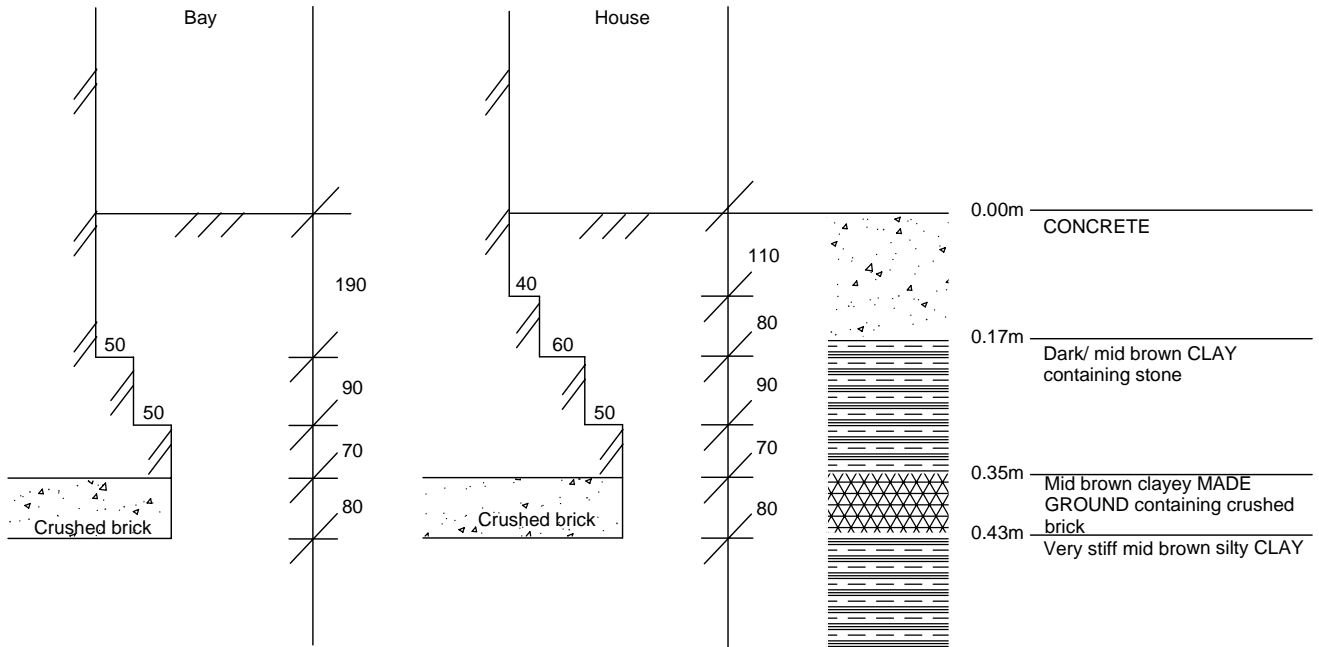
Tree
(Deciduous)

TRIAL PIT 1

Property Address: 11 Shirlock Road, London, NW3 2HR

Client Claim Ref: B1426953

Survey date: 17/10/2014

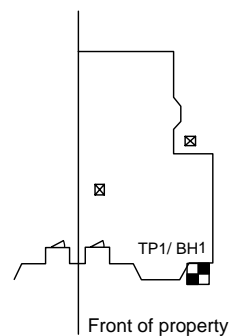
Operative: SE1


D1 @ F.L. (0.43m)

V = 140+kPa

Founding strata:

Very stiff mid brown silty CLAY

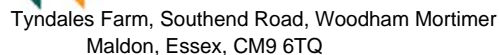
Trial Pit Location:

Drawn by:

PM

Scale:

1:10

D= small disturbed sample, B= large bulk sample, U= undisturbed sample,
MP= mackintosh probe blow counts, V= shear vane reading (kPa)



Web: www.fastrack-geotechnical.co.uk

8994

Property Address:	11 Shirlock Road, London, NW3 2HR		
Client Claim Ref:	B1426953	Survey date: 07/10/2014	Operative: SE1

Water Strikes	Samples		Insitu Tests		Depth (m)	Legend	Stratum Description and Observations
	Type	Depth (m)	Type	Results			
	D1	0.43	V	140.00	0.17	CONCRETE	FOUNDATION TOP - 0.110m (House) (Brick & crushed brick construct, 3 brick step outs projecting 40mm, 60mm & 50mm with thickness' of 80mm, 60mm & 70mm respectively onto a crushed brick footing with 80mm thickness & no projection) Dark/ mid brown CLAY containing stone FOUNDATION TOP - 0.19m (Bay) (Brick & crushed brick construct, 2 brick step outs both projecting 50mm with thickness' of 90mm & 70mm respectively onto a crushed brick footing with 80mm thickness & no projection)
					0.35	Mid brown clayey MADE GROUND containing crushed brick	
					0.43	Very stiff mid brown silty CLAY FOUNDATION LEVEL - 0.43m (Bay & House)	
	D2	1.00	V	140.00			
							Noted to contain gravel at 1.20m
					1.40		End of Borehole at 1.40 m

Remarks: Borehole closed at 1.40m due to gravel
Borehole was noted to be dry on completion
N.b. Unless otherwise stated small vane paddle used





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Appendix No: 3
FSI Ref: 8994

LABORATORY RESULTS

Property Address: 11 Sherlock Road, London, NW3 2HR
Client Claim Ref: B1426953
Client: Gab Robins

SAMPLE DETAILS	ANALYSIS REQUESTED
Investigation date: 07/10/2014	Moisture Content <input checked="" type="checkbox"/> PSD <input type="checkbox"/>
Sample details: Bags as received	Liquid Limit <input checked="" type="checkbox"/> Soil Suction <input type="checkbox"/>
Samples received: 14/10/2014	Plastic Limit <input checked="" type="checkbox"/> Shear Strength <input type="checkbox"/>
Schedule recieved: 14/10/2014	Plasticity Index <input checked="" type="checkbox"/> Contamination <input type="checkbox"/>
Samples tested: 14/10/2014 - 21/10/2014	Root ID <input checked="" type="checkbox"/> Root/Tree DNA <input type="checkbox"/>
Results reported: 21/10/2014	Other (please state) _____ <input type="checkbox"/>

TEST DETAILS

General

Sample descriptions were written in accordance with BS 5930:1999.

Samples were prepared in accordance with BS 1377: Part 1: 1990, section 7

Samples from this contract will be retained for 1 calendar month following the issue of this report unless otherwise notified

Written approval is required from Fastrack Geotechnical Services Limited to reproduce report in full. The results shown within this report only relate to the samples tested

Moisture Content

Samples were tested in accordance with BS 1377: Part 2: 1990, section 3.2 (Oven drying method)

In accordance with Note 1 to paragraph 3.2.4 of BS 1377 Part 2 1990; these moisture contents have been corrected to give the equivalent moisture content of the fraction passing the 425µm sieve, to enable comparison with the liquid & plastic limits. (If condition of test is 'natural' the retained percentage is an estimated value, if condition is 'washed' the percentage is a measured value).

Samples are dried at 105-110°C unless otherwise stated.

Atterberg Limits

Samples were tested in accordance with BS 1377: Part 2: 1990, section 4.3 (4 drop LL), 4.4 (1 drop LL), 5.3 (PL) and 5.4 (PI)

Test results on samples with a sand content, may show less accurate results. If condition of test is 'washed' results relate to the fraction passing the 425µm sieve only.

* *Driscoll's rules deem the soil to be desiccated where the moisture content is less than the value calculated using driscoll's rule 1 and/or 2*

Particle Size Distribution

Samples were tested in accordance with BS 1377: Part 2: 1990 section 9.2 (Wet sieving method)

Undrained Shear Strength

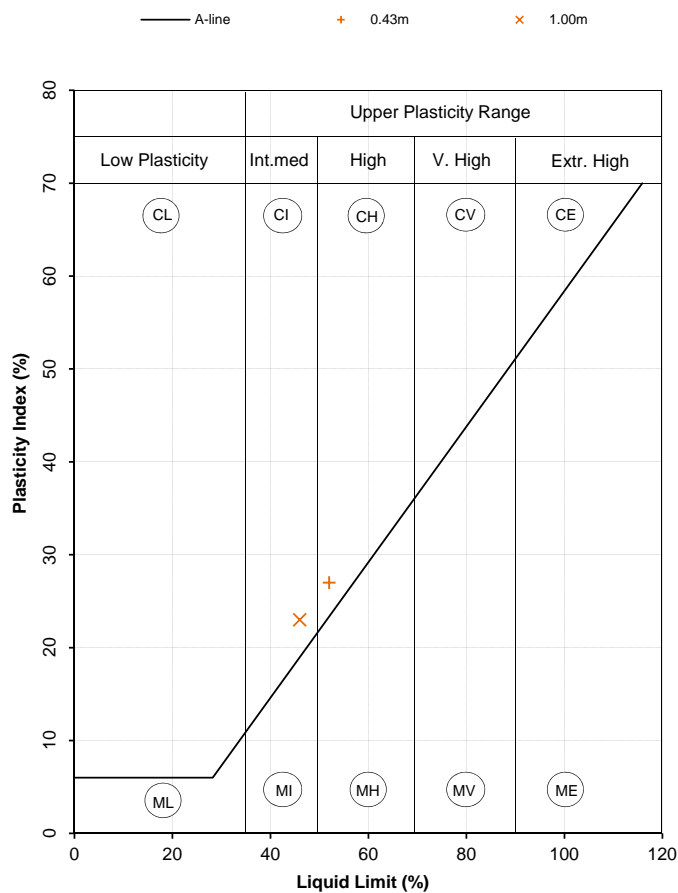
Samples were prepared in accordance with BS 1377: Part 7: 1990 section 8.3 and testing in accordance with BS 1377: Part 7: 1990: section 8.4 (undrained shear strength in triaxial compression without measurement of pore pressure (UU))

Soil Suction

Samples were prepared and tested based on the BRE digest No:IP4/93 (Corrected). 'A method of determining the state of desiccation in clay soils.' (Filter paper method).

Test results on samples with a sand or silt content, may show less accurate results. Deviation to standard procedure - Polythene bags are not used from weighing filter papers.

Property Address:	11 Shirlock Road, London, NW3 2HR
Client Claim Ref:	B1426953

[illegible]

Signed: 

Tree Root Identification Ltd

Sheet: 1 of 1

Client Ref: 5000/8994

Date: 22/10/2014

Our Ref: FT221014

Property: 11 Sherlock Road, London, NW3 2HR.

Work carried
out for: Fastrack Site Investigations Limited.

Certificate of Analysis

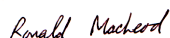
The following work was commissioned by Fastrack on behalf of their client. Root samples were obtained in sealed packets from the above site with no reference given as to the types of tree or shrub from which they may have originated.

The results were as follows -

Trial pit/ Borehole number	Root diameter (mm)	Tree, shrub or climber from which root originates	Result of starch test#
BH1 (depth: 0.43m)	<0.5	a member of the group Pomoideae*	positive
BH1 (depth: 1.00m)	1.5	a member of the group Pomoideae*	positive

The presence of starch indicates that the root was alive in the recent past.

* Tree members of the Pomoideae include apple (Malus), pear (Pyrus), hawthorn (Crataegus), rowan and whitebeam (both Sorbus). A number of shrubs also belong to this group including quince (Cydonia), Cotoneaster and Pyracantha.



DR RONALD D MACLEOD
Principal Scientist

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Accounts/Quality Manager: Fiona M. Sinclair, BA English Studies (Merit)

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Appendix No: 4
FSI Ref: 8994

DRAINAGE SURVEY

Property Address: 11 Shirlock Road, London, NW3 2HR

Client Claim Ref: B1426953

Survey date: 07/10/2014

Operative: SE1

Following your recent instruction we attended the above property and carried out a cctv camera survey and hydraulic testing of the drainage, in accordance with procedures detailed in the WRc Drain Repair Book.

Manhole / Inspection chamber Summary:

Node	Invert Level (m)	Manhole Construction	Pipe Size	Pipe Material	Manhole Condition	Type of Cover	Size of Cover
MH1	0.55m	Brick render	100mm	Clay	FAIR	Paved over	650x520mm
MH2	0.25m	Brick render	100mm	Clay	FAIR	Steel	650x520mm

Hydraulic Testing Summary:

Run	From	To	Result	Remarks
1				
2				
3				
4				
5				
6				

Serviceability:

1	Is the system failing to discharge normal household flows to the sewer system? (i.e. recurrence of blockage)	No
2	Is there evidence of leakage occurring (infiltration or exfiltration)?	No
3	Is there intermittent storm-water flooding?	Undetermined
4	Has a hydraulic leakage test failed?	N/A
5	Do observed defects make the drain unserviceable?	No

Comments:

Recommendations for Repair:

Runs	Grade	Recommended action
1 to 4	A	None required

**FASTRACK**Tyndales Farm, Southend Road, Woodham Mortimer,
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Appendix No:

4

FSI Ref:

8994

DRAINAGE SURVEY**Property Address:** 11 Shirlock Road, London, NW3 2HR**Client Claim Ref:** B1426953**Run Details: (Please refer to appendix 1 for site plan and run layout)**

Run	From	To	Pipe Diameter	Pipe Materials	Duty	Direction	Ownership
1	MH1	RWG	100mm	Clay	Storm	Upstream	Private
2	MH1	SVP	100mm	Clay	Foul	Upstream	Private
3	MH1	MH2	100mm	Clay	Foul/ storm	Downstream	Private
4	MH2	Downstream	100mm	Clay	Foul/ storm	Downstream	Private
5							
6							

Grade Guidelines:

Grade A	Condition grade A: <i>Structurally sound with no leakage evident. Slight crack/defects permitted.</i>
Grade B	Condition grade B: <i>Cracks and/or fractures observed but pipe provides sufficient arching support. Some leakage may be evident.</i>
Grade C	Condition grade C: <i>Structurally unsound with insufficient arching support. Total collapse/blockage likely in the future.</i>

Inspection Report:

Run	m	Code	Grade	Observations	Water (%)	Clock	Remarks
1	0.00	SS		Start Survey			
	1.60	LR		Line of drain deviates right			
	1.90	CN		Connection			Enters RWG
	1.90	SF	A	Finish Survey			
2	0.00	SS		Start Survey			
	0.10	LL		Line of drain deviates left			
	0.30	LU		Line of drain deviates up			Upward bend into SVP
	0.30	SF	A	Finish Survey			
3	0.00	SS		Start Survey			
	0.15	LD		Line of drain deviates down			Vertical drop (200mm approx)
	0.15	JD(S)		Joint displaced slight			
	0.35	REM		General remark			Pipe levels
	0.35	LR		Line of drain deviates right			
	0.35	LD		Line of drain deviates down			Slopes downwards
	1.40	JD(S)		Joint displaced slight			
	2.10	JD(S)		Joint displaced slight			
	3.60	MHF		Finish node: Manhole			Enters MH2
	3.60	SF	A	Finish Survey			
4	0.00	SS		Start Survey			
	8.00	SF	A	Finish Survey			Clear of property