



Geotechnical Survey Report

[REDACTED]
Issue Date: February 2023

Risk Address: 138 Haverstock Hill
London
NW3 2AY

Engineer: Bret Champion

Company: Pyle Consulting
[REDACTED]

Managing Director:
Finance Director:

Martin Rush MSc FGS
Louise Banks BSc (Hons)

Geotechnical Compliance &
Logistics Supervisor:

Perry Martin MCIHT

Laboratory Manager:

Jade McLellan

Senior Geologist:
Assistant Geologist:
Geotechnical Assistant:

Scott Parker BSc (Hons) FGS
Sarah Brand
Bradley Webb

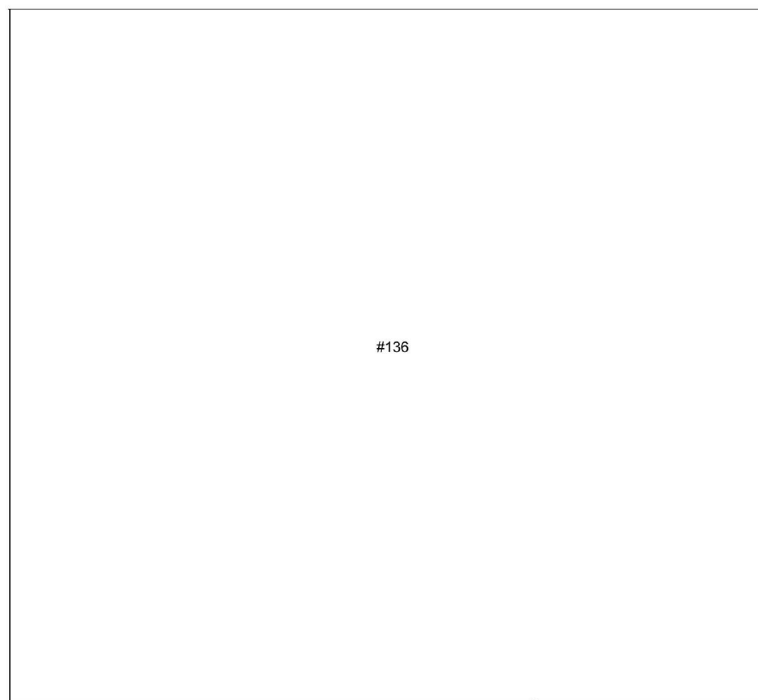
SITE PLAN

Property Address: 138 Haverstock Hill, London, NW3 2AY

Client Claim Ref: [REDACTED]

Survey date: 14/02/2023

Operative: SE2



#136

TP/BH1

BH2

Front

Scale:
NTS

Drawn by:
BW

Key:



Manholes

Rain Water Pipe
Soil & Vent Pipe

Surface Water Gully
Foul Water Gully



Shrub



Tree (Conifer)



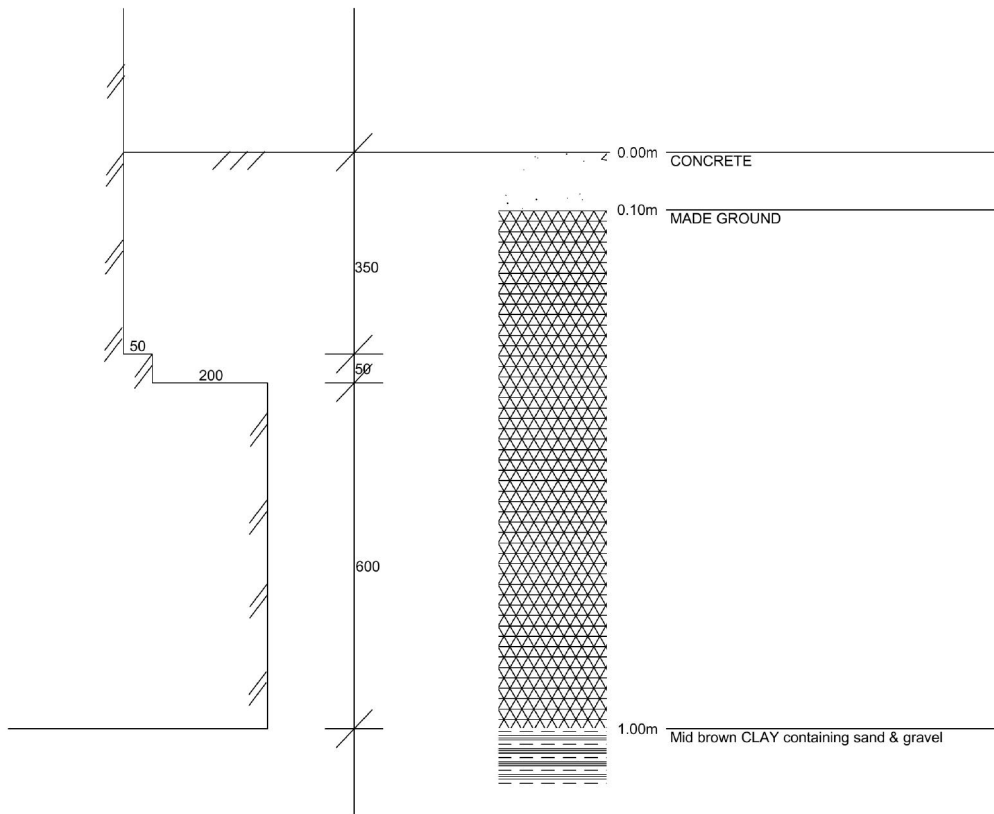
Tree (Deciduous)

TRIAL PIT 1

Property Address: 138 Haverstock Hill, London, NW3 2AY
 Client Claim Ref: [REDACTED]

Survey date: 14/02/2023

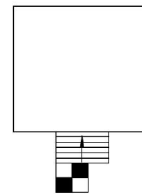
Operative: SE2



D1 @ F.L. (1.00m)
 V = 78-83kPa
 Founding strata: Mid brown CLAY containing sand & gravel

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

Trial Pit Location:



Drawn by:

BW

Scale:

1:10



Borehole Log

Borehole No.

BH1

Sheet 1 of 1

Project Name:

Project No.

Site Date: 14/02/2023

Hole Type
BH

Location:

138 Haverstock Hill, London, NW3 2AY

Scale
1:17

Client:

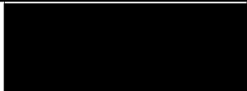
Pyle Consulting

Logged By
SE2

Water Strikes	Sample and In Situ Testing			Depth (m)	Legend	Stratum Description
	Depth (m)	Type	Results			
				0.10	CONCRETE	
					Clayey MADE GROUND	
					<i>Foundation top-0.35m (brick construct projecting 50mm and 200mm with thicknesses of 50mm and 600mm respectively)</i>	
	1.00	D	V (kPa) = 78 V (kPa) = 83	1.00	Mid brown CLAY containing sand & gravel <i>Foundation level-1.00m</i>	1
	1.50	D	V (kPa) = 85 V (kPa) = 90		<i>1-3mm roots noted at 1.50m</i>	
	2.00	D	V (kPa) = 93 V (kPa) = 98		<i>CLAY noted to contain only sand below 2.00m</i>	2
	2.50	D	V (kPa) = 102 V (kPa) = 107		<i>CLAY noted to contain sand & gravels and grey mottles by 2.50m</i>	
	3.00	D	V (kPa) = 100 V (kPa) = 105	3.00	End of Borehole at 3.000m	3

Key: D - Disturbed Sample V - Insitu Vane Test MP - Mackintosh Probe Test

Remarks: Borehole closed at 3.00m on completion.
Borehole noted to be dry on completion.



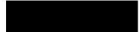
Borehole Log

Borehole No.

BH2

Sheet 1 of 1

Project Name:



Project No.



Site Date: 14/02/2023

Location:

138 Haverstock Hill, London, NW3 2AY

Client:

Pyle Consulting

Hole Type
BH

Scale
1:17

Logged By
SE2

Water Strikes	Sample and In Situ Testing			Depth (m)	Legend	Stratum Description
	Depth (m)	Type	Results			
						TOPSOIL
	0.50	D	V (kPa) = 67 V (kPa) = 72			TOPSOIL noted to contain clay and sand by 0.50m
	1.00	D	V (kPa) = 80 V (kPa) = 85	1.00		Mid brown CLAY containing sand & gravel Roots noted at 1.00m
	1.50	D	V (kPa) = 86 V (kPa) = 91			Roots noted at 1.50m
	2.00	D	V (kPa) = 92 V (kPa) = 97			CLAY noted to contain sand & gravel and grey mottles by 2.00m
	2.50	D	V (kPa) = 100 V (kPa) = 95			
	3.00	D	V (kPa) = 104 V (kPa) = 109	3.00		End of Borehole at 3.000m

Key: D - Disturbed Sample V - Insitu Vane Test MP - Mackintosh Probe Test

Remarks: Borehole closed at 3.00m on completion.
Borehole noted to be dry at completion.



LABORATORY RESULTS

Property Address: 138 Haverstock Hill, Camden, London, NW3 2AY
Client Claim Ref: [REDACTED] **Client:** Pyle Consulting

SAMPLE DETAILS		ANALYSIS REQUESTED			
Investigation date:	14/02/2023	Moisture Content	<input checked="" type="checkbox"/>	PSD	<input type="checkbox"/>
Sample details:	Bags as received	Liquid Limit	<input checked="" type="checkbox"/>	Soil Suction	<input checked="" type="checkbox"/>
Samples received:	15/02/2023	Plastic Limit	<input checked="" type="checkbox"/>	Shear Strength	<input type="checkbox"/>
Schedule recieved:	15/02/2023	Plasticity Index	<input checked="" type="checkbox"/>	Contamination	<input type="checkbox"/>
Samples tested:	20/02/2023-23/02/2023	Root ID	<input checked="" type="checkbox"/>	Root/Tree DNA	<input type="checkbox"/>
Results reported:	23/02/2023			Roots obtained	<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 Site Investigations 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).

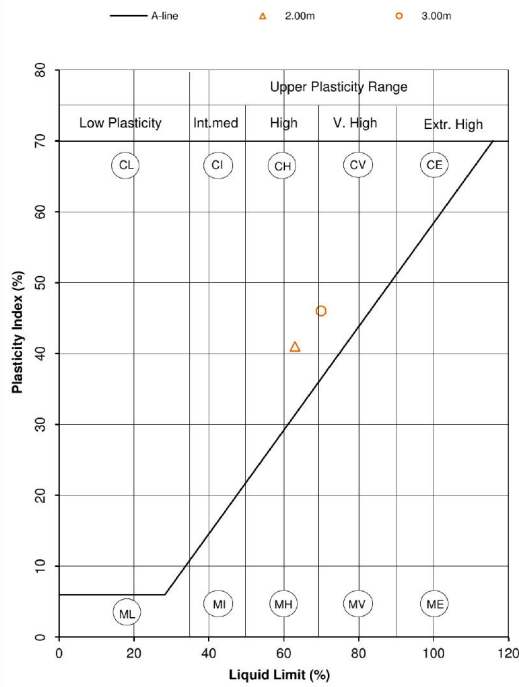
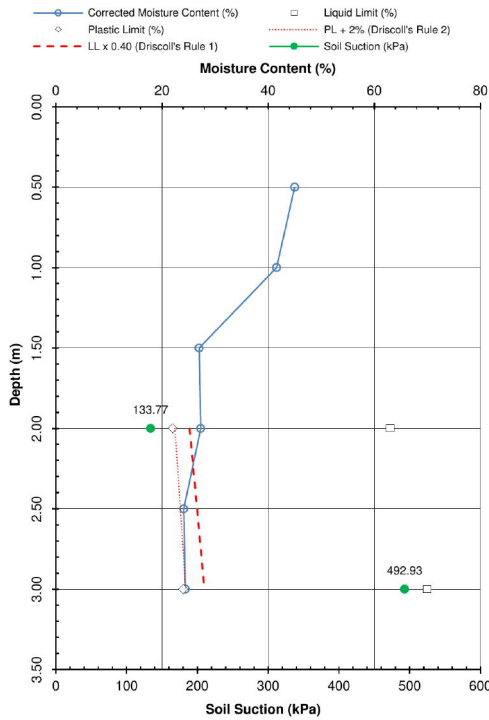
Test results on samples with a sand or silt content, may show less accurate results. Deviation to standard procedure - Polythene bags are not used from weighing filter papers.

LABORATORY RESULTS

 Property Address: 138 Haverstock Hill, Camden, London, NW3 2AY
 Client Claim Ref:

BOREHOLE 2

Depth (m)	MC (%)	Corr. MC (%)	LL (%)	PL (%)	PI (%)	Class	% Retained (425µm)	Soil Suction (kPa)	Condition of test	Soil Description
0.50	18	45					60		Natural	Brown clayey, sandy, silty MADE GROUND containing brick
1.00	20.8	41.6					50		Natural	Brown clayey, sandy, silty MADE GROUND containing brick
1.50	27	27					0		Natural	Brown silty CLAY
2.00	27.3	27.3	63	22	41	CH	0	133.77	Natural	Brown silty CLAY
2.50	24.1	24.1					0		Natural	Brown silty CLAY
3.00	24.4	24.4	70	24	46	CH/V	0	492.93	Natural	Brown silty CLAY



Comments: BH2 @ 2.00, 3.00m - Unable to perform atterberg limits and soil suctions due to incohesive soil

 Issued by: Jade McLellan (Laboratory Manager)
 Isabella Acerbis (Laboratory Supervisor)

 Ted Smith (Laboratory Technician)

Fastrack Site Investigations Ltd



Intec



ROOT IDENTIFICATION

138 Haverstock Hill,

Client Reference:



Report Date:

23 February 2023

Our Ref:



Sub Sample	Species Identified	Root Diameter	Starch
BH1:			
1.5m	<i>Pittosporum</i> spp.	3 mm	Moderate
BH2:			
1m	<i>Pittosporum</i> spp.	1.5 mm	Abundant
1.5m	Leguminosae spp.	1 mm	Abundant

Comments:

Pittosporum spp. are evergreen shrubs and small trees.

Leguminosae spp. include laburnum, *Robinia* (false acacia or locust), broom, the pagoda tree and the climber wisteria.

Signed: M D Mitchell

Unless we are otherwise instructed in writing, the above sample material will normally be disposed of 6 years after the date of this report.

