



# Geotechnical Survey Report

FSI Ref: 9984  
Issue Date: June 2016

Client Name: Abigail Katovsky  
Address: 11 Glenilla Road  
London  
NW3 4AJ

Director:  
Office Manager:  
CAD Technician:

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

Laboratory Manager:

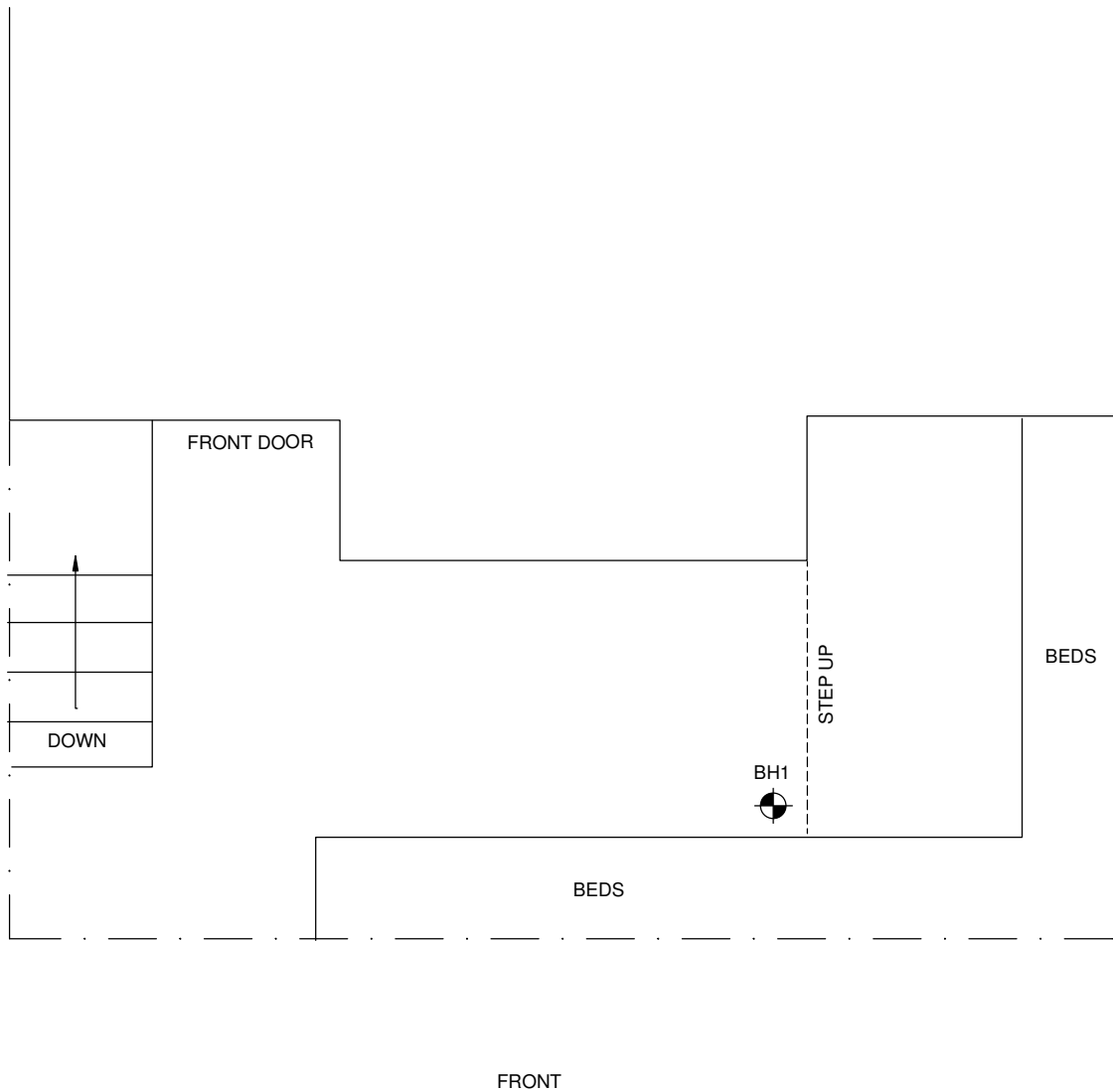
Lara Knight







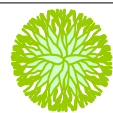



## SITE PLAN

**Property Address:** 11 Glenilla Road, London, NW3 4AJ

**Client Claim Ref:** 11 Glenilla Road

**Survey date:** 30/06/2016

**Operative:** SE1


<b>Scale:</b>	<b>Drawn by:</b>	<b>Key:</b>							
NTS	LK	 Trial Pit	 Manholes	 Rain Water Pipe	 Surface Water Gully	 Shrub	 Tree (Conifer)	 Tree (Deciduous)	
		 Borehole	 Soil & Vent Pipe	 Foul Water Gully					

## BOREHOLE LOG

**Property Address:** 11 Glenilla Road, London, NW3 4AJ  
**Client Claim Ref:** 11 Glenilla Road      **Survey date:** 30/06/2016      **Operative:** SE2

**Borehole ID:** BH1      **Hole Type:** HA      **Scale:** 1:30

Water Strikes	Samples		Insitu Tests		Depth (m)	Legend	Stratum Description and Observations
	Type	Depth (m)	Type	Results			
					0.04		Concrete
					0.45		Dark brown sandy clayey MADE GROUND containing brick and gravel
		1.00	V	58.00 56.00			Orange brown reworked silty CLAY
							Noted to contain brick pieces
					1.60		Noted to contain ash and clinker from 1.50m
		2.00	V	62.00 68.00			Orange brown silty CLAY containing grey mottle
							Noted to contain gypsum from 3.00m
		3.00	V	80.00 80.00			Noted to contain small sand pockets from 3.80m
		4.00	V	120.00 116.00			
		5.00	V	122.00 130.00	5.00		End of Borehole at 5.00m. Standpipe installed to 5.00m depth

**Key:** Water Strike    D Disturbed Sample    V Insitu vane test    MP Mackintosh Probe Test

Remarks: Borehole was closed at 5.00m as requested. Borehole was noted to be dry on completion.

N.b. Unless otherwise stated small vane paddle used



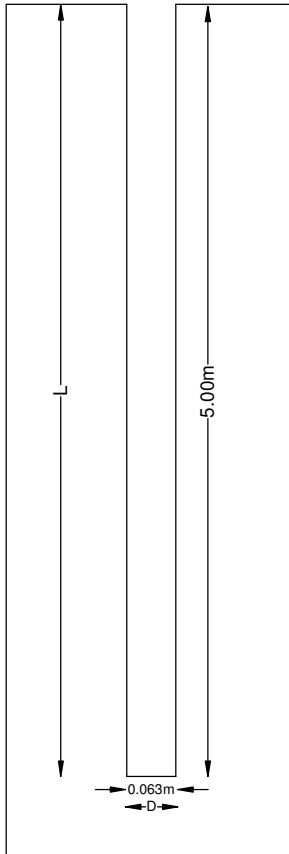
## Variable Head Test

**Property Address:** 11 Glenilla Road, London, NW3 4AJ

**Survey date:** 30/06/2016

**Operative:** SE2

Borehole Information



$$\text{Permeability (k)} = A/FT = 0.0031 / (0.17325 \times 191) = \underline{\underline{\text{unable to calculate}}}$$

$$A = \text{Cross sectional area of BH} = 0.0031 \text{ m}^2$$

$$F = \text{Intake Factor} = 0.17325$$

$$T = \text{Basic Time Factor when } H/H^0 = 0.37 = \text{Unable to calculate}$$







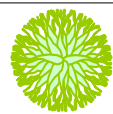



$$H^0 = \text{Head at start of test}$$

$$H = \text{Head at any time t}$$

$$F = 2.75 \times D$$

20mm DROP IN WATER LEVEL AFTER 30 MINUTES

Falling Head Permeability Tests were carried out within borehole 1 at depths of 5.00m below existing ground level. The permeability tests undertaken at this site were falling head tests undertaken in accordance with B.S. 5930:1999 Part 25.4.3 Variable Head Test.

<b>Scale:</b>	<b>Drawn by:</b>	<b>Key:</b>	 Trial Pit	 Manholes	 Rain Water Pipe	 Surface Water Gully	 Shrub	 Tree (Conifer)	 Tree (Deciduous)
NTS	LK	 Borehole	 Soil & Vent Pipe	 Foul Water Gully					