YEX4848
30-32 Chester Road – HA6 1BQ
December 22

Dear Mr Rhemtulla,

Please find below the results of your Infiltration testing. The information contained below is a summary of the site works carried out on 15th November 2022.

Geology

An examination of the available British Geological Survey data of the area for the site has been examined and indicates that the site has no superficial drift deposits recorded, and bedrock deposits recorded as the London Clay Formation (clay, silt and sand).

Fieldworks

The programme of this investigation included the excavation of one trial pit. The location of the soakaway test was selected by the client. During this work, the soils encountered were logged in general accordance with BS5930: 1990, as amended in 2007.

Percolation Testing

During the excavation of the trial pit, ground or perched water started to enter the pit at a depth of 1.30mbgl. The excavation was halted and monitored for approximately sixty minutes in which the water level rose to approximately 1.00mbgl. The results obtained from the soakaway tests are summarised below:

WS	Dimensions (m)	Depth (m)	Soil Description	Infiltration Rate (m/sec)	Drainage Characteristics
TP01	1.10 x 0.40	1.30	Orangish brown and mottled grey CLAY.	N/A	N/A

Conclusion

The soils encountered beneath the site were found to be predominantly CLAY. Given the ground / perched water levels and data from the test, it is considered that soakaways are not suitable for this site.

As the bedrock of the site is London Clay, this groundwater level is perceived to be a localised groundwater level within the weathered London Clay perched on the underlying, essentially impermeable, un-weathered London Clay soils below.

References

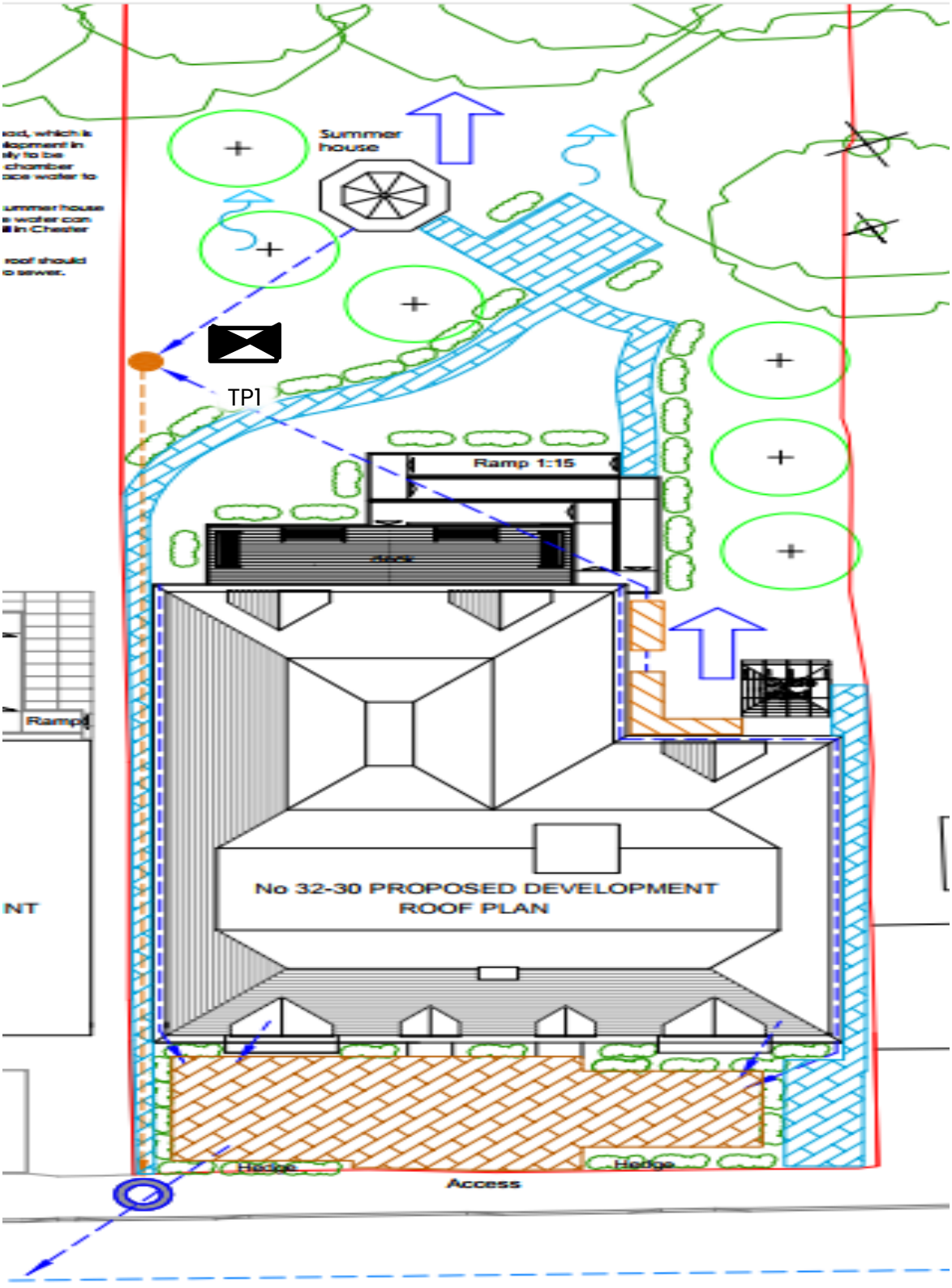
- Building Research Establishment (BRE) Digest 365, *Soakaway Design*, September 1991.
- British Standards Institution (1999) BS5930: *Code of practice for site investigations*, B.S.I., London.
- British Standards Institution (2007), Amendment No 1, BS5930: *Code of practice for site investigations*, B.S.I., London.

Please do contact me on 01243 787150 or 07758 162624 should you have any questions.

Regards

Nick Hammond
Geo-Environmental Engineer

Appendix A



Site Investigation Plan

YOUR ENVIRONMENT

30-32 Chester Road
YEX4848
Nov-22

Appendix B

YOUR ENVIRONMENT
www.yourenvironment.org
info@yourenvironment.org
01243 787150

Log of Boring TP1
Sheet 1 of 1

YE Engineer N. Hammond

Location	30-32 Chester Road, Northwood, Middlesex, HA6 1BQ
Date	November 15, 2022
Project Reference	YEX4848

Water level data

Completion: Depth NA m
Elevation NA m

24 hour: Depth ____ m
Elevation ____ m

Width 0.4 m
Length 1.1 m
Depth 1.3 m

Method (Trial pit, window etc) Trial Pit - Machine Excavation

Stratum depth (m) From	Stratum depth (m) To	Sample Depth From m	Sample Depth To m	Sample Type	GW	Install Details	LITHOLOGY
	0.50					NONE	MADE GROUND. Orangish brown sandy, gravelly CLAY. Sand is fine - medium. Gravel is medium - coarse, angular of brick, concrete and general waste fragments.
0.50	1.30						Orangish brown and mottled grey CLAY.
							End of TP1

Remarks: .

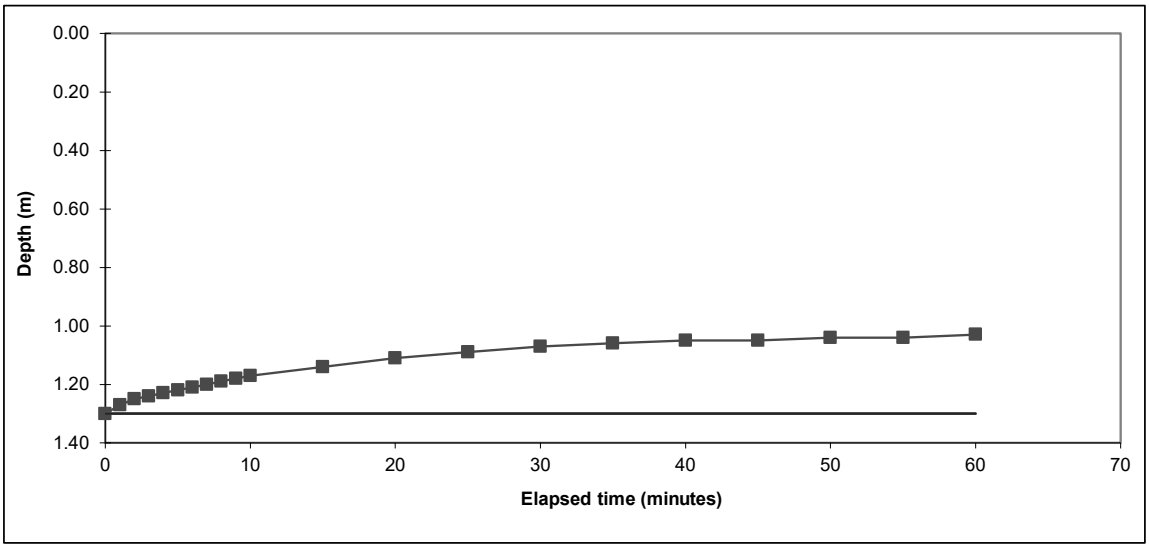
Appendix C

Your Environment

Soakaway Test

Trial Pit No:	TP1	Test No:	1	Date:	11/04/2022
Length (m):	1.100		Datum Height:	0.00	m agl
Width (m):	0.40		Granular infill:	None	
Depth (m):	1.30		Porosity of infill:	1	(assumed)

Elapsed time (minutes)	Water Depth (m below datum)	Elapsed time (minutes)	Water Depth (m below datum)
0	1.300	30	1.070
1	1.270	35	1.060
2	1.250	40	1.050
3	1.240	45	1.050
4	1.230	50	1.040
5	1.220	55	1.040
6	1.210	60	1.030
7	1.200		
8	1.190		
9	1.180		
10	1.170		
15	1.140		
20	1.110		
25	1.090		



Start water depth for analysis (mbgl):	1.30		
75% effective depth (mbgl):	1.30	Elapsed time (mins):	#N/A
50% effective depth (mbgl):	1.30		
25% effective depth (mbgl):	1.30	Elapsed time (mins):	#N/A
Base of soakage zone (mbgl):	1.30		
Volume outflow between 75% and 25% effective depth (m^3):			
Mean surface area of outflow (m^2):		0.44	
(side area at 50% effective depth + base area)			
Time for outflow between 75% and 25% effective depth (mins):			

Soil infiltration rate (m/s):	**Test incomplete as 25% effective depth not achieved. Unable to reliably determine soil infiltration rate.**

Remarks Results processed following BRE 365 (2007).

Client:	Salim Rhemtulla	**TP1**
Site:	30-32 Chester Road	

Appendix D

YEX4848
TP01 Photos