

Pure Padel Clubs Ltd
Greystone House
Moss Lane
Altrincham
WA15 8HW

Our ref.: M30462_01_00
Date: 16th May 2024

Dear Ray,

RE: INFILTRATION TESTING – MANCHESTER MACABBI COMMUNITY & SPORTS CLUB, BROOKLANDS, BURY OLD ROAD, PRESTWICH, MANCHESTER, M25 0EG

1. Introduction

Dunelm were appointed by ILEX Project Management Ltd, on behalf of Pure Padel Clubs Ltd, to undertake infiltration testing at land adjacent to Manchester Macabbi Community & Sports Club.

The purpose of the investigation was to establish the ground conditions on the site and provide infiltration rates for the underlying natural deposits.

2. Fieldwork

The purpose of the testing was to determine the soil infiltration rate of the strata identified in the trial pits.

Three hand dug trial pits (designated SA1 to SA3) were excavated to depths up to 1.20m bgl on 9th May 2024 under the supervision of an Engineer from Dunelm. The locations of the three trial pits were specified by the client and are shown on Drawing No. M30462_02_00 attached to this letter report.

3. Ground Conditions

The three trial pits formed revealed made ground to depths of between 0.30 and >1.20m bgl comprising a brown slightly gravelly sandy clay/ clayey sand with gravel of sandstone, brick, and mudstone. Brick cobbles were present within the made ground. In SA1 and SA3 beneath the made ground was a horizon of firm grey to brown sandy gravelly clay to termination depth. In SA2, a black tarpaulin was encountered at 0.80m, underlain by made ground of dark grey sandy clayey gravel.

A copy of the trial pit logs for SA1 to SA3 are attached to this letter report.

4. Groundwater

No groundwater seepages were encountered in the three trial pits excavated.

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5. Infiltration Test Results

Infiltration tests (soakaways) were carried out in SA1 and SA3 (SA2 infiltration tests were aborted due to encountering made ground); the results are appended to this letter report and summarised below.

SUMMARY OF INFILTRATION TESTING

Test Location	Inferred Infiltration rate (m/s)	Strata	Comments
SA1	5.91×10^{-7}	Clay	Inferred value – water did not fully soak away
SA3	3.74×10^{-7}	Clay	Inferred value – water did not fully soak away

For each infiltration test, the water did not fully soakaway and therefore only a single test was performed at each location; consequently, an inferred value has been calculated, as reported above. In addition, it should be noted that made ground is generally not considered a suitable strata for soakaways, due to its variable nature and potential chemical unsuitability.

We trust the above and enclosed are sufficient for your requirements, however, should you require any further information then please do not hesitate to contact the undersigned.

Yours sincerely,

T Beach-Bruckner

Thomas Beach-Bruckner
Principal Engineer

For and on behalf of Dunelm Geotechnical and Environmental Ltd.

Enclosed: Drawing No. M30462_02_00 Site Location Plan
 Drawing No. M30462_02_00 Soakaway Location Plan
 Trial pit records for SA1 to SA3
 Soakaway results for SA1 to SA2

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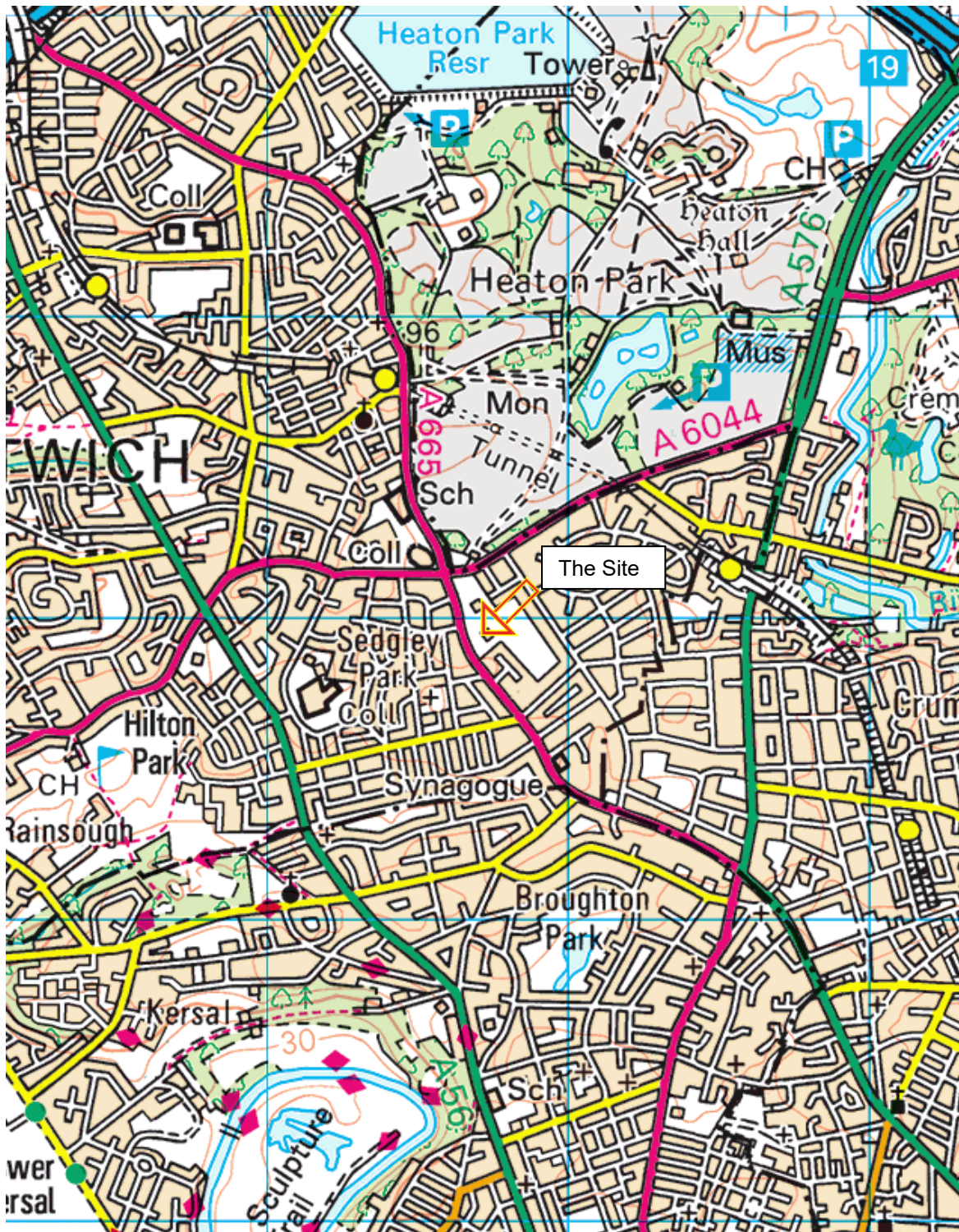


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	Contract: Manchester Macabbi Community & Sports Club		Contract No: M30462	
	Client: Pure Padel Clubs Limited			
TEL: 0161 639 1775	Drawing Title: Site Location Plan			
Drawing & Revision No: M30462 01 00	Date: May 2024	Scale: NTS	Status: Final	Drawn by: TBB



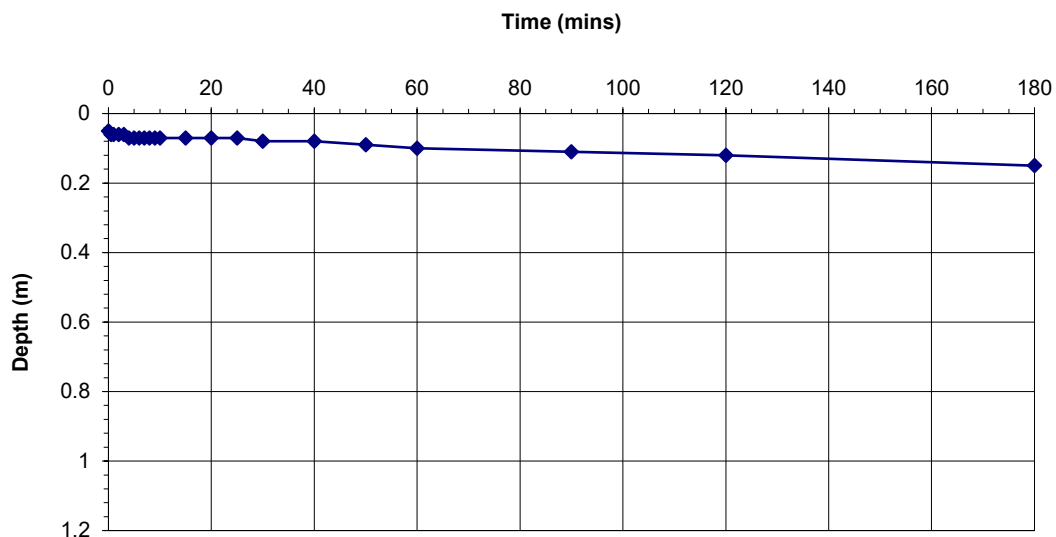
	Contract: Manchester Macabbi Community & Sports Centre	Contract No: M30462	
TEL: 0191 378 3151	Drawing Title: Soakaway Location Plan		Client: Pure Padel Clubs Limited
Drawing & Revision No: M30462_02_00	Date: May 2024	Scale: NTS	Drawn by: TBB

			TRIAL PIT RECORD				TP No. SA2			
Contract No.: M30462			Site: Manchester Macabbi				Scale 1:25			
Client: Pure Padel Clubs Limited			Logged By: CA		Sheet 1 of 1					
Method: Hand Excavated Trial Pit			Checked By: TB		Dates: 09/05/2024					
SAMPLE DETAILS			Groundwater	STRATA RECORD Description	Depth (m)	Level (m AOD)	Legend	Backfill		
Type	Depth From-To (m)	Insitu Testing								
				MADE GROUND: Greyish brown slightly gravelly sandy clay with rare cobbles and/or boulders. Gravel is angular to subangular fine to coarse of sandstone, brick and mudstone. Cobbles and/or boulders are of angular brick.	(0.80)					
				At 0.80m: Black tarpaulin noted.	0.80					
			1	MADE GROUND: Dark grey sandy slightly clayey gravel. Gravel is angular to subangular fine to coarse of sandstone, granite and brick.	(0.40)					
				End of Trial Pit at 1.20 m	1.20					
			2							
			3							
			4							
			5							
Remarks				Ground Water (m)		Excavation Details		Orientation		
1. Pit was terminated at target depth. 2. No groundwater encountered. 3. Soakaway was not undertaken in pit.				Depth	Strike	Remarks		D A C B °		
				Dimensions: 0.30m x 0.30m						
				Stability: Stable						
				Weather: Overcast with dry ground						
						Remarks: Hand Excavated Trial Pit				



SOAKAWAY DESIGN IN ACCORDANCE WITH BRE DIGEST 365: 2016
BRE Digest 365, Figure 2, Page 5

Client:	Pure Padel Clubs Ltd			
Site:	Manchester Macabbi Community & Sports Club			
Job No:	M30462			
Pit No:	SA1	Test No:	1	
CALCULATION OF SOIL INFILTRATION RATE				
Time (min)	Depth (m)		Pit Dimensions	Length (m) = 0.30
0	0.05			Width (m) = 0.30
0.5	0.06			Depth (m) = 1.20
1	0.06			
2	0.06			Depth at start of test (m) = 0.050
3	0.06			Depth at end of test (m) = 0.150
4	0.07			75% level (m) = N/A
5	0.07			50% Effective Depth = 1.1
6	0.07			25% level (m) = N/A
7	0.07			
8	0.07			Base area of pit (m ²) = 0.090
9	0.07			V _{p75-25} (m ³) = N/A
10	0.07			α _{p50} (m ²) = 1.410
15	0.07			
20	0.07			
25	0.07			V 0.009
30	0.08			T 10800
40	0.08			
50	0.09	Soil infiltration rate, f, (m/s) =	5.91E-07	Inferred value
60	0.10			
90	0.11			
120	0.12	Input by:	TBB	Date: 17/04/2019
180	0.15	Checked by:		Date:



SOAKAWAY DESIGN IN ACCORDANCE WITH BRE DIGEST 365: 2016

BRE Digest 365, Figure 2, Page 5

Client:	Pure Padel Clubs Ltd			
Site:	Manchester Macabbi Community & Sports Club			
Job No:	M30462			
Pit No:	SA1	Test No:	1	
CALCULATION OF SOIL INFILTRATION RATE				
Time (min)	Depth (m)		Pit Dimensions	Length (m) = 0.30
0	0.13			Width (m) = 0.30
0.5	0.14			Depth (m) = 1.20
1	0.14			
2	0.14			Depth at start of test (m) = 0.130
3	0.14			Depth at end of test (m) = 0.190
4	0.14			75% level (m) = N/A
5	0.14			50% Effective Depth = 1.04
6	0.14			25% level (m) = N/A
7	0.15			
8	0.15			Base area of pit (m ²) = 0.090
9	0.15			V _{p75-25} (m ³) = N/A
10	0.15			α _{p50} (m ²) = 1.338
15	0.15			
20	0.15			
25	0.15			V 0.0054
30	0.16			T 10800
40	0.16			
50	0.17	Soil infiltration rate, f, (m/s) =	3.74E-07	Inferred value
60	0.17			
90	0.18			
120	0.18	Input by:	TBB	Date: 17/04/2019
180	0.19	Checked by:		Date:

