

Mr Tom Botterill
MyPad 2020 Ltd
The Quadrant
Nuart Road
Beeston
Nottingham
NG9 2NH

Dear Tom,

Re: Barton Road, Barlestone – Infiltration Testing to Assist with Soakaway Design

Background

Erda Associates Ltd. were requested by MyPad 2020 Ltd. (hereafter referred to as the client) to undertake infiltration testing to assist with the design of a proposed permeable driveway for a proposed residential development at the site known as *Barton Road, Barlestone*. The site currently comprises an agricultural field. Site location and boundary plans are included in **Appendix A**.

A previous round of soakaway testing was undertaken at the subject site in October 2024. The results of the testing showed variable infiltration rates. As such a further round of testing was requested.

Site Works

A second round of infiltration testing was undertaken in the shallow soils between 20th and 21st March 2025.

Four soakaway test pits (SA01-04) were excavated in areas specified by the client for potential future soakaway drainage. An exploratory hole location plan is enclosed in **Appendix A**. The excavations were limited to a maximum depth of 0.50m as specified by the client.

Ground Conditions

The investigation has identified that the site is underlain by topsoil, over yellow sandy gravelly clay. The topsoil was generally recorded to extend to depths of between 0.30m and 0.40mbgl. The topsoil was immediately underlain by the clay. The base of the clay was not encountered in any of the exploratory holes.

Groundwater was not encountered in any of the trial pits.

Soakaway Testing

Soakaway drainage was noted to be relatively slow. It was not possible to complete full test runs in any of the soakaway positions over the twenty four hour monitoring period.

Infiltration was too slow to calculate an infiltration rate for positions SA01 – SA03. It was possible to complete one test run in SA04 and calculate an infiltration rate of **$1.51 \times 10^{-6} \text{m/s}$** . Full soakaway calculations are included in **Appendix B**.

Based on the two rounds of soakaway testing and variable results, it is considered that soakaway infiltration will not be suitable for the site due to the limited successful infiltration. It is noted that the

majority of test positions attempted have failed. Therefore, it is recommended that alternative drainage strategies are sought for the site.

We trust the above is sufficient for your requirements. However, should you have any queries, or require any further information, please do not hesitate to contact us.

Yours Sincerely

A handwritten signature in black ink, appearing to read 'P. Devitt'.

Phil Devitt, BSc MSc MRICS
Director

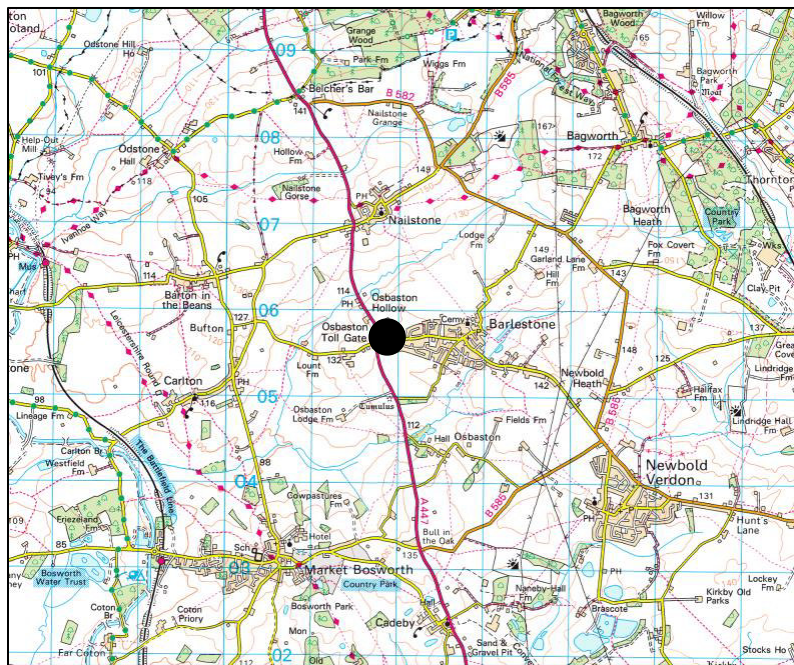
Encl.

Appendix A – Site Plans

Appendix B – Soakaway Results

Appendix A





KEY:

● Approximate Site Location

DO NOT SCALE



TITLE:

Site Location Plan

PROJECT:

Barton Road, Barlestone

PROJECT No:

EAL.288.22

DATE:

04/2025

SCALE :

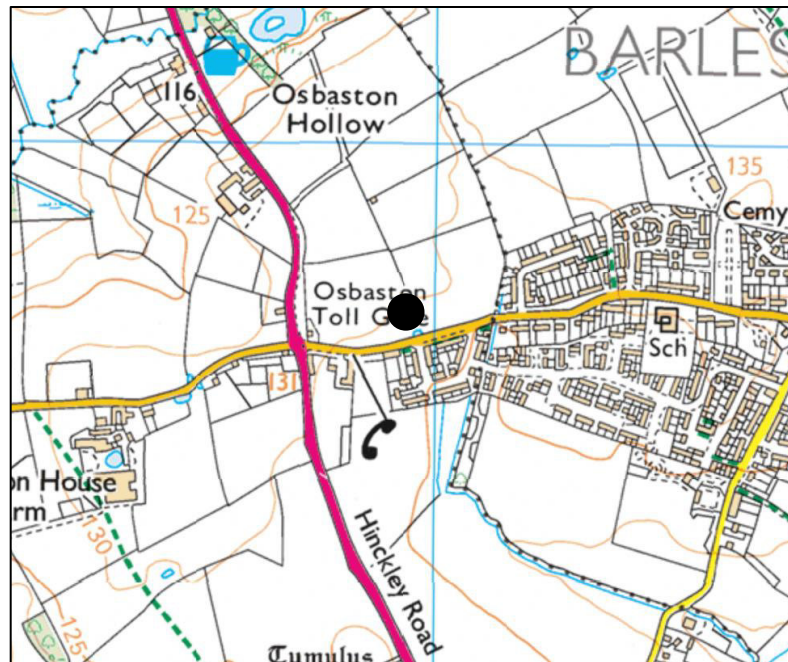
NTS

DRAWN :

PD

DWG No:

Figure 1

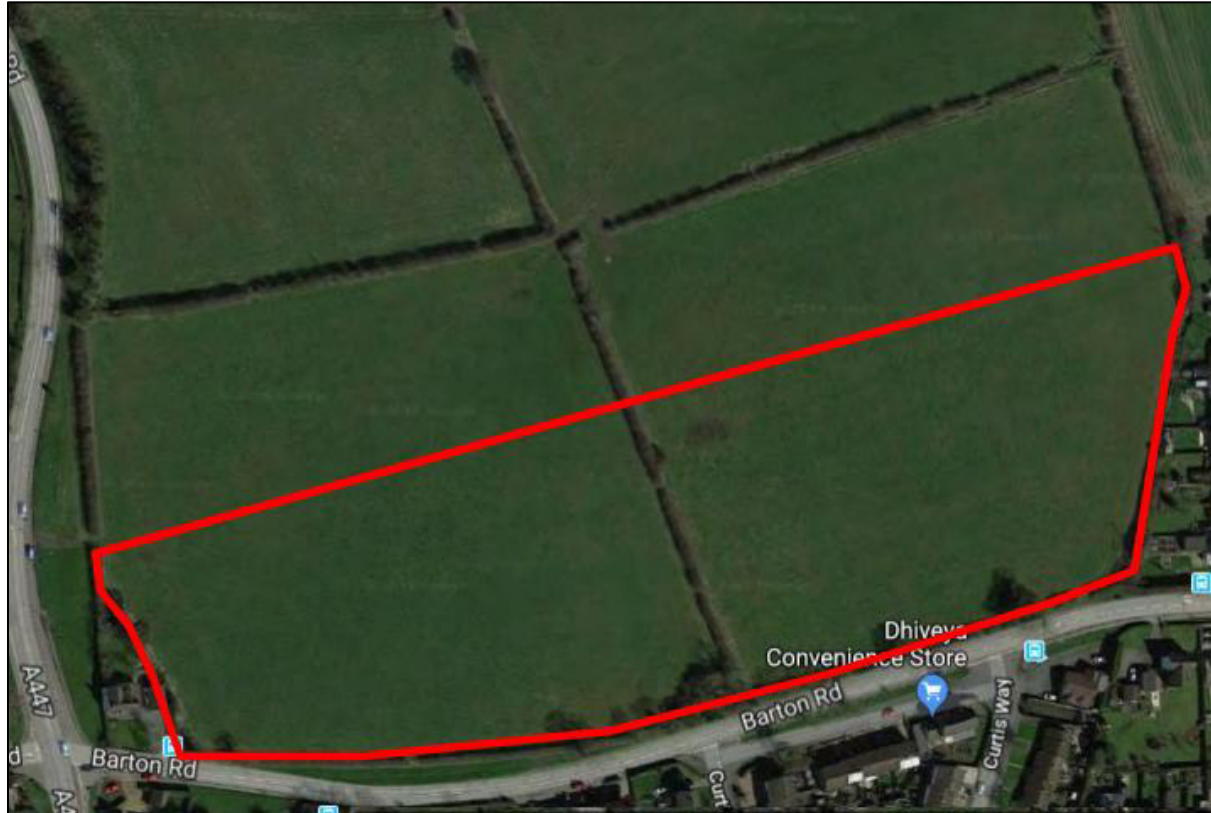




KEY:



Site Boundary



DO NOT SCALE



TITLE:

Site Layout

PROJECT:

Barton Road, Barlestone

PROJECT No:

EAL.288.22

DATE:

04/2025

SCALE :

NTS

DRAWN :

PD

DWG No:

Figure 2

KEY:



DO NOT SCALE



TITLE:

Development Proposal

PROJECT:

Barton Road, Barlestone

PROJECT No:

EAL.288.22

DATE:

04/2025

SCALE :

NTS

DRAWN :

PD

DWG No:

Figure 3



KEY:



Approximate Shallow Soakaway
Test Pit Location



DO NOT SCALE



TITLE:

Exploratory Hole Location Plan

PROJECT:

Barton Road, Barlestone

PROJECT No:

EAL.288.22

DATE:

04/2025

SCALE:

NTS

DRAWN:

PD

DWG No:

Figure 5

Appendix B



Page 1 of 1

Soil Profile:

Depth (m)		Description
From:	To:	
0.00	0.20	Topsoil.
0.20	0.50	Yellow sandy gravelly clay.

Not to scale

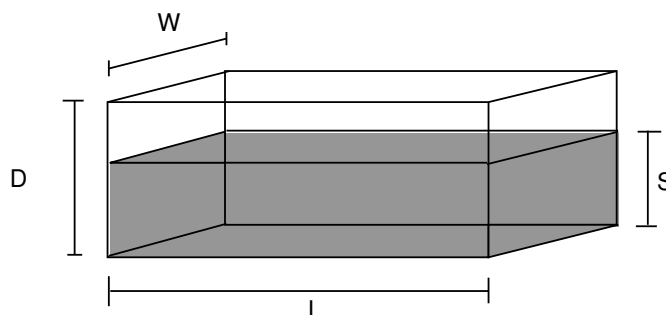
All dimensions in metres.

D = Depth of test pit =

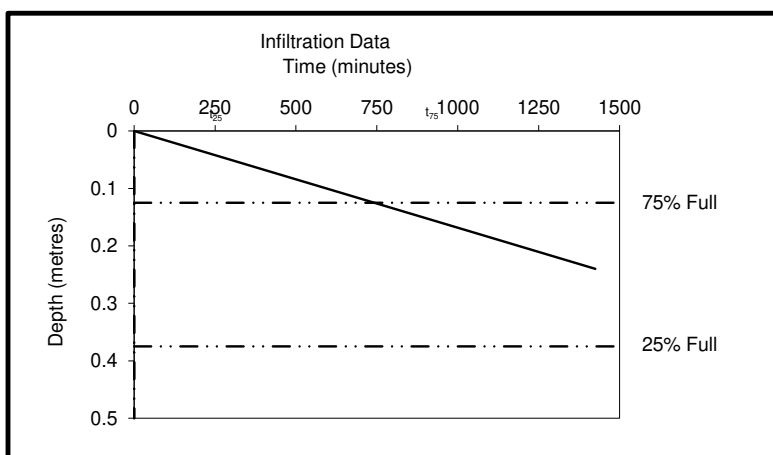
W = Width of test pit =

L = Length of test pit =

S = Storage depth (of water) =



Test Date: 20.03.2025

[illegible]

Notes:

Water did not sufficiently dissipate during test period.

Test and analysis carried out in general accordance with BRE Digest 365 : 2007

Job No.: EAL.288.22
Site: Barton Road, Barlestone
Client: MyPad 2020 Ltd.



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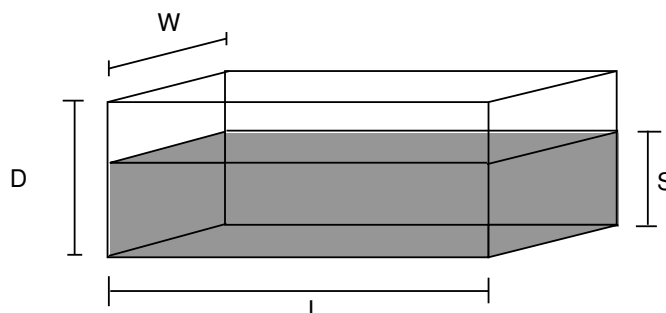
All dimensions in metres.

D = Depth of test pit =

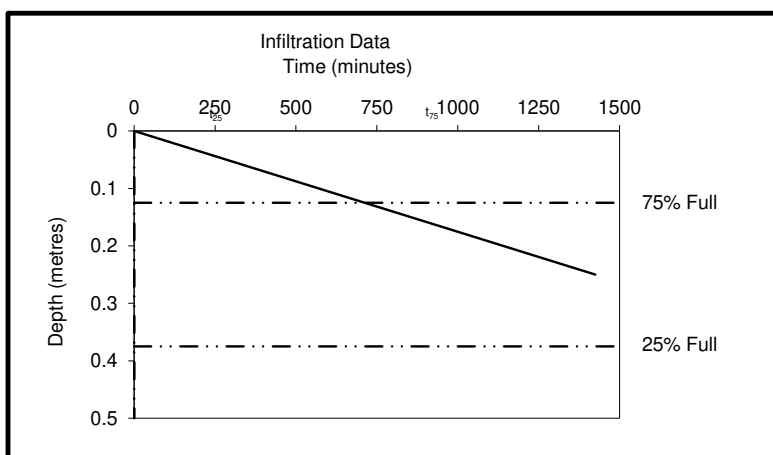
W = Width of test pit =

L = Length of test pit =

S= Storage depth (of water) =



Test Date: 20.03.2025

[illegible]

Notes:

Water did not sufficiently dissipate during test period.

Test and analysis carried out in general accordance with BRE Digest 365 : 2007

Job No.: EAL.288.22
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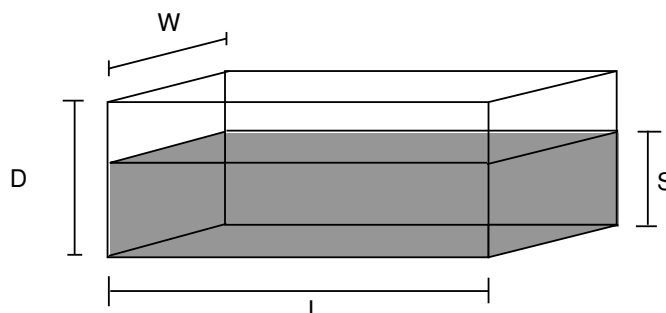
All dimensions in metres.

D = Depth of test pit =

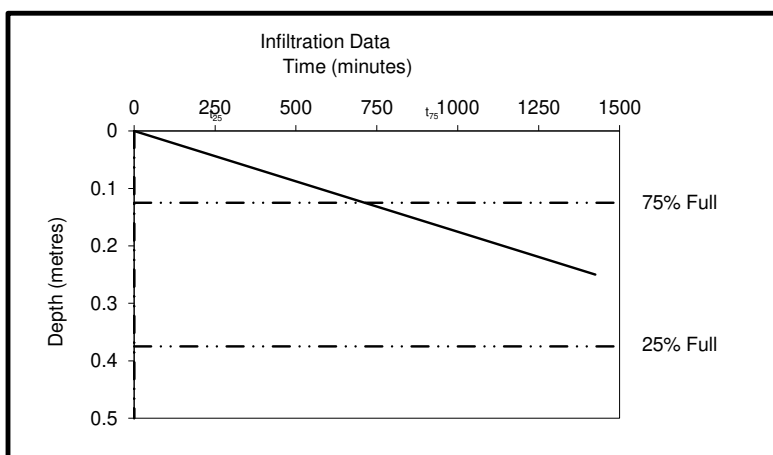
W = Width of test pit =

L = Length of test pit =

S= Storage depth (of water) =



Test Date: 20.03.2025

[illegible]

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