

PERCOLATION REPORT

LOCATION:

Hothersall Lane, Hothersall

CLIENT:

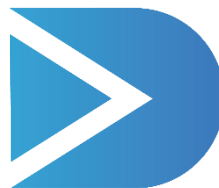
John Eccles

DOCUMENT REF:

26170-FP-001

DATE:

4th March 2026



DART
ENGINEERS LTD
CIVIL AND STRUCTURAL
ENGINEERING

CONTENTS & AMENDMENT HISTORY

1.0 TESTING REPORT..... 3

Revision	Description	Date	Author	Checked
A	First Issue	March 2025	J Sellers	A Dyson

TESTING REPORT

1.0 TESTING REPORT

The Percolation Testing was carried out on site on 4th March 2026 to establish if infiltration methods were going to be a suitable solution for draining the site.

1 Trial Hole was formed with the following dimensions;

Test Pit 1 1000mm x 600mm x 1100mm deep

The water level drop was monitored and recorded (see test sheets attached).

TEST PIT 1:

For Test 1 (Test Pit 1), water was filled to a depth of 400mm, the water level dropped 0mm after 2 hours of testing.

Calculation sheet 1 shows that the infiltration rates are not high enough and do not satisfy BRE 365 requirements. Therefore, Infiltration methods of drainage will not be viable for this site and strategy.

APPENDICES

Appendix A – Percolation Test Sheet METHOD (from BRE Digest 365)

- Excavate a soakage trail pit to the required depth (typically 1.0m - 2.0m deep) using minimum width (0.3m) and length (1.0m). Carefully trim sides and bottom.
- Carefully measure size of pit and note sizes below.
- Fill soakage hole briskly with water (from bowser) to at least three quarters full. Being careful not to wash away the sides. (Note: a 0.3m wide, 1m long, 1.5m deep trench needs at least 350 litres (80 gallons) of water)
- Place straight edge over top of soakage pit and measure (dip) to the top of the water.
- Record time versus dips in table below. Dip every 5 minutes for the first hour and every hour until pit is one quarter full. Repeat test 3 times in total on the same or consecutive days.

DETAILS

Site Location	Hothersall Lane, Hothersall
Date of Test	04/03/26
Weather Conditions	Dry – Winter
Engineer Name	James Sellers

SIZE OF PIT 1

Length	Width	Depth
1.00m	0.60m	1.10m

Test 1 RESULTS

Time (mins)	Dip (mm)	Time (mins)	Dip (mm)
0	400	90	400
5	400	120	400
10	400		
15	400		
20	400		
25	400		
30	400		
35	400		
40	400		
45	400		
50	400		
55	400		
60	400		

Date: 04 March 2026
Ref: 26170/FP/001

Appendix B – Percolation Photograph



Date: 04 March 2026
Ref: 26170/FP/001

Appendix C – Percolation Location

Test Pit 1

