

PERCOLATION REPORT

LOCATION:

Liley Lane, Grange Moor

CLIENT:

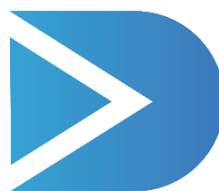
Grange Moor Homes Ltd

DOCUMENT REF:

26059-PR-001

DATE:

12.02.26



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Revision	Description	Date	Author	Checked
A	First Issue	Feb 2026	H Dyson	A Dyson

TESTING REPORT

1.0 TESTING REPORT

The Percolation Testing was carried out on site on 12th February 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 1200mm x 900mm x 1200mm 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 300mm, the water level did not drop it increased over a span of 15 mins by 50mm to having a depth of 350mm. Then it settled and didn't move for 2 hours.

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 trial 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	Liley Lane, Grange Moor
Date of Test	12.02.26
Weather Conditions	wet – winter
Engineer Name	Harry Dyson

SIZE OF PIT 1

Length	Width	Depth
1.20m	0.90m	1.20m

Test 1 RESULTS

Time (mins)	Dip (mm)	Time (mins)	Dip (mm)
0	300	90	350
5	320	105	350
10	330	120	350
15	350		
20	350		
25	350		
30	350		
35	350		
40	350		
45	350		
50	350		
55	350		
60	350		
75	350		

Date: 12th February 2026
Ref: 26059/PR/001

