PERCOLATION REPORT

LOCATION:
Pitt Street, Darfield

CLIENT:
MR James Masson

DOCUMENT REF:
26974-FP-001

DATE:
28th October 2026

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Revision	Description	Date	Author	Checked
A	First Issue	Oct 2026	J Sellers	R Thacker

1.0 TESTING REPORT

The Percolation Testing was carried out on site on 28th October 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 1600mm x 1000mm x 2200mm 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 700mm, the water level dropped 100mm after 5 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	**Pitt Street, Darfield**
Date of Test	**28/10/26**
Weather Conditions	**Dry – Autumn**
Engineer Name	**James Sellers**

SIZE OF PIT 1

Length	Width	Depth
1.60m	1.00m	2.20m

Test 1
RESULTS

Time (mins)	Dip (mm)	Time (mins)	Dip (mm)
0	700	90	600
5	650	120	600
10	620	180	600
15	600	210	600
20	600	240	600
25	600	270	600
30	600	300	600
35	600		
40	600		
45	600		
50	600		
55	600		
60	600		

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Appendix B
Percolation Photograph



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Appendix C
Percolation Location

