

SOAKAWAY TESTING REPORT

FOULD HOUSE, LEEK FRITH, LEEK, ST13 8SQ

Date: December 2020

Our Ref: A5203

Prepared for:

Derek & Jane Platt

1.0 INTRODUCTION

We have been requested to undertake a soakaway investigation Fould House, Leek Frith, Leek where it is proposed to erect 1 new residential dwelling. The investigation was undertaken to determine the permeability of the ground and to provide a soil infiltration rate to enable soakaway drainage design. The investigation comprised the excavation of a test pit and undertaking one soakaway tests in accordance with BRE digest 365.

2.0 INVESTIGATION

Following the excavation of a 2.0m x 0.60m x 2.10m deep test pit on the site, three soakaway tests were undertaken in general accordance with BRE 365 "Soakaway Design". The trial pit was excavated to a depth deemed sufficient to represent a section of the design soakaway. The vertical sides were trimmed square and the pit was filled with water and allowed to drain to 75% of its depth. The fall in the water level was recorded with time from 75% full to 25% full, this process was then repeated a further 2 times.

3.0 RESULTS OF THE INVESTIGATION

3.1 General

The following sections provide a summary of ground conditions encountered and soakaway testing results.

3.2 Ground Conditions Encountered

Approximately 900mm of topsoil was encountered with a 300mm layer of Red sandy CLAY with deposits of sandstone and underlying Red/Brown CLAY to a depth of 2100mm

3.3 Groundwater

No groundwater was encountered in the trial pit.

3.4 Soakaway Test Results

All 3 Tests failed to drain away 75% of the effective depth. The tests were therefore deemed to have failed.

4.0 CONCLUSIONS

Soakaway testing has been undertaken in accordance with BRE Digest 365 to determine the permeability of the ground to assess the suitability of soakaway design.

All 3 tests indicate that the ground has a very low permeability which confirms a soakaway design would not be suitable on site and other options must therefore be explored.

We believe stormwater should be discharged into a nearby running watercourse following approvals from the Environment Agency.

Signed:

15.12.2020

Jonathan Lee

For and on behalf of AJS Structural Design Ltd