

Soil Percolation Testing Results

Land at Springhill Farm
Selattyn
Oswestry
SY10 7NZ

Outline application for the construction of a Rural Enterprise Dwelling, detached garage and all associated works (all matters reserved)

Mrs Benbow

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Roger Parry & Partners LLP
www.rogerparry.net
planning@rogerparry.net
Tel: 01691 655334

Introduction

This Soil Percolation Testing Results document has been prepared and submitted in support of an outline planning application for the construction of a dwelling, detached garage and all associated works at Springhill Farm, Selattyn.

As part of the proposed development, a new package treatment plant and sub-surface drainage field will be installed to serve both the proposed dwelling and the existing farmhouse on-site. The existing septic tank serving the farmhouse will be decommissioned.

Package Treatment Plant & Drainage Field

The proposed package treatment plant will discharge wastewater to ground via a new drainage field constructed on-site. Soil percolation tests have been undertaken and the results are provided below for the review of the Local Planning Authority and any relevant consultees. These results confirm the ground conditions on-site would support a drainage field in this location.

The drainage field would be constructed and built in accordance with the requirements of BS 6297:2007+A1:2008. The system would also be constructed in-line with Approved Document H 2010 (Wales), Section H2 of the Building Regulations.

The drainage field would be constructed in excess of 15m any habitable accommodation on-site, 10m from any watercourse and 50m from any well or borehole. The system would also avoid any trees or tree roots. The submitted Proposed Block Plan drawing shows the proposed location of the drainage field.

The drainage field will be very carefully constructed using 110mm downward facing perforated pipes laid in trenches with a uniform gradient not steeper than 1:200. The trenches will be between 300mm and 900mm wide and minimum 1m wide strips of undisturbed ground shall be maintained between parallel trenches. The pipes shall be laid on a 200- 300mm layer of clean gravel granular fill material graded either 16-32mm or 20-50mm. The trenches shall be filled with the same material to a level 50mm above the pipe and covered with geotextile material to prevent the entry of silt. The remainder of the trench can be filled with normal soil. Pipes will be laid at a minimum depth of 200mm below the surface.

The system will be installed by a building contractor with experience of installing package treatment plants and drainage fields.

Percolation Test Results

Guidance Notes:

The following table provides details of siting distances contained in Approved Document H 2010 (Wales), Section H2 of the Building Regulations.

Siting of septic tanks, treatment plants and soakaways			
Distance from	**Dwelling**	**Watercourse**	**Borehole/well**
Drainage field	**15m**	**10m**	**50m**
Septic Tank	**7m**	**10m**	**50m**
Treatment plant	**7m**	**10m**	**50m**

Conducting the main percolation test

The percolation test should be carried out in accordance with Approved Document H 2010 (Wales), Section H2 of the Building Regulations.

1. These tests should be carried out within and be representative of, the proposed soak-away area.
2. Excavate at least 2 percolation holes 300mm square to a depth of 300mm below the proposed invert level of the effluent distribution pipe. Where deep holes are neces-sary, the hole should conform to this shape at the bottom but may be enlarged above the 300mm level to enable safe excavation to be carried out.
3. Fill the 300mm square section of the holes to a depth of at least 300mm with water and allow it to seep away overnight.
4. Next day, refill the test sections with water to a depth of at least 300mm and observe the time (T) in seconds, for the water to seep away from 75% to 25% full level. (i.e. a depth of 150mm)
5. Extreme weather conditions should be avoided when testing.

Results:

Percolation tests in accordance with the guidance provided with this form on 22/07/2025 in respect of premises at: Land at Springhill Farm, Selattyn, Oswestry, SY10 7NZ.

Description of ground strata: **moderately draining ground.**

The overall depth of the test holes dug were: (*state in metres/millimetres*):

Test Hole 1	Test Hole 2
1m	1m

I confirm that the water table did not rise to within 1 metre of the invert of the proposed land Irrigation scheme.

The weather conditions on the day were: **dry and sunny**

The results of the percolation tests were:

Test Hole 1				Test Hole 2			
	Time in Seconds		V_p		Time in Seconds		V_p
Test 1	**6420**	÷150	**42.8**	Test 1	**6530**	÷150	**43.5**
Test 2	**6190**	÷150	**41.3**	Test 2	**6470**	÷150	**43.1**
Test 3	**6060**	÷150	**40.4**	Test 3	**6110**	÷150	**40.7**
Trial Hole 1 – Average V_p			**41.5**	**Trial Hole 1 – Average Vp**			**42.4**

Average V_p of Test Holes 1 & 2	42