

SPRINGFIELD GOSPEL TRUST

Nyton Road Gospel Hall – Proposed surfacing to overflow car parking

Percolation test report – 11th December 2017

The percolation tests were run in the week commencing 23rd October 2017.

Holes were dug to 2.2m deep, and a large capacity hose was used from the adjacent nursery, to hopefully quickly fill the holes.

Test Hole 1

Test Hole 1 was dug in the North West corner of the site towards the conifers, but about 9m away from both the North and West boundaries.

This hole was dug to 1.2m x 1.2m x 2.2m deep – and the ground was mostly gravel throughout this depth.

We attempted to fill the hole for 24 hours, but the water never rose up the hole at all, but drained away through the base as fast as we could attempt to fill it, this was continued and after 2 more days the holes didn't retain away water.

Test Hole 2

Two further test holes were dug in the South West corner of the site near to the existing attenuation tank crates.

Test Hole 2 was dug 19m from the South boundary and 3m from the West boundary, this position being about 10m from the attenuation tank. This hole was 1.2m x 1.2m x 2.5m deep. We filled the hole with water, using a hose and the water level stayed steady for 5 days. We augured to a total depth of 3m and this made no difference.

Test Hole 3

Following this result we decided to dig a third hole, closer to the attenuation tank. This hole was beside the 5m side of the tank, about 2.5m away, and we dug this to similar depth of 3m see if we could find ground that drained more freely. Test Hole 3 was 0.5m x 0.5m x 3.0m deep. We filled this hole, and once again it hardly drained at all.

Summary

The area where Test Hole 1 was dug is very free draining, and suitable for use for a soak pit for the proposed additional paved car park.

The areas where Test Holes 2 and 3 were dug hardly drain at all and are not so suitable for a drainage system. The ground, in the vicinity of Test Hole 2 & 3 may well be waterlogged as being in the vicinity of the existing storage crates.

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