

Work instruction:	Date Raised
Porosity Test for SURFACE WATER SOAKAWAY	18/06/2012

Work Description Process for assessing performance of soakaway Instruction **FIRST DAY** 1. Refer to W0001 & W0002. 2. Calculate the hard standing surface area the soakaway is going to be designed to serve, and provide ALL required measurements on layout. (i.e. Dimensions of roof, road, driveway etc.) Calculate the invert level of the outlet pipe to enter the soakaway. 3 a. There is likely to be an outlet from the current surface system in place. If no system in place, calculate the approximate depth using 1:100mm falls. b. (i.e. 15.0m of pipework from starting at 0.3m in depth requires 0.15m falls, so the inlet of the soakaway would be 0.45m) Excavate a hole in the area of the existing soakaway arrangement or desired location of the 4. new soakaway arrangement (minimum 5.0m from any building). The hole should be a cross section representation of the soakaway: a. 1.0m below invert of current outlet pipe or assumed outlet pipe b. 0.5m wide 1.0m deep c. Where deep drains are necessary this hole can be excavated at the base of a larger d. deeper hole to get down to required depth. Fill the soakaway cross section of the hole to a depth of at least 1.0m with water (i.e. from base 5. of the hole up to invert level of outlet pipe). Cover the holes to prevent rain entering the hole, cordon off the area around the hole for health and safety and allow it seep away overnight. SECOND DAY Refill the hole with water to a depth of 1.0m, observe and take readings of the depth every 6. 10mins, specifically monitoring the water to seep away from 75% full down to 25% full (i.e. a depth of 0.5m) Invert 100% Full level Measure time in seconds for water 75% Full level to drop from 1.0m 75% full down to 25% full. 25% Full 0% Full 0.5m



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Responsibilities

Drainage Investigation & Site Investigation Engineers

Key Objectives

Identify if system is performing correctly.

All in accordance with WRc – The Drain Repair Book – 3rd Edition, best practice manual for the inspection and repair of domestic and light industrial drains.