

Dearman Developments Ltd

Ash House, Gravelly Dell, Gravelly Lane, Braughing, Ware, Herts, SG11 2RD
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MTC engineering,
Ground Floor,
24 High Street,
Whittlesford,
Cambridgeshire.
CB22 4LT.

Date 19/04/22

Jamie,

We have carried out infiltration tests on site for Flats
Development at 71 Station Road, Cuffley, Herts EN6 4HZ

Trial pit 1 Back of the site

Excavate 500mm wide x 1000mm long x 1100 Deep
First Layer 200mm Tarmac and concrete
Second 700mm yellow clay.
Added 500mm water, no water loss after two hours



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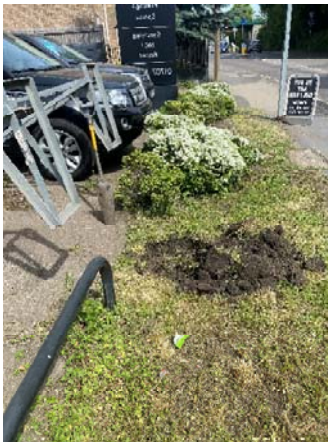
Trial pit 2 front of site

Excavate 500mm wide x 1000mm long x 1100 deep

400mm soil dark soil

700mm dark blue clay.

Added 500mm water, no loss after 2 hours



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Method Statement BRE 365 Soakage Test This test is used to determine the infiltration rate of the soil in accordance with the BRE365 Standard. It is carried out in a machine excavated pit 0.3-1.0m wide, 1-3m long and of the same depth as anticipated in the final soakaway. The pit is filled and allowed to drain to empty or near empty, three times, on the same day or on consecutive days. Each proposed location must be carefully checked for services using the CAT and Genny system before excavation of a test pit. Excavator drivers should be certified as competent and hold a valid CPCS card. When the pit has been excavated to the required depth and dimensions, the sides will be trimmed vertical and square. If the pit sides are not stable, then it will be backfilled with granular material (gravel) with a temporary perforated vertical monitoring pipe placed in the pit at one end, from the base of the pit to ground level. The gravel is usually delivered to site in advance in 1 tonne sacks, which are moved using the excavator. The pit will be filled with water to its maximum effective depth (i.e the depth below the lowest proposed invert) quickly, using a bowser or direct from a hydrant (where permission has been granted). The levels of water are recorded with time in accordance with the specifications, which usually call for the pit to be left until it is empty, which may require it to be left unattended for a period of time (sometimes over night). If the holes are left open or unattended for any time, appropriate fencing and warning signs are to be erected. On completion of the tests in open pits, any remaining water in the pit will be pumped out, usually into the bowser for subsequent discharge. The pit will then be backfilled with the excavated material (unless specified otherwise) left mounded slightly to accommodate any further settlement, and the investigation site left tidy. Risk Scoring and Assessment Health, Safety and Environmental Risk is measured using a 5 x 5 matrix to obtain a result that, after control measures have been applied is scored as: Low

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(Proceed with care), Medium (If no alternative, proceed with care),
High (Do not proceed, seek alternative). Severity 1 2 3 4 5 No Injury

or Impact Minor Injury or Impact Reportable Injury or Impact Serious
Injury or Impact Fatality, Disability or Major Impact Likelihood
Unlikely or Rare 1 1 LOW 2 LOW 3 LOW 4 LOW 5 LOW Remote
possibility 2 2 LOW 4 LOW 6 LOW 8 MED 10 MED Possibly occur
3 3 LOW 6 LOW 9 MED 12 MED 15 MED Probably occur 4 4 LOW
8 LOW 12 MED 16 HIGH 20 HIGH Certain to occur 5 5 LOW 10
MED 15 HIGH 20 HIGH 25 HIGH Hazard/Risk Type Affected
Control Measures Score Residual Risk Excavating equipment H&S
Oprs Trained and competent operators only. 2 x 3 Low Contact with
underground or overhead services H&S Oprs Review positions with
reference to utility plans and maintain safe distances. CAT scan each
position prior to breaking ground. 1 x 5 Low Pit collapse H&S Oprs
Supervise excavation only from end of pit. Stack material away from
the excavation at a distance equivalent to its depth. Monitor stability
at all times and batter sides if required 3 x 4 Med Slips, Trips & Falls
H&S Oprs Keep working area clear. Do not stand close to pit sides.
Fence and secure pit whenever unattended. 2 x 3 Low Lifting bags of
granular material H&S Oprs Bags to be lifted by excavating machine.
Once over the pit, the material is released by carefully cutting the
bottom of the bag with a hand saw. 2 x 4 Med Using a standpipe in a
public area/road H&S Oprs Others Park appropriately and with regard
to traffic. Use warning signs where needed. Ensure hoses do not
present a trip hazard to pedestrians or endanger traffic. 1 x 4 Low
Positioning bowser on site H&S Oprs Ensure level and firm ground,
close to borehole. Use banksman and take care whenever reversing 2
x 3 Low Leaks and Spills Env Env Maintenance of equipment and
pumps. Check all hoses before use. Oil spill kits carried and available
1 x 2 Low

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Conclusion

Surface water will have to go into sewer.

Site Plan.



Kind regards

Andrew Dearman
