

Ref: CS/C1317

Nicki Bates
Highground Barn
Highground Lane
Barnham
PO22 0BU

3rd February 2020**Re: Highground Barn, Barnham – Soakaway Testing – Infiltration Test Result Summary**

Dear Nicki

The following investigation was carried out at the above site in accordance with our quotation dated 22nd January 2020.

1. Site Works

The purpose of the investigation was to supply soakaway test data in general accordance with BRE document 365 (Soakaway Design) at four locations which would be the approximate intended locations for possible infiltration devices to serve a new horse show jumping arena.

The appended drawing illustrates the position of the test pits. The testing commenced at on 24th January 2020 at 09:30 with a series of BRE365 test pits excavated. Two to a depth of 0.9mbgl and two to a depth of 0.4mbgl. This was to identify the suitability of utilising conventional soakaways or a fully porous area respectively.

In addition to the soakaway test, a deeper borehole was dug adjacent to the soakaway pit to a depth of 1.2m. The borehole indicated groundwater at a depth of 1mbgl where it remained throughout the testing.

2. BRE 365 Soakaway Test Findings

All four soakaway test pits failed to drain by more than 10mm within 6 hours of observation. The testing was therefore deemed as a fail and infiltration ruled out as an option. A site walkover confirmed the existence of a watercourse to the south of the site and this should be utilised to discharge the surface water via sustainable drainage solution.

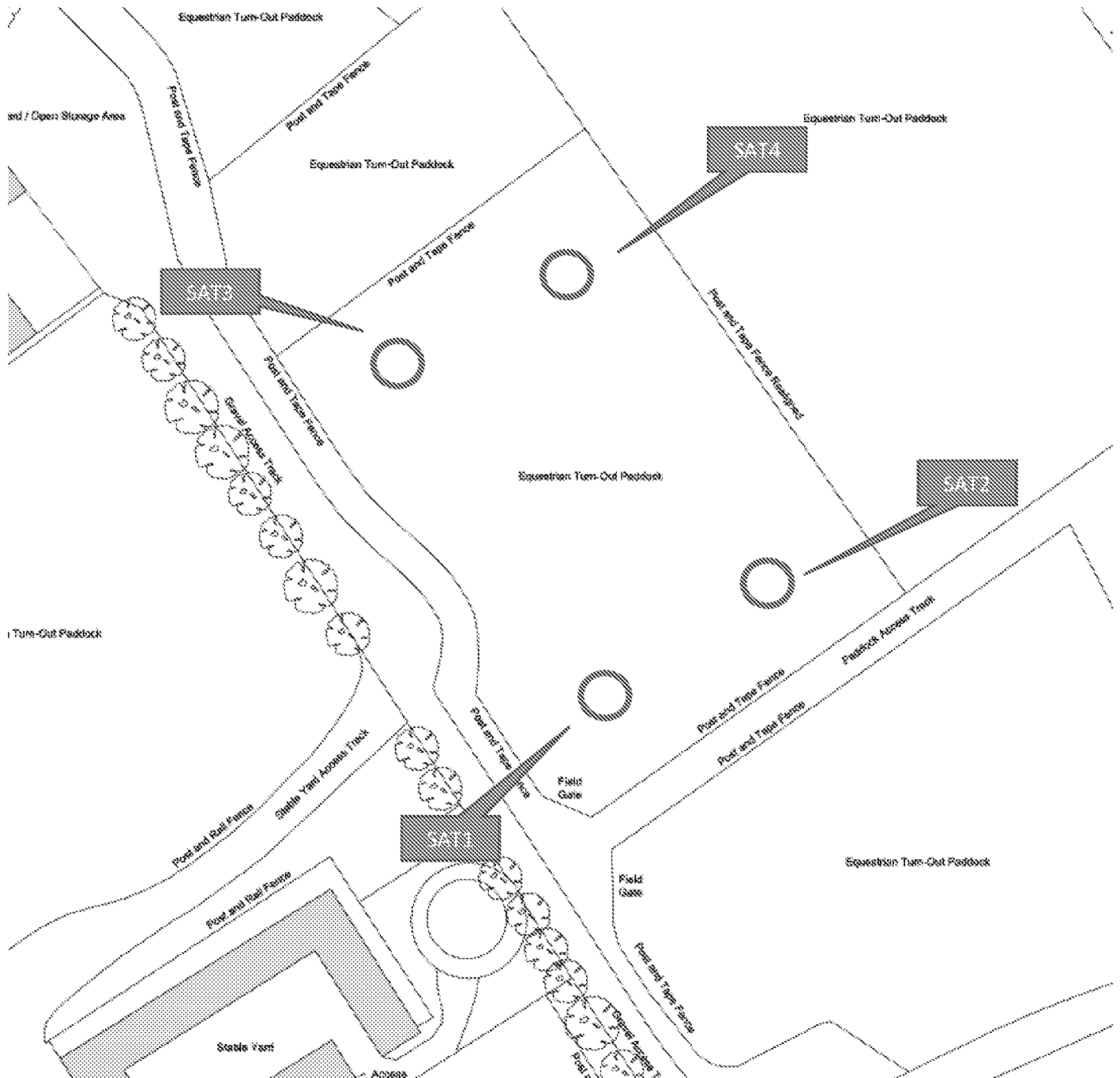
3. BRE 365 Soakaway Test Results

Test Pit No	Infiltration Rate (1-3 Tests)			Depth of Test	Soil Type
SAT1	N/A	N/A	N/A	0.9m	Clay
SAT2	N/A	N/A	N/A	0.4m	Clay
SAT3	N/A	N/A	N/A	0.9m	Clay
SAT4	N/A	N/A	N/A	0.4m	Clay

Richard Cobden House, Lion Street, Chichester, West Sussex, PO19 1LW

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Appendix A – Soakaway Test Location Plan



Richard Cobden House, Lion Street, Chichester, West Sussex, PO19 1LW

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Appendix B – Site Photographs

