

Lisa Kirby-Hawkes  
Hampshire County Council  
via email

18 November 2022

Our ref: 331201108pbond003.Docx

Dear Lisa,

**Re: Proposed extraction of sand and gravel at Hamble Airfield: site drainage design**

Further to our letter dated 24 May 2022 in which we responded to the letter from the Flood and Water management team, Economy, Transport & Environment Department, Hampshire County Council (Reference SWM/2022/0033), we confirm that infiltration tests have now been undertaken at the locations of the proposed infiltration trenches at the Site. Full details of the infiltration tests can be found in Stantec UK Ltd (Stantec) report 331201108R6 dated October 2022.

These infiltration test results provide the basis for undertaking the detailed drainage design for the Site.

We also note that climate change guidance from the Environment Agency was updated earlier this year and, for the Test and Itchen management catchment, it recommends use of a 45% uplift to the 1 in 100 year flood event, compared to a 40% uplift that was applied in the outline drainage design.

With the updated climate change uplift and the infiltration rates from the infiltration testing, it is demonstrated that the outline drainage design presented in the Flood Risk Assessment that was submitted with the planning application (ESI (now Stantec) report 66650R2 issued in November 2021) is unlikely to require modification with respect to infiltration trenches IT1, IT2 and IT4 or the Infiltration Basin (Basin 1).

However, due to the lower than anticipated infiltration rate for some of the tests and increased guidance regarding climate change, it is likely that modification to infiltration trenches IT3, IT5, IT6 and IT7 will be required.

An initial assessment of the infiltration test data confirms that an appropriate detailed drainage design can be provided for the Site, taking the higher climate change uplift into account. CEMEX proposes to commission the detailed drainage design following granting of the planning permission, as is normally done for quarry developments.

Yours sincerely



Robert Sears  
PRINCIPAL CONSULTANT