



From: "David Nash" [REDACTED]
Subject: FW: 106KHR - Campbell Reith Questions - 2017/5122/P & 2017/6307/P
Date: 23 March 2018 at 14:55:13 GMT
To: "Patrick Brice" [REDACTED]

Dear Patrick,

Please find below in blue a further response from Soiltechnics on Point no. 4 on the Audit Query Tracker. Please forward on to the planners/Campbell Reith.

Best regards

David

In response to Campbell Reith's comment, we have revised the strength/depth plot, reducing the initial shear strength to 75kN/m². We consider it appropriate to adopt stiff category parameters in the London Clay for the following reasons:

- In-situ shear strength measurements indicate stiff conditions (>75kN/m²) through the large majority of the soil profile.*
- Due to the investigation method adopted, undisturbed samples for triaxial testing were not obtained. We have converted SPT N-values to undrained shear strength, using the conversion given in Stroud and Butler. In our experience, larger conversion factors are usually achieved when N-values are converted to undrained shear strength using triaxial data.*
- The shear strength gradient adopted is based on the typical value given in Burland et al 'Building Response to Tunnelling' and is considered a good fit for the in-situ data plot.*
- The consistency index of all London Clay samples tested for Atterberg limits is in the stiff category.*

The basement excavation will be propped in the temporary case, with movements monitored and limited to 2mm.

We trust this provides the information required.

Kind regards,

Seb Crolla

B.Sc. (Hons), MEnvSc., FGS

Associate Director













