

Ground Condition Survey Summary

- The site known as Faith Land is an undeveloped plot located in the east of Northstowe where it is proposed that a new community/faith building be constructed.
- This ground investigation involved the drilling of five windowless sample boreholes to 4.0m and one cable percussive (shell & auger) borehole to 20m. Ground conditions were recorded as a limited layer of made ground (fill) followed by the Ampthill Clay Formation which generally comprised firm to stiff grey clay. Groundwater was struck in the deeper borehole at 12.1m and was recorded as resting at 15.7m on completion.
- Ground conditions are considered suitable for conventional spread foundations with allowable bearing capacities starting from 140kN/m² at around 1.0m and increasing with depth. The Ampthill Clay has a 'high volume change potential' and therefore, suspended ground floor slabs are recommended for the proposed building and foundation design should be carried out with all due consideration of the species and proximity of trees.
- A design sulphate class of DS-3 and an aggressive chemical environment for concrete (ACEC) of AC-2s is considered suitable for buried concrete in direct contact with the natural Ampthill Clay Formation beneath the area of investigation and
- A design CBR value of 4% is considered appropriate for the shallow Ampthill Clay Formation.
- The above points represent a simplified summary of the findings of this assessment and **must not** form the basis for key decisions for the proposed development. A thorough review of the details is contained within the report. Please email northstowe.community@scambs.gov.uk for a copy.