Submission ID: SA8F2958D

Response to Examiners Questions.
by Richard Gregory.
Signposting enquiry.
Question- Please direct the Examining Authority to the location of the statement referred to at page 3 of your written representation at Deadline 1 [REP 1-283 ], namely that Area G's natural permeability is low, and that imported graded topsoil would be required to improve conditions.
May I refer you to Chapter 10 - Hydrology, Flood Risk, and Drainage. [ENO 10170/APP /GH6.3.10.10 ]
GHS state that Green Hill G is underlain by clayey and limestone-rich soils, including the Oadby Member and Cornbrash Formation, which have naturally low permeability. These conditions were accounted for in the assessment of surface water run-off. But how? They do not match the conditions for permeable soils set out in the L M Cook report.
However, in Document APP/GH722 -Water Framework Directive Assessment ref 8.2,1 Table 8 - During the Construction / Decommissioning phase Compaction of Soils. GHS state that topsoil should be cultivated in -line with BS3882. 2015 to a minimum depth of 400mm average over all planting areas or to a fine tilth over all areas to be seeded and include basic levelling with levels graded to falls. This specification would reflect the conditions in the L M Cook report.
I pointed out that to achieve this specification over the whole of Area G would be environmentally unacceptable. So we are left with low permeability soils causing an increase in storm water run-off.
Geology of Site G.
Question - A submission at page 18 of your written representation at Deadline 1 [REP 1-283 ] challenges statements in the EIA Scoping Report [APP-066 ] concerning the geology of Site G. How, if at all, do you consider that the two photographs affect the assessment of flood risk to and from Site G of the proposed development.
The two photographs show the excavation operations to build an equestrian menage at Lower Farm in 2017. The excavator had to dig through the clay top soil and limestone bed rock and encountered blue clay at a depth of approx 1.5metres. to establish a level platform. The menage is located 2 metres South of the drainage channel and only 50 metres to the East of the Site G boundary.
The ground conditions of Site G so close to these excavations must be similar although although the the depths at which the blue clay pockets are exposed may vary. These photographs visually demonstrate the lack of permeability of the ground conditions in this area. From past experience we know that during heavy rain storms the surface water run-off from both our fields and Site G quickly fills up the drainage channel but the levels also drop when the rain stops which reflect the fact that the clayey topsoil is not absorbing the water.