TEICNIUIL-PRIORY CONSULTING ENGINEERS Ltd

Foul Sewerage Assessment

Collis Primary School

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Development Information

Address:
Collis Primary School, Fairfax Road, Teddington, TW11 9BS

Description:
Construction of two storey school building & the demolition of 3no. school blocks.

Introduction:
This statement details the SuDS measures to be implemented as part of the development at Collis Primary School, Fairfax Road, Teddington.

To be read with Drainage & External Civil Drawings

- 23-19-0-800 Drainage Layout
- 23-19-0-801 Drainage Layout
- 23-19-0-830 Drainage Details
- 23-19-0-831 Standard Details
- 23-19-0-832 Civil Details
- 23-19-0-833 Attenuation Details
- 23-19-0-850 Hardstandings

Description of site

Collis Primary school is located at Fairfax Road, Teddington, TW11 9BS, within the administrative boundary of London Borough of Richmond upon Thames.

The site is located within a residential area with an access road onto Fairfax Road to the South (fig. 1). The Thames lies to the West & North approx. 800meters. The site is generally quite flat with the site being within a 0.5m range. There are large playing fields to the west of the site. The total area of the site is approx. 3.11ha.

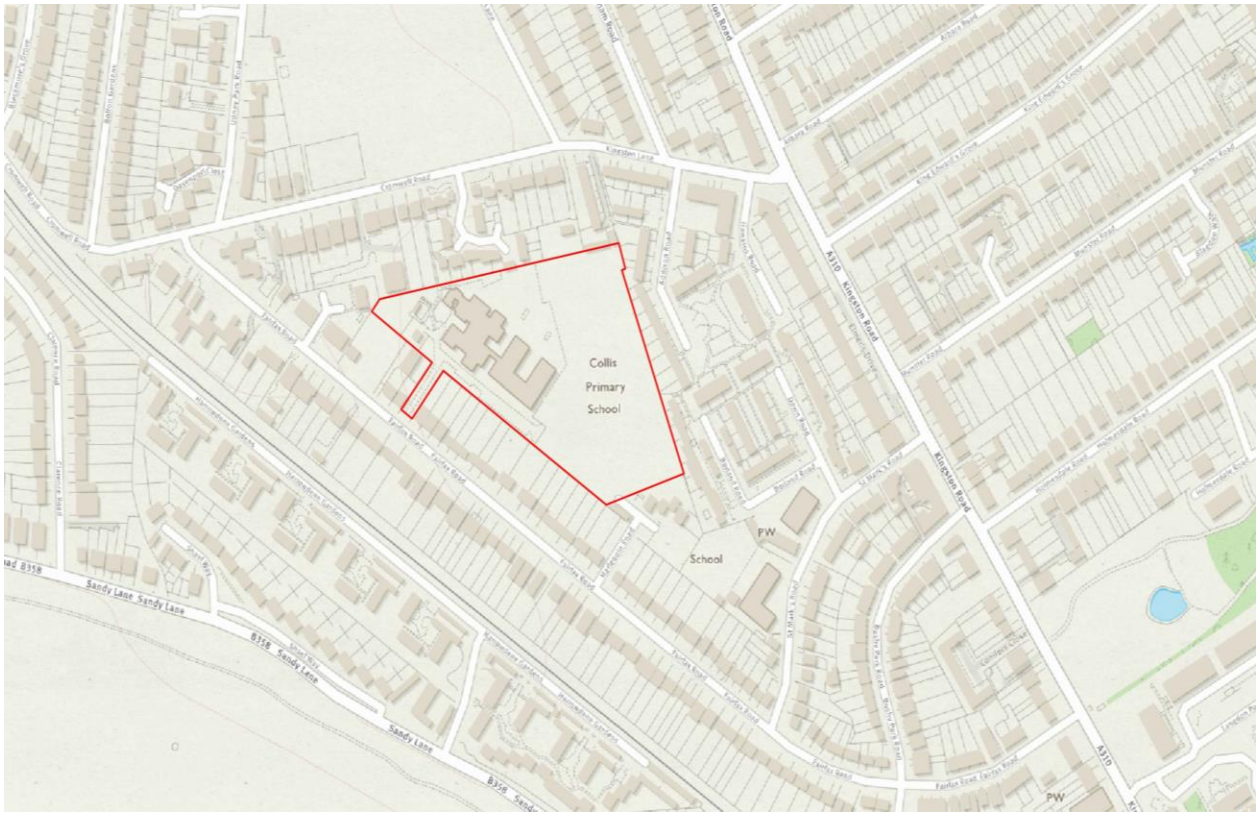

Fig. 1 Site Location, boundary shown in red
Source: osmaps.ordnancesurvey.co.uk

The school falls within the boundary of Thames Water.
The site is currently connected to the public sewer in Fairfax Road. The TW sewer records show separate foul & surface water gravity sewers running in the road. There is also a separate system within the school grounds. The foul is served by both gravity & pump systems. The sewers within the site run at a shallow depth & gradient.

The proposed building lies to the North of the site, therefore it is likely that a combination of pump & gravity system will be implemented.

An underground survey & CCTV survey of the drainage lines have been completed (by others), these surveys highlight the various issues on site, such as shallow gradients, broken pipelines, debris & blocked lines.

It is our recommendation that a new & independent sewerage system be installed for the new building, connecting to the public sewer separately from the existing network to avoid any historical on site problems.