

## **Drainage Statement for Proposed Salvation Army Church and Community Centre, 32 Queens Road, Barnsley.**

### Introduction

It is proposed to construct a new Church and Community Centre at a site located to the rear of no. 32 Queens Road in Barnsley. The site was formerly occupied by a number of workshops and out buildings with the entirety of the site being impermeable as roof or hard paved areas.

As the proposed development site is located within Environment Agency Flood Zone 1 and is less than 1.0 hectare in size a *Flood Risk Assessment* is not required.

This drainage statement has been prepared to provide information on how the proposed development is to be drained and will form part of the documentation submitted to seek planning approval for the proposed development.

### Surface Water

In accordance with requirement H3 of the Building Regulations 2000 all possible options for disposal of surface water have been considered using the preferred hierarchy suggested by the aforementioned document as shown below:

*“Rainwater from a system provided pursuant to sub-paragraphs (1) or (2) shall discharge to one of the following, listed in order of priority:*

- (a) an adequate soakaway or some other adequate infiltration system; or, where that is not reasonably practicable,*
- (b) a watercourse; or, where that is not reasonably practicable,*
- (c) a sewer.*

**Soakaways and Infiltration techniques** can only be used subject to suitable ground conditions that allow infiltration of water through the soils.

A previous Phase I Desk Study undertaken in February 2007 described likely ground conditions as *firm clays overlying sandstones and mudstones*. A Phase II Environmental Assessment undertaken in September 2008 found 2.0 – 3.4m of soft to firm grey clay and very firm to stiff dark brown/grey clay beneath a nominal layer of made ground at the surface of the site.

As such it is recommended that infiltration techniques will not be suitable for the disposal of surface water due to the presence of impermeable clay.

As **infiltration techniques** cannot be used, the presence of **watercourses** in the vicinity of the site has been investigated. Unfortunately there are no known watercourses in close proximity of the site to dispose of surface water.

As **infiltration techniques** are not suitable and **watercourses** are not available it is proposed to discharge surface water to **sewers**.

A CCTV survey of the existing below ground drainage within site, has found that the existing site utilised a combined drainage system into which all existing surface water and foul drainage from the original site was discharged. This is connected to the adjacent public combined sewer system which is located within the A61 dual carriageway.

As such it is proposed to utilise the existing connection to dispose of the surface water from the site.

In accordance with Yorkshire Water requirements it is proposed to restrict the proposed discharge rate to 70% of that which was discharged from the original site. Yorkshire Water have confirmed that the maximum discharge from the site is to be 11.0 l/s.

#### Foul Water

It is proposed to discharge foul water drainage from the site to the existing combined drain which discharges to the adjacent public combined sewer system which is located within the A61 dual carriageway.