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New Church & Community Centre, Barnsley

Salvation Army

Environmental Statement

10383

June 2012

Contract: New Church & Community Centre, Barnsley**Document Title:** Environmental Statement**Our Ref:** 10383/3.4/DF**Prepared by:** S. J. Saunders**Date:** June 2012**RECORD OF AMENDMENTS TO DOCUMENT**

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ENVIRONMENTAL STATEMENT

NEW CHURCH & COMMUNITY CENTRE, BARNSELY

C O N T E N T S

1.0 ENVIRONMENTAL STATEMENT

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CSP 2 states - Development will be expected to demonstrate how it minimises resource and energy consumption, compared to the minimum target under current Building Regulations legislation, and how it is located and designed to withstand the longer term impacts of climate change. All new dwellings will be expected to achieve at least a level 3 rating under the Code for Sustainable Homes or equivalent. This requirement will rise over the plan period and by 2013 new dwellings should achieve at least level 4, rising to level 6 by 2016. All non-residential development will be expected to achieve at least BREEAM standard of 'very good' or equivalent.

In response to the above expectation, the building will achieve a BREEAM rating of 'very good' in line with the above requirements.

CSP 3 Sustainable Drainage Systems (SuDS)

The Core Strategy has been adopted and as such 'all development will be expected to use Sustainable drainage systems (SuDS)'. 'Only in exceptional circumstances, where it can be demonstrated that all types of SuDS are impractical, will other drainage management systems be permitted'.

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.

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

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.

CSP 5 Including Renewable Energy in Developments

CSP 5 states - All development (either new build or conversion) of 10 or more dwellings or 1,000sqm of non residential floorspace will be expected to incorporate decentralised, renewable or low carbon energy sources and other appropriate design measures sufficient to reduce the development's carbon dioxide emissions by at least 15% for applications submitted up to 2015, rising to 20% for applications submitted thereafter subject to such measures being practicable and not unacceptably prejudicing the viability of the development.

The proposed New Church & Community centre does not fall into either of the above categories and as such no provision will be made to provide or incorporate decentralised, renewable or low carbon energy sources into the proposals. However, the proposals will seek to minimise energy use during the operational life of the building so as to minimise the associated carbon dioxide emissions.

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Sheppard Lockton House
Cafferata Way
Newark-on-Trent
Nottinghamshire NG24 2TN

Tel: 01636 704361
Fax: 01636 702809
W: wm-saunders.co.uk

Offices at: Newark : Leeds : Cardiff