

Verification 1 of Remediation of site off Kirkgate

& Cross St, Whaplode, Spalding, Lincolnshire, PE12 6TF

Planning Application No. H23-0434-14

1. Background

The site investigation carried out by Stuart Guy Consulting and reported in SGC report number 16-04-01, dated 04/05/2016, found no evidence for potential contamination by metals, TPH or PAH in the undisturbed soil. However, most of site was covered with hardcore of varying thickness down to 400 mm and vehicles had been parked on this site for many years. The origin of the hardcore was unknown and it was not consistent. As the hardcore was not suitable for growing plants, it was decided that any minor risk of contamination being present in the hardcore could be removed by taking it from rear garden areas.

The remediation plan was to remove the hardcore that covered most of the site from the rear garden areas and replace with good quality soil. The removed hard core is being used under the floor slab and under the access and parking hard standing.

This report relates to plots 1 – 8 and completes the verification process

2. Evidence for Verification of the Remediation Plan

The evidence consists of:

Photographs of the excavated garden areas with indications of the depth to which they will be filled.

Plot areas and approximate depths of top soil from British Sugar placed in each garden supplied by Peter Pitt

An analytical certificate for the top soil that has been obtained from British Sugar.

Delivery notes for top soil which has been transferred to Wykeham Abbey ready to transfer on site.

Delivery notes for top soil transferred to Cross Street from Wykeham Abbey.

3. Evidence relating to top soil

The certificate for the soil collected from British Sugar, Wissington, and stockpiled at Wykeham Abbey is the pdf document 'Certificate – British Sugar – Wissington – L20 – Dec 16'

The weighbridge and transfer tickets are listed in the pdf document '16-04-01 soil trans to Wykeham Abbey' for soil obtained from British Sugar, Wissington and stockpiled at Wykeham Abbey.

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Transfer tickets for soil removed from Wykeham Abbey and taken to Cross Street are listed in the pdf document '16-04-01 Cross Street soil loads'.

The following table lists the transfers to Wykeham Abbey and then to Cross Street

Soil to Wykeham Abbey		Soil to Cross Street	
Date	tonnes	Date	tonnes
27/01/2017	27.12	27/02/2017	13.5
27/01/2017	27.20	27/02/2017	13.5
31/01/2017	27.02	27/02/2017	13.5
31/01/2017	27.36	27/02/2017	13.5
31/01/2017	27.18	27/02/2017	13.5
26/01/2017	27.06	27/02/2017	13.5
31/01/2017	27.66	11/05/2017	15
31/01/2017	27.24	11/05/2017	15
01/02/2017	27.68	11/05/2017	15
27/01/2017	27.90	11/05/2017	15
26/01/2017	27.30	11/05/2017	15
26/01/2017	27.70	02/08/2017	14
01/02/2017	27.76	02/08/2017	14
31/01/2017	27.72	03/08/2017	14
Total	384	03/08/2017	14
		04/08/2017	15
		04/08/2017	15
		Total	242

4. Information relating to plots 1 - 8

Photographs 1 - 8 shows each of the plots and the excavated depth (more photographs are available if required). A density of 1.2 tonnes m⁻³ is used to convert volume of soil to mass. The areas and depths were supplied by Peter Pitt in three lots of e-mails.

Plot 1 is 69 m² by approximately 350 mm deep, ie 24 m³ or 29 tonne
Plot 2 is 29.2 m² by approximately 410 mm deep, ie 12 m³ or 14 tonnes
Plot 3 is 68.3 m² by 420 mm deep, ie 29 m³ or 35 tonnes
Plot 4 is 41 m² by approximately 470mm deep, ie 19 m³ or 23 tonnes.
Plot 5 is 117 m² by approximately 420mm deep, ie, 49 m³ or 59 tonnes
Plot 6 is 22 m² by approximately 400mm deep, ie 9 m³ or 11 tonnes.
Plots 7 & 8 are 90 m² by approximately 650 mm deep, ie, 59 m³ or 70 tonnes

Total soil applied to these gardens is **241** tonnes

The quantity of soil delivered is 242 tonnes and therefore, it amazingly corresponds almost precisely to that which was delivered. However, as the soil was delivered as required, it is not such an unusual result.

5. Summary

Peter Pitt confirmed in an e-mail that all the hardcore had been removed and used under foundations, roads and parking areas. Photographs of the eight plots show that rear gardens have been excavated to an expected depth, the soil from British Sugar is suitable for use in rear gardens and sufficient has been delivered to meet the requirements for all eight plots. The remediation requirement has been met on this site.

Stuart Guy, BSc, PhD, C Chem, MRSC, C Eng, MIMMM

Photo 1 Rear garden of Plot 1



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Photo 2 Rear garden of Plot 2



Photo 3 Rear Garden of Plot 3



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Photo 4 Rear garden of Plot 4



Photo 5 Rear garden of Plot 5



Photo 6 Rear garden of Plot 6



Photo 7 Rear garden of Plot 7



Photo 3 Rear of garden plot 8

