

B2.5c

CSG – Forstal Road

Non-Technical Summary

Introduction

Cleansing Service Group Ltd (CSG) is a leading waste management company with numerous waste treatment facilities across England. As waste specialists, CSG offers services ranging from waste collection through to the treatment of a wide range of hazardous and non-hazardous wastes. CSG looks to maximise the amount of waste which can be recovered, to divert as much material away from landfill as possible.

Current site use

CSG Forstal Road (the site) is currently being used as a transport depot for CSG vehicles, the current operation involves transporting material from collection points with a wide geographic spread, to sewage treatment works operated by water utility companies (Thames Water, Southern Water etc.).

New permit

CSG require a new bespoke permit for the installation of a non-hazardous treatment facility for domestic household waste.

The process is simple in its design. Waste will be accepted from a CSG tanker and processed through a physical screening process to remove the larger solids/stones etc. The liquid waste will then be processed through a 2-phase centrifuge which, with the addition of a flocculant, will remove much of the suspended solids. The treated effluent will then be discharged under consent to sewer, whilst the solid/sludge phase will be sent for further reclamation and potential use to land (subject to the correct permits being obtained). The addition of such a plant here will allow CSG to service off main customers in a more efficient manner, by reducing the travelling time. This will be more economically and environmentally efficient, as miles travelled will be reduced due to tankers not needing to travel extra distances to unload. Further, the residual sludge produced does not contain the heavy metals arising from sludge generated at an urban wastewater treatment works, and its reclamation and reuse will be more environmentally beneficial.

The process is entirely contained with odour abatement units used to significantly reduce the possibility of any odours arising. CSG have successfully operated a similar facility for over four years at Worcester without any issue or complaint.

Technical Standards

CSG operate an environmental management system (EMS) certified to ISO 14001 (as set out in document B2.3d). Forstal Road (the site) will be operated and audited to this standard by both internal and independent third body auditors. The specific operating procedures will be supplied to the Environment Agency once the new process is completed, these will follow the Appropriate Measures and BAT for non-hazardous waste processing.

Emissions Monitoring

The only emission from site is the discharge to sewer, S1. This is effluent from the process discharged to sewer under consent from Southern Water, consent ID 16384. Effluent will be tested for Chemical Oxygen Demand, Suspended Solids, Ammoniacal Nitrogen and Sulphide prior to discharge on a batch basis. There will be on-site testing facilities to allow this.

All testing will be logged in accordance with the management system, any effluent found to be outside the constraints of the discharge consent will be re-processed through the treatment plant prior to discharge to sewer, once re-testing has confirmed this is safe to do so.

Energy Efficiency

The site will be efficient with the use of LED lights to reduce energy consumption, this lighting is predominantly switched on during the winter months, less so in the summer months. The use of pumps to mix and transfer liquid around the plant is low energy and the most cost effective and efficient models are used.

The centrifuge will be regularly maintained in order to ensure optimal efficiency.

CSG evaluate energy usage and efficiency annually as part of their legal requirements, this information is then utilised to identify areas to improve, improvements are then implemented over the following 12 months.

Waste Minimisation

As the Forstal Road site's main operation is recovery, CSG aims to recover as much waste as possible. The waste generated at the site's processors will either be sent to another CSG facility or a third-party facility, to enable as much waste as possible to be recovered. Office based waste that is generated by site staff is collected and sent to a third party for recycling and disposal as appropriate. CSG has a scheme of internal audits whereby the waste generated is assessed and proper implementation occurs.

Water Use

Water use at this site will be low, the main water use is required for mixing of the polymer. The water use is monitored to ensure excessive use does not occur.