

B2.5c

Non-Technical Summary

CSG Avonmouth

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.

CSG are applying for a new bespoke installation permit for an aqueous waste treatment plant; the wastes accepted at the plant will be non-hazardous or deemed hazardous because they contain waste oil. The new facility will replace the current one at Pennywell Rd in Bristol (EPR AP3336SD). The development of this site, to the latest appropriate measures, will ensure CSG can continue to process wastes efficiently and to a high standard.

The Process

Wastes are accepted onto site via tankers which are either CSG's or third-party tankers. Only occasionally waste is accepted in containers. The process takes aqueous wastes that are unsuitable for discharge at a sewage treatment plant or sewer and treats them to allow discharge to sewer under consent. The process removes oil, solids and reduces the levels of any heavy metals in the waste.

All wastes accepted at the site are screened for solids that are over 6mm using a rotary screen. The screened waste is chemically dosed according to its characteristics and then pumped into treatment tanks. Oil and solids separate out within the tanks and are drawn off the treatment tanks to waste oil holding tanks and sludge holding tanks respectively.

The aqueous phase of the wastes is tested to ensure compliance with the discharge consent and then discharged to sewer via an oil/solids separator and v-notch gauge.

The sludge is 'dewatered' as much as possible prior to being tankered offsite to a suitable facility for further treatment prior to recovery and or disposal.

The waste oil is 'dewatered' as much as possible prior to being tankered offsite to a suitable facility for further treatment prior to recovery as a fuel. The oil separated out on site contains a lot of water and is not combustible without further processing at specialist offsite facilities.

Technical Standards

CSG operate an environmental management system (EMS) certified to ISO 14001:2015 (as set out in document B2.3d), the Avonmouth site will be accredited to and audited against this management system. The operating procedures at the site will follow the Appropriate Measures and BAT for

hazardous and non-hazardous waste processing. CSG Avonmouth will be subjected to audits from both internal and independent third-party auditors to ensure compliance.

Energy Efficiency

The process is not a very energy intensive one with energy use mostly limited to lighting and a few pumps. The site aims to minimise energy consumption, LED lighting is to be used. Pumps are used for the transfer of liquids around the plant, these are low energy and the most cost effective and efficient models available.

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. Avonmouth (the site) will continually be assessed against these measures to ensure best practice from the start.

Waste Minimisation

As the Avonmouth site's main operation will be waste treatment in accordance with the waste hierarchy, CSG aims to recover as much waste as possible. Any waste generated by the site's processes will either be sent to another CSG facility or a third-party facility, to enable as much waste as possible to be recovered.

Avonmouth will be audited to ensure best practice is continually followed.

Water Use

The water use at this site will be low, the main water use is required for the cleaning of the yard and the cleaning of tankers. Water use on site will be monitored, as per the rest of CSG's sites, to ensure excessive use does not occur.