

WALLEYS QUARRY

PRESS INFORMATION

Date: 25.11.2021

Title: Review of September and October

In September and October an extensive programme of drilling was undertaken at Walleys Quarry, led by our landfill gas contractor CLP Envirogas. The aim was to install additional wells into the waste mass in the central and eastern sections of site. Landfill activity had been concentrated in these areas over the proceeding months, which necessitated the need to develop and expand the infrastructure. A total of 27 wells were added into the gas infrastructure, bringing the total involved in the collection of landfill gas at Walleys Quarry to around 67 wells currently.

A well is the main means in which landfill gas, generated by the anaerobic decomposition of waste over time is collected. Generally, a well is installed vertically and comprises a perforated section of pipe, sealed into the waste with either Bentonite Clay, plastic geomembrane, or a combination of the two. A blower (large air moving pump), installed at our Gas Utilisation Plant (GUP) provides a suction to the well which encourages the landfill gas present to flow through the perforations and into a series of pipes and interconnected infrastructure to the GUP. The flow of gas is carefully managed daily to ensure that a continuous flow of gas is extracted from the site. The GUP is monitored on a 24-hour basis, through instrumentation installed within the facility and connected to a remote network. This allows engineers, based off site to monitor the performance of the GUP.

Once the gas is captured, it is preferentially treated through three gas engines. These are designed to turn the latent energy, stored within the landfill gas into electricity. Once generated, the electricity is exported from Walleys Quarry directly through the National Grid through a substation. Around 5000 homes are provided with electricity from Walleys Quarry.

Supporting the gas engines, there are a series of high-temperature flares installed on site. The flares help manage landfill gas, particularly during periods of maintenance affecting the GUP or gas field infrastructure. They additionally provide increased capacity for the management of the landfill gas generated at Walleys Quarry.

Walleys Quarry had the pleasure to host a visit from the Chief Executive of the Environment Agency Sir James Bevan on 19 November. During the hour-long visit, Sir James took the time to speak with staff members on the site, asking questions about their experience of working at Walleys, and their part in putting in place the protective

measures aimed at dealing with local concerns. We would like to extend our thanks to Sir James for visiting the facility and engaging with Walleys Quarry Ltd directly, the visit was extremely constructive and worthwhile.

ENDS

For press information please contact press@walleysquarry.co.uk

Notes to editors:

Website: <https://www.walleysquarry.co.uk>

About Walleys Quarry:

Walleys Quarry in Newcastle-Under-Lyme, Staffordshire is a landfill site, offering safe disposal of waste that cannot otherwise be re-used or recycled.