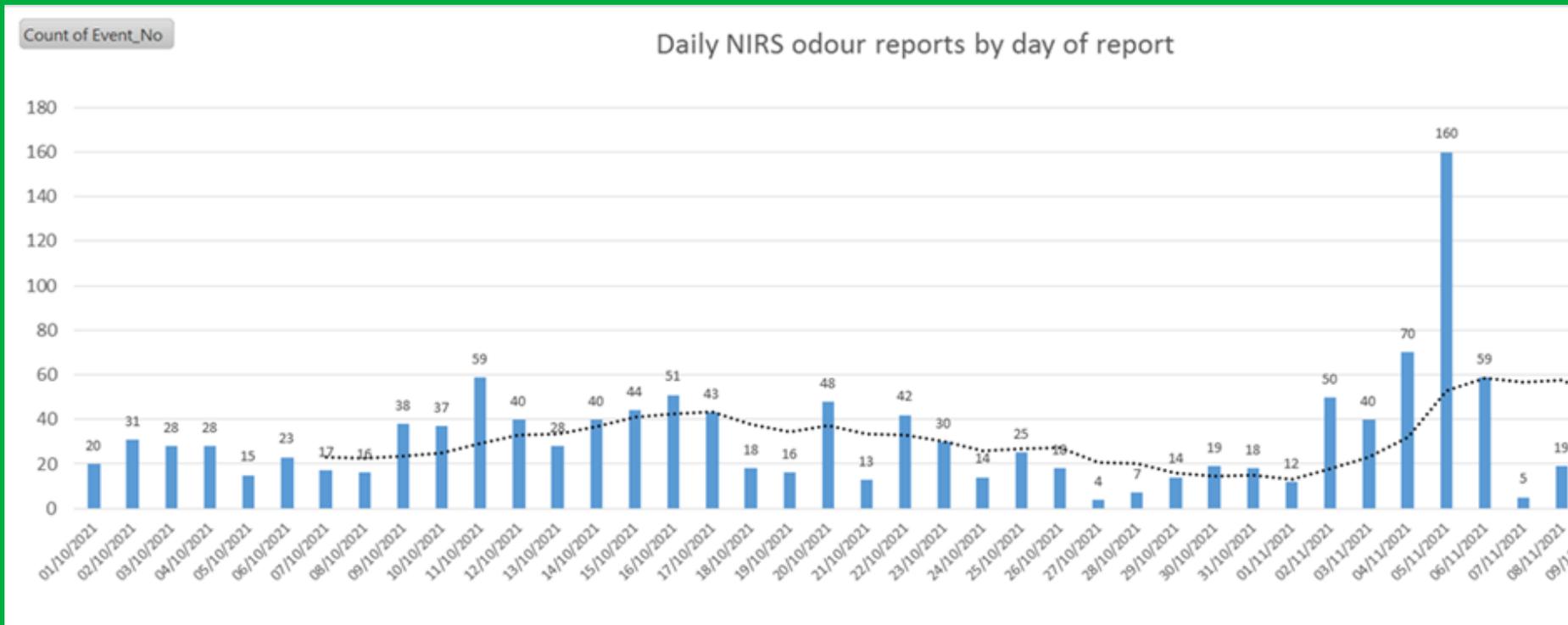


Environment Agency

Liaison Meeting - Walleys Quarry Landfill

11 November 2021

Odour Reports Summary – 1 October to 8 November 2021.



Compliance Activities

Compliance activities check whether operators are meeting the conditions set out in their permit; activities are risk based and planned, with the outcomes recorded on a Compliance Assessment Report (CAR) form.

Compliance assessments vary in frequency, duration, detail and complexity:

Site visits: check compliance with some permit conditions

Audits: more in depth check of compliance with permit conditions

Report/Data reviews: quarterly and annual monitoring reports, engineering reports, notifications

Procedure reviews: review of the operator's procedures to ensure they are both adequate and being followed – for example odour management plan, dust management plan

We record all non-compliances and each is given a score. There are 4 risk categories of non-compliance. They represent the severity of the reasonably foreseeable impact, or in the case of amenity conditions, the actual impact. The scores are accumulated during the compliance year and impact the annual charge.

Compliance Activities

Year	Site Visit & Audit (including remote)	Procedure & Report/Data Review	Permit Breaches Recorded
2019	23	16	11
2020	20	16	14
2021	40	26	19

**2021 – Amenity Assessments, not included in above figures – 77
(Above figures up to 5th Nov inc)**

Compliance Summary

Compliance summary since last meeting – 1 October to 5 November 2021

4 October- Site inspection to review of progress of the application of the Posi-shell cover material and installation of gas wells. An EA drone survey was conducted during this visit. 7 gas wells had been installed out of 28 planned.

7 October- Tier 3 Atmospheric Dispersion Modelling further information required. The modelling should include assessment of hydrogen sulphide levels against the WHO half-hour Guideline: 5PPB (30-minute) and the US EPA Reference Concentration: 1PPB (365 days or more) as health-based guidance values for long-term exposure.

7 October- Site inspection focusing on gas management and engineering developments. The gas collection pipework for additional gas wells was completed. The site gas collection system now has the ability to divert the gas wells with excessive hydrogen sulphide to flare. The gas engine line can now operate as an independent system to manage gas. Weekly gas management report for the Gas Utilisation Compound provided. A full site surface gas emission survey submitted for review.

Compliance Summary

14 October- Site inspection. No landfill gas or sulphurous odours noted off-site. An indistinct and intermittent faint fresh waste odour detected at Galingale View monitoring station. The Posi-shell application has been completed. A total of 15 new wells have been installed with 14 connected to the gas management system. A distinct landfill gas odour was detected on site at about 60m from drilling rig. Officers recorded a permit non-compliance (CCS3) regarding waste over-spilling the unloading pad. Action required to ensure any over-spilled wastes are removed. A request was made for the waste transfer documentation for the waste drums and IBC's seen on the 7 October.

20 October- Site inspection assessing gas management and engineering works. 20 of the proposed 28 additional gas wells have been installed. 19 gas wells connected to the extraction system. Total site gas flow on 20th October was 3120 m³/hr. Complete all required actions identified by the latest surface emissions survey by 5 November.

Compliance Summary

28 October- Site inspection focusing on gas management and engineering. Reported that 27 of the originally planned 28 gas collection wells could be installed due to accessibility issues. Posi-shell visually assessed had been damaged by vehicle movements during gas infrastructure installation. Action required to provide report of remedial work by 12 November. Action to submit CQA plans and method statement to facilitate capping of central and north-eastern quadrant of the site required as soon as possible. Non-compliance regarding waste over spill from un-loading pad resolved.

4 November- report/ data review and approval of the Construction Quality Assurance report for replacement and remediation of groundwater monitoring boreholes (BH 201SA and 201D).

Air Quality Monitoring

Raw 30-minute H₂S data compared to the WHO odour annoyance level for H₂S. The numbers are the percentage of time the monitoring location has recorded H₂S above the WHO annoyance guideline level:

Monitoring station	27 Sept – 03 Oct. 2021	04-10 Oct. 2021	11-17 Oct. 2021	18-24 Oct. 2021	25-31 Oct. 2021	1-7 Nov. 2021
MMF1 - Silverdale Cemetery	0%	0%	0%	0%	0%	2.9%
MMF2 - Silverdale Road	0%	0%	19.7%	0%	0%	0%
MMF6 - Newcastle-under-Lyme Fire Station	0%	0%	1.5%	0%	0%	3.3%
MMF9 - Galingale View	0.3%	5%	9%	1.5%	0%	13.5%

It is important to note that all of this data is raw data. This means it has not been subjected to quality assurance checking or calibrations. Therefore, the data should not be relied upon to make regulatory or health decisions as this may change significantly once it goes through the quality assurance checking and calibration process.

Air Quality Monitoring data - September 2021

We strongly recommend that the weekly data on the previous slide is considered in conjunction with the Environment Agency's Monthly Monitoring Report and UK Health Security Agency's Monthly Health Risk Assessment to give a more complete picture of the environmental and health issues in the local area.

EA air quality monitoring data for September can be found here

https://consult.environment-agency.gov.uk/west-midlands/walleys-quarry-landfill-sliverdale/user_uploads/monthly_air_quality_report_silverdale_-_september_monitoring_period_-_final-1-.pdf

Communication & Engagement

- **Weekly EA community updates can be found on the Walleys Quarry web pages**
- <https://consult.environment-agency.gov.uk/west-midlands/walleys-quarry-landfill-sliverdale/>