

# WALLEYS QUARRY KPI REPORT



| Date of Report: April 2024 |                           |  |   |   |
|----------------------------|---------------------------|--|---|---|
| Landfill Operations        |                           | Information  | Measurement                                   | Summary and Actions (Additional Document Reference as applicable)                                   |
| KPI 1                      | WASTE ACCEPTANCE          | Non-conformance raised with waste operator                               | CCS score(s) including summary and actions.   | 0 Non-conformance raised with operator.<br>0 CCS scores received                                    |
| KPI 2                      |                           | No of loads inspected.   | each  | 897 loads received.<br>897 loads inspected.   |
| Landfill Operations        |                           | Information  | Measurement                                   | Summary and Actions (Additional Document Reference as applicable)                                   |
| KPI 3                      | ODOUR MANAGEMENT          | Non-conformance raised with waste operator                               | CCS score(s) including summary and actions.   | 0 Non-conformance raised with operator.<br>0 CCS scores received.<br>0 non conformances identified. |
| KPI4                       |                           | No of odour tours<br><br>No of odour tours where odour detected off site |   | 48 tours<br><br>22 external odours.   |
| Landfill Operations        |                           | Information  | Measurement                                   | Summary and Actions (Additional Document Reference as applicable)                                   |
| KPI 5                      | ACTIVE TIPPING AREA       | Operational Surface area total   | m3  | 127,066 m2  |
| KPI 6                      | ACTIVE TIPPING AREA       | Active tipping area  | m3  | 15,473 m2   |
| Landfill Operations        |                           | Information  | Measurement                                   | Summary and Actions (Additional Document Reference as applicable)                                   |
| KPI 7                      | CAPPING OF OPERATION AREA | Temporary capping  | m3  | Temporary Capping    46,955 m2 (37 %)   |
|                            |                           | Permanent capping  | m3  | Permanent Capping    55,237 m2 (43 %)   |
|                            |                           |  |   | Total Capped area        102,192 m2 (80 %)  |
| Landfill Operations        |                           | Information  | Measurement                                   | Summary and Actions (Additional Document Reference as applicable)                                   |
| KPI 8                      | LANDFILL GAS MANAGEMENT   | Surface & Gas infrastructure emission surveys                            | Number of remaining matters open in the month | 0   |
| KPI 9                      | LANDFILL GAS MANAGEMENT   | Concentration of Hydrogen Sulphide in 'raw' bulk gas                     | ppm   | 1,820 ppm – recorded from CLP H2S GUP input data  |

# WALLEYS QUARRY KPI REPORT



|                     |  |   |   |   |
|---------------------|--|---|---|---|
| <b>KPI 10</b>       | <b>LANDFILL GAS MANAGEMENT</b>         | Landfill Gas capture rate (monitored at the GUP)    | m3/hr   | 3,825 m3/hr - averaged across the period.   |
| <b>KPI 11</b>       | <b>LANDFILL GAS MANAGEMENT</b>         | Appendix A LGMP Gas Management Plan (live document) | Progress including summary and actions  | See explanatory notes   |
| Landfill Operations |  | <b>Information</b>                                  | <b>Measurement</b>  | <b>Summary and Actions (Additional Document Reference as applicable)</b>  |
| <b>KPI 12</b>       | <b>LEACHATE MANAGEMENT ACTION PLAN</b> | Actions (13 actions)                                | Progress including summary and actions  | See explanatory notes.  |
| Landfill Operations |  | <b>Information</b>                                  | <b>Measurement</b>  | <b>Summary and Actions (Additional Document Reference as applicable)</b>  |
| <b>KPI 13</b>       | <b>PRIMARY REGULATOR</b>               | Compliance Assessments Visits                       | Number undertaken for which CAR form issued to operator                                     | Four visits within the period:<br><br>11 <sup>th</sup> April DP3734DC/0501575<br><br>17 <sup>th</sup> April DP3734DC/0501930<br><br>23 <sup>rd</sup> April DP3734DC/0501852<br><br>29 <sup>th</sup> April DP3734DC/0502412<br><br>. |
| <b>KPI 14</b>       | <b>PRIMARY REGULATOR</b>               | Compliance Assessments Visits                       | Number Undertaken where a CCS score is raised with operator, including summary and actions  | 0 regulatory compliance assessments undertaken which resulted in a compliance assessment score – see explanatory notes.   |
| <b>KPI 15</b>       | <b>PRIMARY REGULATOR</b>               | Compliance Assessments Visits                       | Number Undertaken where no CCS score is raised with operator, including summary and actions | 4 regulatory compliance assessments undertaken which resulted in 0 compliance assessment scores   |

## Date of Explanatory Notes: April 2024

### KPI 1 and KPI 2 Waste Acceptance

No non-conformances have been received from the regulator within the period.

897 loads inspected within the period, with 0 loads rejected.

### KPI 3 and KPI 4 Odour Management

No non-conformances have been received from the regulator within the month, with four site regulatory inspections/reviews undertaken. CAR reports for site visits confirm, in the opinion of the officer, an offsite odour detected by the Environment Agency during the visit on 23<sup>rd</sup> April. No other odours observed (see KPI 13-15, below) This was not reported to WQL contemporaneously with the observation making investigation difficult. The Agency assessments cover a wide scope of permit conditions including engineering, containment, operational activities, landfill gas management, odour and pest management.

48 odour, tours were conducted by WQL, with 22 reflecting odours experienced contemporaneously. The observations were rated 2 or less. Checks on the gas collection and treatment infrastructure, site engineering and operations and local weather factors were reviewed to ensure all appropriate actions were being undertaken. No non-conformances were identified during these times and all appropriate actions were being taken.

- Permanent Capping scheduled to commence in May to an area of the southern flank, adjacent to the site haul road. Totalling approximately 7,550 M2.
- Temporary capping using plastic membrane above engineered clay to the western flank and internal haul road on the western flank, completed in April was around 24,000 M2, with more to be installed in May.
- Planned installation of 7 new retro drilled wells and connected to commence in May.

### KPI 5 and 6 Active Tipping Area

The overall current landfill 127,066m2. The active area is confined to Cell 2. The current active area remains contained and measures some 15,473 m2. This is aligned with the capping and phasing site management plan.. The active operational area is progressively covered during the day to minimise the time that fresh waste remains uncovered. This is in line with best practice and our operating techniques. We retain healthy stockpiles of cover material to facilitate this progressive covering.

### KPI 7 Temporary Capping

Currently, 46,955 m2 of the surface area of the facility is temporarily capped, either using a high specification, low permeability engineering clay. This is in line with the capping and phasing plan for the facility, as agreed with the Environment Agency

and an increase on the previous period. Maintenance works continue to clay capped areas in line with the agreed (by the Environment Agency) CQA (Construction Quality Assurance) specifications.

### Permanent Capping

Relating to permanent capping, 55,237m<sup>2</sup> of the surface area of the facility is capped, by the installation of a low permeability geomembrane. This is in line with the capping and phasing plan for the facility, as agreed with the Environment Agency with all permanent capping works being conducted under the process of Construction Quality Assurance (CQA). Subsequently, on completion of the permanent capping works, cover soils continue to be imported to the facility as part of the site restoration process.

### KPI 8 - 10 Landfill gas management

WQL continues to undertake the extensive regime of surface emission surveys, as agreed with the Environment Agency. A, FID survey was conducted in March 2024.

The concentration of H<sub>2</sub>S at the facility remains within expected limits and in April, averaging 1,850 ppm at the Gas Utilisation Plant (GUP), as measured by CLP Envirogas Ltd and representing a reduction on the previous period.

The volume of gas captured at the facility remains within expected limits, at 3,825m<sup>3</sup>/hr, comparable with the previous period. The flow rate has remained high and consistent across the period. WQL continue to review this position and drive the gas management contractor, CLP Envirogas Ltd, to ensure that gas collection is continually reviewed to assess relevant developments that can be made.

### KPI 11 Landfill Gas Management - Landfill Gas Management Plan

The LFGMP continues to be developed by WQL and adopted by CLP Envirogas Ltd. From Appendix A of this document, three actions remain open and in progress, namely:

Site Specific Balancing Plan – this is being developed by WQL, in conjunction with the Environment Agency and CLP Envirogas Ltd. A draft has been received and is being reviewed, prior to agreement and submission to the Environment Agency.

Regular monitoring, requested by the Environment Agency of CLP Envirogas Ltd continues and is likely to remain in place.

Installation of horizontal wells in active operational areas continues as the site develops, in line with the approved LFGMP.

The LFGMP has been reviewed and issued to the Environment Agency, with comments received from the regulator on 2 June 2023 following the submission on 15 January 2023. The draft LFGMP has been discussed with NuLBC and was submitted to the Environment Agency on 14 August 2023 for approval, with further comments received 6 October. A meeting to discuss the LFGMP was undertaken on 18 October 2023 with the EA, with a further submission made 22 January 2023.

Discussions have been held with the EA to facilitate approval of the LFGMP. Further comments received by WQL for consideration, which should see approval of the plan. A further submission is anticipated to be made to the EA in May.

## KPI 12 Leachate Management Plan

In relation to the LMP, an additional 5 leachate wells have been successfully installed into the WQ facility. These have been installed utilising steel casing, increasing the robustness of the installed infrastructure to settlement and compaction of waste. replacement leachate wells at the facility.

A pump-trial has been conducted and is now complete. The results are being compiled and will be reported to the EA in due course.

## KPI 13- 15

### **11<sup>th</sup> April 2024 – CAR report 0501575**

General site visit undertaken. No compliance scores received. No odours were detected at Keele University, Dill Close, MMF 9, Ironbridge Drive, Newcastle Street, Maries Way MMF 1, or Cemetery Road. Also, a Jerome J605 analyser recorded at the locations with 0 PPB recorded.

### **17<sup>th</sup> April 2024 – CAR report 0501930**

General site visit undertaken. No compliance scores received. No odours were detected at Orme Rd, Premier shop Keele Rd, The Hamptons, MMF 9, Barnacle Place, Mill Street, Douglas Rd, Silverdale Lights crossroads. No Jerome J605 was used at these locations.

### **23rd April 2024 CAR report 0501852**

General site visit undertaken. No compliance scores received. No odours were detected at MMF 9, Keele University, Sneyd Ave, Dill Close or Cemetery Rd. Odour was detected at Milan Drive (2), Paris Ave (3), both locations were downwind of site. A525 roundabout (no rating). The Jerome J605 was also used at the locations recording 3.81 PPB at Milan Drive, 6.36 PPB at Paris Ave, 3.24 PPB at Sneyd Ave, 3 PPB at Dill Close, 3.78 PPB at Cemetery Rd and 0 PPB at both Keele University and MMF 9.

### **29<sup>th</sup> April 2024 CAR report 0502412**

General site visit undertaken. No compliance scores received. No odours were detected at Keele University, MMF 9, Maries Way, Ironbridge Drive, Mill Street, Acacia Avenue, Cotswold Avenue. The Jerome J605 was used at the following locations, Acacia Avenue 3.93 & 3.48 PPB, Cemetery Ave 4.57 & 5.39 PPB, with Keele University, MMF 9, Maries Way, Ironbridge Drive, Mill Street and Cotswold Ave all recording 0 PPB.