

Date of Explanatory Notes:

KPI 1 and KPI 2 Waste Acceptance

No non-conformances have been received from the regulator within the month. Acceptance procedures under review by the Environment Agency, through the undertaking of an audit in cooperation with WQL, including upstream audits of waste processing sites supplying residues to the landfill business sector.

Waste acceptance carried out in accordance with (Environment Agency) agreed preacceptance and acceptance protocols. 1471 loads were inspected within the period and no loads rejected.

Pre-acceptance/acceptance procedures reviewed by WQL to adopt the updated Environment Agency guidance relating to domestic seating disposal, including updated producer information and relevant declarations received. Updated preacceptance and acceptance procedures now active.

KPI 3 and KPI 4 Odour Management

No non-conformances have been received from the regulator within the month, with two site regulatory inspections confirming no offsite odour detected by Environment Agency officers. The Agency assessments cover a wide scope of permit conditions including engineering, containment, operational activities, landfill gas management, odour and pest management.

53 odour tours conducted by WQL, with 49 reflecting no odours experienced. 4 visits recorded minor odour (1 or less) local to the facility. Contemporaneously with these odour tours, 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 at during these times. And all appropriate actions were being taken.

KPI 5 and 6 Active Tipping Area

The overall current landfill area remains consistent at 101,048m². The active area is confined to Cell 4 and a small section of cell 2. The current active area remains contained and measures some 24,635m². This is in line with the approved capping and phasing plan, as agreed with the Environment Agency. 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, 34,737m² of the surface area of the facility is temporarily capped, either using a high specification, low permeability engineering clay or an installed geomembrane. This is in line with the capping and phasing plan for the facility, as agreed with the Environment Agency. 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, 40,032m² 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 perm capping works being conducted under the process of Construction Quality Assurance (CQA). 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. No FID survey was undertaken in February 2023, in line with the program agreed with the Environment Agency. The next FID survey at the facility will be undertaken in March 2023.

The concentration of H₂S at the facility remains within expected limits and in January, averaging 1690ppm at the Gas Utilisation Plant (GUP), as measured by CLP Envirogas Ltd.

The volume of gas captured at the facility remains within expected limits, at 2983m³/hr. 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 for review in January 2023. The LFGMP has also been issued to NuLBC.

KPI 12 Leachate Management Plan

Regarding the implementation of the LMP, discussions with the Environment Agency continue regarding installation of additional replacement leachate wells to ensure these are completed with the minimum weather-condition risk, environmental risk and risk to the engineering of the facility. Discussions with the Environment Agency are ongoing, with an initial meeting held in January, with a response issued to the Agency. A further submission has been made to the Agency on 10 March 2023, in response to CAR report 0450660 by WQL with support from specialist engineering consultants.

KPI 13- 15

Two Environment Agency visits were undertaken at the facility in February. No non-conformances have been received from the regulator within the month, relating to these extensive audits of the site.

CAR report 0449851 has been received, for the visit on 1st February 2023. No compliance scores were received.

CAR report 0451600 has been received for the site visit on 15th February 2023. No Compliance scores were received.

CAR report 0450660 has been received in relation to the Q4 2023 monitoring data review. The following CCS scores were received:

Infrastructure

CCS 3 score 2.7.1 – this is in relation to leachate levels at the facility, which have reduced significantly over time, with the trend continuing. Due to the basal topography of the facility, rapid changes in leachate levels can be seen, both in terms of rising and falling levels.

Emission

CCS3 x 3 Land and Groundwater – 3.1.1

Ammoniacal Nitrogen – this has been detected in external groundwater, at low levels but above compliance levels set. Specialist external review indicates that this is due to external agricultural impact.

Methane has been identified in external boreholes, which is being monitored weekly and has shown a significantly reduced trend in levels monitored.

CO2 has been detected in two external boreholes and is likely to be a result of external factors.

LS1 and LS2 – were unable to be monitored during the period, due to historic movement and deformation caused as the waste compacts and degrades. The wells are hydrologically linked to other monitoring and extraction wells within the facility and due to be replaced, through the actions within the Leachate Management Plan. Progress with the plan is subject to ongoing discussion with the Environment Agency.

Reporting and notification – 4.3.1 – a minor administrative issue due to the submission of the Quarterly monitoring report and the submission of a separate Schedule 5 notification.