Noise Management Plan

1. Purpose

This Noise Management Plan outlines the measures by which Valencia will minimise noise impacts on sensitive receptors.

2. Noise Assessment Summary

Noise Assessment R23.1002/DRK (NA) has been completed by Noise and Vibration Consultancy Limited (NVC) for the new Valencia Materials Recycling Facility (MRF) at Shelford Landfill Site. This management plan should be viewed in conjunction with Noise Assessment R23.1002/DRK.

Noise sensitive receptors (NSRs) are identified within the NA. Noise sources and the methods by which noise emissions will be minimised have been assessed in the NA. The operation of the MRF, with the designed mitigation strategy, will result in no exceedance above relevant noise limits determined from standards, guidance and planning consent noise limits for daytime periods at NSRs.

3. MRF associated noise sources

The MRF associated noise sources include the following:

- Delivery, tipping, bulking and storage within the bulking bays within the MRF building;
- Delivery, offloading and storage within the MRF building;
- Loading of waste into hopper and MRF plant operations for processing of waste;
- Loading of sorted waste streams and baled waste into bulker vehicles; and
- Noise from the movement of HGVs on site and mobile plant movement within the MRF building.

4. Noise control measures

4.1. Design Layout

The design layout has taken into account the most significant noise sources the building is orientated to minimise noise impacts on the closest NSR. Door openings where vehicular access is required are at the western wall of the building, away from NSRs. Specific noise control measures are identified in section 4.2.

4.2. Noise Control Measures

(i) All Plant and bulking areas tare located within a clad portal frame building.

(ii) Lower walls (circa 3.6m high) on inside of cladding are constructed from concrete blockwork.

(iii) Upper walls formed from single skinned cladding.

(iv) Roof formed from single skin cladding with roof lights.

(v) Doors that are not regularly used for vehicle access to be closed, unless for maintenance or emergency.

(vi) Large doors into MRF building will be either fast acting or electric roller shutter doors

(vii) Single doors will be fire type. Designed to ensure no noise character is perceptible at NSRs in accordance with BS4142: 2014+A1:2019.

(viii) Mobile plant and site-controlled vehicles fitted with non-tonal reversing alarms

(ix) External plant is not proposed at the MRF. In the event that it is deployed plant should be designed to a level not exceeding 65dB(A) @ 3m.

(x) Any future proposed ventilation openings to be fitted with acoustic louvres (advice to be sought on acoustic performance required).

(xi) The MRF will be operated only between 0700-1800.

4.3. Operational Control Measures

The mitigation measures afforded by the design and orientation of the building; design of MRF processing equipment ensure that the impact of noise is minimised at source. The MRF operation will be carried out entirely within the confines of the building.

Valencia's management system ensures the continued maintenance of the building structures and preventative maintenance of plant and machinery. These operational measures ensure the continued effectiveness of noise mitigation. In addition where not operationally required, doors will be kept closed, ensuring the integrity of the designed noise mitigation controls.

The operation of the MRF, will therefore result in no exceedance above relevant noise limits determined from standards, guidance and planning consent noise limits for daytime periods at NSRs.

5. Noise Sensitive Receptors

NVC's Noise Assessment considered the proximity and sensitivity of noise sensitive receptors. This includes neighbouring human receptors including residential, commercial and industrial locations. Sensitive habitats in the vicinity have also been considered.

6. Quantitative Noise Monitoring

Quantitative noise monitoring will be carried out if it is identified that problems are being caused and to demonstrate conformance with any noise levels imposed by the planning consent.

Valencia also carries out annual routine monitoring at all of their sites for noise pollution. The monitoring is carried out either within the installation at the noise source, on the boundary of the installation or at specific receptor locations. The monitoring is carried out using an integrated sound level meter, at sensitive locations around the perimeter of the installation.

7. Noise Complaint Investigation and resolution

Valencia encourage members of the public to report any concerns about noise levels directly to the site, so that they can be investigated as they occur. This will enable Valencia to determine the source of the noise event. If the source of noise is a Valencia operation then investigation as the incident is taking place will better enable us to identify the source of the noise. This in turn will enable the site supervisor to put in place measures that will prevent recurrence of unacceptable noise.

A record will be maintained of noise complaints. In the event that noise pollution events become persistent, Valencia will agree a program in which to implement remedial measure.