



SHERBOURNE RECYCLING LIMITED

MATERIALS RECYCLING FACILITY, SHERBOURNE RESOURCE PARK

NOISE MANAGEMENT PLAN

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NOISE MANAGEMENT PLAN

APRIL 2023

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1 INTRODUCTION

1.1 Site Location

1.1.1 Wardell Armstrong has been commissioned to prepare a Noise Management Plan to accompany a permit application submitted by Sherbourne Recycling Ltd for a Materials Recycling Facility, which will facilitate improvements in recycling for a number of local councils.

1.1.2 The Site is owned by Coventry City Council, and is located at Sherbourne Resource Park, London Road, Whitley, Coventry, CV3 4AR. The national grid reference for the site is SP 34831 7754. The Site is a 9.3 hectare area of land, located ~0.2km north of Whitley, Coventry.

1.1.3 This Noise Management Plan will outline the methods by which Sherbourne Recycling will systematically assess and minimise the potential impacts of noise generation from the Site.

1.1.4 This is a working document with the specific aim of ensuring that:

- Noise impact is considered as part of routine inspections
- Noise is primarily controlled at source by good operational practices, including physical and management control measures
- All appropriate measures are taken to prevent, or where that is not reasonably practicable, to reduce noise emissions from the Site.

1.1.5 This Noise Management Plan addresses the impact of noise and the control measures employed used to mitigate the risk. These are supported through monitoring procedures to identify both elevated levels and through review of complaints should they arise. The complaints management procedure, including management responsibilities, are also included.

1.2 Supporting Risk Assessment

1.2.1 In support of this Noise Management Plan (NMP), an Environmental Permit Noise Impact Assessment has been completed by Environmental Noise Solutions (ENS), under reference NIA/9981/21/10097/v2/MRF Coventry, produced on the 2nd of March, 2022 and submitted to the Environment Agency in tandem with this Noise Management Plan.

1.2.2 The Environmental Permit Noise Impact Assessment will thus be used as an appropriate Noise Risk Assessment for the Site, with suitable modelling of external

plant and other noise emissions from the Site, alongside source and receptor assessment.

- 1.2.3 The Noise Assessment showed that the plant on site was not expected to have any significant impact on nearby residential receptors, with the noise from site plant predicted to be at or, usually, below background levels.
- 1.2.4 If there are significant changes to the supplementary Noise Risk Assessment where relevant, this Noise Management Plan will be appropriately updated to reflect any changes in this regard.

2 SOURCES, RECEPTORS, AND IMPACTS

2.1 Sources

- 2.1.1 Within the Site, the following sources of noise from items of external fixed plant have been modelled in the Environmental Permit Noise Impact Assessment, using noise data from the suppliers of the plant (pictured in Figure 2-1, taken from the associated report by ENS):
- 1 x FV Stack
 - 1 x Dust Stack
 - 1 x Reception Hall Air-Handling Unit (AHU1)
 - 1 x Outfeed Hall Air Handling Unit (AHU2)
- 2.1.2 For the Noise Management Plan, these sources have been assumed to be operating simultaneously, with no on-time correction.

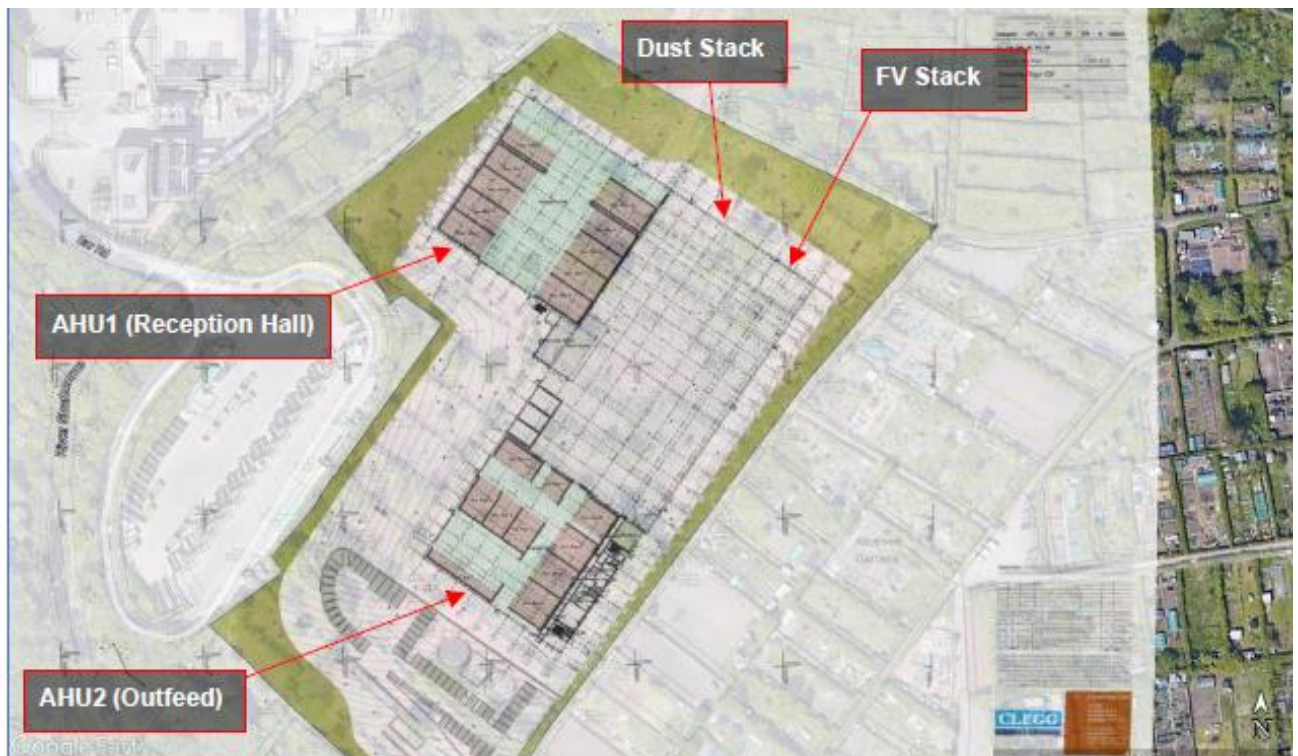


Figure 2-1 Map of Fixed External Plant at Sherbourne MRF (ENS)

2.1.3 In addition to fixed plant, HGV and wagon movements have been modelled as part of the Environmental Permit Noise Impact Assessment.

2.1.4 The model has assumed the following vehicle movements at the Site:

- 2 x HGV arrivals per hour
- 2 x HGV departures per hour
- 3 x Wagon arrivals per hour
- 3 x Wagon departures per hour

2.1.5 This has been pictured in Figure 2-2 Figure 2-2 HGV Route into Sherbourne MRF below, supplied by ENS, with the on-site route of HGVs and wagons modelled to both the reception hall and outfeed hall sections of the Site.



Figure 2-2 HGV Route into Sherbourne MRF (ENS)

- 2.1.6 Noises from on-site activities will generally occur between 0600 and 1800 Hours, in line with anticipated local authority waste collection and operational hours.
- 2.1.7 However, it is anticipated that 24-hour use of the facility may be required for further waste processing activities, which is also modelled as part of the Environmental Permit Noise Impact Assessment.
- 2.1.8 Noise levels are modelled to be c. 83dB(A) within the reception hall and circa 85dB(A) within the process hall from machinery processes outside of the scope of external building plant or vehicle movements.
- 2.1.9 The sound reduction index of the building envelope was assumed to be 19dB throughout, based on standard cladding and is included in the model of noise emissions to any receptors as part of the Environmental Permit Noise Impact

Assessment. The building fabric therefore provides an important part in controlling noise from the sorting plant.

2.2 Receptors

2.2.1 As part of this Noise Management Plan, external receptors have been identified in tandem with the site Environmental Management Plan and Planning Statement.

2.2.2 The Site is in an area of mixed land use, some of which may be sensitive to noise emissions from the site. Adjacent to the east are the London Road Allotments. There is an industrial area located adjacent to the south-eastern boundary of the site, including an existing Coventry City Council waste and vehicle depot. There are residential receptors located north, northeast, south, and west of the site, within 1km. The closest residential receptors are on the opposite side of London Road A4082, ~200m south of the Sherbourne MRF site entrance, ~150m southwest at Whitley Village and ~160m northwest at Shortley Road. There are also 6 schools within the 1km radius, the closest school being Bluecoat CE Secondary School, located 250m north of the site.

2.2.3 The following NSRs (Near Site Receptors) represent such nearby residential receptors that are relevant to noise pollution impacts and these were included in the Noise Assessment.

- Residential dwellings on Humber Road, circa 250 metres to the north of the site (NSR1)
- Residential dwellings on Whitley Village, circa 150 metres to the south-west of the site (NSR2)
- Residential dwellings on Shortley Road, circa 160 metres to the north-west of the site (NSR3)



Figure 2-3 Map of NSRs around Sherbourne MRF Site Boundary (from Noise Assessment by ENS)

2.3 Impacts

- 2.3.1 The Environmental Permit Noise Impact Assessment has identified that the Site will not impact noise emissions beyond the baseline noise levels of the area to the identified NSRs and other receptors.
- 2.3.2 The expected site noise emissions are on average 8dB below the existing background noise levels at the nearby NSRs in the daytime, and do not exceed background noise levels at the nearby NSRs in the night-time.
- 2.3.3 Due to the Environmental Permit Noise Impact Assessment identifying that the site is indicated to have a low noise emissions impact in line with BS 4142 in both a daytime and night-time modelled scenario (inclusive of latent noise emissions from the processing and machinery halls), it is unlikely that activities on site will have an impact upon ambient noise of the local NSRs and other local receptors described in Sources.
- 2.3.4 As such, under Noise and Vibration Management: Environmental Permits guidance, currently no further action is required beyond proposed physical and management control methods in line with BAT to reduce noise pollution for the proposed operation.

2.3.5 In relation to BAT, the following is relevant in line with the Site Planning Consent:

- External loading/unloading is prohibited by Condition 20 of Planning Permission ref: FMES/2020/0427
- Night-time HGV movements are prohibited by Condition 18 of Planning Permission ref: FMES/2020/0427
- Low-noise plant has been adopted wherever feasible
- Exhaust stacks are to be provided with acoustic enclosures, in particular acoustic housing is to be provided around the fans to reduce noise levels from approximately 93dB(A) to less than 85(dBA).

3 NOISE CONTROL MEASURES

3.1 General

3.1.1 Physical and site management measures have been included to control noise at the Site. These are discussed below, showing that appropriate measures are in place, in line with BAT for noise pollution management.

3.2 Site Management Responsibility

3.2.1 Technical & Operations Manager (or designated responsible person) will have responsibility for ensuring that nuisances and hazards arising from the Site from noise are minimised as far as reasonably practicable. Regular operations meetings will be held which will include, where relevant, current and planned site operations that have the potential to generate noise emissions.

3.2.2 Necessary control measures will be communicated to site staff.

3.3 Physical Control Measures

3.3.1 A comprehensive range of physical control measures will be implemented at the site, including:

- All plant and equipment will be regularly maintained to ensure that no item will produce excessive noise, following the manufacturer's recommendations,
- Where faulty equipment makes excessive noise which is shown to be having an impact beyond the site boundary, it will be taken out of use until it can be repaired or replaced,
- Plant will be turned off when not in use to avoid unnecessary noise emissions,
- Traffic will be managed through the use of a Traffic Management Plan, avoiding vehicle idling on site,
- Shutter doors will be kept closed as far as possible to avoid further noise emissions from vehicles or plant inside the facility,

- The building will be properly maintained to ensure it continues to provide noise attenuation
- Acoustic housing around exhaust stacks will be inspected and maintained so that it remains fit for purpose.

3.4 Management Control Measures

3.4.1 A comprehensive range of management control measures will be put into place on the Site, including:

- All plant and equipment will be regularly maintained to ensure that no item will produce excessive noise,
- Drop heights will be minimised,
- A routine daily site check will take place and be recorded to identify if there is any excessive noise at the site boundary, where a noise issue is identified this will be investigated and appropriate remedial measures will be put in place,
- Staff will be made aware that they are working in the vicinity of residual receptors and asked to avoid any unnecessary noise,
- Where new equipment is introduced noise will be a consideration in purchasing and the noise risk assessment and noise management plan will be reviewed.

4 NOISE EMISSIONS MONITORING

4.1 General Reporting

- 4.1.1 All operational staff will be responsible for reporting any noise problems immediately to the TOM (or designated responsible person).
- 4.1.2 Baseline noise assessments have been undertaken as part of the Environmental Permit Noise Impact Assessment.
- 4.1.3 Qualitative monitoring of noise levels will be included as a factor by the CM (or designated responsible person) as part of their daily maintenance walkover of the site, with a record being made in the site log.
- 4.1.4 Routine inspection of all plant and equipment will also support the identification of equipment operating at elevated noise levels and work will be undertaken as part of monitoring and site maintenance procedures to repair any defective or non-compliant machinery.

5 NOISE CONTINGENCY MEASURES

5.1 Introduction

5.1.1 Elevated levels of noise may be identified by either receipt of a noise complaint from a third party suggesting that there is excessive noise from the Site, or from detection of elevated noise levels as a result of routine monitoring by site personnel.

5.1.2 This section details the contingency measures that the Site has in place to identify the source of elevated noise levels, bring noise levels back under control and minimise their impact.

5.2 Noise Complaint Investigation

5.2.1 In the instance of a noise complaint, the following process will be enacted.

5.2.2 A diary note, plus any other appropriate reporting of an incident will be completed by a designated responsible person and recorded on site.

5.2.3 A proforma has been listed in Appendix 1, this may be completed or an alternative similar record of the complaint may be made using an appropriate digital incident reporting platform.

5.2.4 All complaints from third parties will be forwarded to the TOM (or designated responsible person) to action as below, and recorded onto an incident report log within 72 hours.

5.2.5 The TOM (or designated responsible person) will ensure that:

- The complaint is investigated to identify the cause, if necessary, this may involve direct communication with the complainant.
- In the event of elevated levels of noise being detected, the presence of any abnormal site activity is assessed and if necessary preventative action is taken to prevent a recurrence of the same problem, which must be documented as part of an investigative process.
- The complainant will be contacted and given information on the investigations conducted, and any appropriate actions taken to address the noise complaint.
- If this investigation indicates that the complainant has not been justified this will be clearly recorded as part of the investigative process and in the incident report. All complaints will be logged and recorded.

5.3 Elevated Noise Levels

5.3.1 Any elevated levels of noise identified by daily site observation checks or via a noise complaint investigation (Section 5.2) will be mitigated as follows:

- The TOM (or designated responsible person) will investigate the source of the noise and carry out a range of checks at the identified source of the elevated levels, if it is found to be originating from within the site.
- As part of these checks, the TOM (or designated responsible person) will consider the need for quantitative monitoring and, where it is deemed to be of value, arrangements will be made for appropriate monitoring.
- Any noise monitoring will be completed in accordance with the relevant British Standards.
- Where necessary, the results of any noise monitoring will determine whether the site is causing an unacceptable impact at the receptor in question.
- The TOM (or designated responsible person) will ensure that the plant or equipment is being operated to the manufacturer's specification, and ensure that any improvements required to minimise the noise levels are made.

5.3.2 To further mitigate the elevated noise levels, the following actions shall also be considered:

- The replacement of equipment identified as generating excess noise.
- Review of the time of intermittent operations to determine if they can be undertaken at a different time.
- Review the operation of any automated equipment to ensure it is operating to the minimum levels required.
- Once the improvements identified by the TOM (or designated responsible person) have been completed, the manager will commission a further set of monitoring to ensure that the improvements have met the required standard if required. If the noise levels are still not being met, then the TOM will undertake further improvements and subsequent monitoring until the appropriate noise emission limits are met.

5.3.3 If operational failings are identified on the Site, the retraining of employees will take place to ensure that all employees operate to the required standards.

5.4 Reporting Measures

5.4.1 In the event of elevated levels of noise being identified, the event will be reported to the TOM (or a designated responsible person) where an incident will be recorded against an incident log and managed in line with either the Noise Complaint Investigation or Elevated Noise Levels process respectively. Details of the complaint is then distributed throughout the organisation for review at appropriate operational, management and health and safety meetings.

5.4.2 The log will record any actions taken to rectify the issue, ensure that any necessary actions or reviews are recorded, and ensure that the person reporting the incident is notified.

Appendix

Appendix 1 - Proforma Noise Complaint Report Form

Noise complaint report form	Date:	Ref. No.
Name and address of complainant		
Tel no. of complainant		
Time and date of complaint		
Date, time and duration of offending noise		
Weather conditions (e.g., dry, rain, fog, snow)		
Wind strength and direction (e.g., light, steady, strong, gusting)		
Complainant's description of noise (e.g., hiss, hum, rumble, continuous, intermittent)		
Has complainant any other comments about the offending noise?		
Any other previous known complaints relating to installation (all aspects, not just noise)		
Any other relevant information		
Potential noise sources that could give rise to the complaint		
Operating conditions at the time offending noise occurred (e.g., flow rate, pressure at inlet and pressure at outlet)		
Action taken:		
Final outcome:		
Form completed by		Signed

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