



EA Permitting Noise Management Plan

Site Address: Kenny Waste Management, Groby Road North, Manchester, M34 5HT

Client Name: Kenny Waste Management

Project Reference: NP-013499-NMP

In partnership with:



Authorisation and Version Control

Revision	Reported By	Checked By
01	T. Sloan, BSc, MIOA	T. Watkin, MSc, MIOA

Amendment History

Revision	Date	Summary of Amendments
01	09/01/2026	--

Disclaimer

This document has been prepared for the Client only and solely for the purposes expressly defined herein. NOVA Acoustics Ltd owe no duty of care to any third parties in respect of its content. Therefore, unless expressly agreed by NOVA Acoustics Ltd in signed writing, NOVA Acoustics Ltd hereby exclude all liability to third parties, including liability for negligence, save only for liabilities that cannot be so excluded by operation of applicable law. This report has been solely based on the specific design assumptions and criteria stated herein.

All works undertaken by NOVA Acoustics Ltd are carried out in accordance with NOVA Acoustics Ltd's terms and conditions found at www.novaacoustics.co.uk.

Contact Details

NOVA Acoustics Ltd,
Suite 13, Crown House,
94 Armley Road,
Leeds,
LS12 2EJ

0113 322 7977

www.novaacoustics.co.uk

technical@novaacoustics.co.uk

Delivering sustainable development by promoting good health and well-being through effective management of noise.

Contents

1.	NOISE MANAGEMENT PLAN ('NMP')	3
1.1	Site Description & Context	3
1.2	Maintenance and Review of the NMP	3
1.3	Noise Sensitive Receptors	4
2.	NOISE SOURCES & PROCESSES	5
2.1	NIA Conclusion – NP-013499	5
2.2	External Noise Sources	6
2.3	Operational Procedures & Permit Proposals	6
2.4	Required Noise Control Measures	7
3.	CONTROL MEASURES & PROCESS MONITORING	8
3.1	Appropriate Measures & Best Available Techniques (BAT)	8
3.2	Operator Monitoring Plan	9
3.3	Management Control Measures	10
3.4	Noise Complaint Investigation	10
3.5	Reporting Measures.....	11
	APPENDIX A – ACOUSTIC TERMINOLOGY	12

List of Figures

<i>Figure 1</i>	<i>– Measurement Locations and Site Surroundings</i>	<i>4</i>
<i>Figure 2</i>	<i>– Site Layout Procedures Plan</i>	<i>7</i>
<i>Figure 3</i>	<i>– Indicative Monitoring Locations</i>	<i>9</i>

List of Tables

<i>Table 1</i>	<i>– Site Operating Hours</i>	<i>3</i>
<i>Table 2</i>	<i>– Source Noise Levels & Behaviours</i>	<i>6</i>
<i>Table 3</i>	<i>– Site Procedures</i>	<i>7</i>
<i>Table 4</i>	<i>– Noise Control Measures & BAT</i>	<i>8</i>

1. Noise Management Plan ('NMP')

This noise management plan outlines the methods by which the site operator will systematically assess and minimise the potential impacts of noise generated by the site. The noise management plan is a working document with the specific aim to ensure that:

- Noise impact is considered as part of routine inspections.
- Noise is primarily controlled at source by good operational practices and 'Best Available Techniques' ('BAT'), including physical and management control measures.
- All appropriate measures are taken to prevent or, where that is not reasonably practical, to reduce noise emissions from the site.

The noise management plan addresses the impact of noise, and the control measures employed to mitigate the risk. These are supported through monitoring procedures to identify elevated levels and review complaints should they arise. The complaints management procedure is also addressed, which includes the management responsibilities.

1.1 Site Description & Context

The area immediately surrounding the site is primarily industrial/commercial usages with the closest residential properties to the south, and further afield in all directions except for north which is a retail park.

Other industrial/commercial sites are situated nearby who's activity was deemed as intensive as that from the site under assessment. To the immediate east is an aggregate processing site which host a crusher/screener and excavator running simultaneously at times. The noise emissions associated with the neighbouring site where impulsive (metal bucket impacts) and regular.

The acoustic climate was subjectively moderate at all measurement locations and dominated by road traffic noise from the M60 and surrounding road networks.

Hours of Operation

The following hours of operation shall be adhered to:

Periods	Proposed Bespoke Operations
Monday – Saturday	07:00 – 18:00 hours

Table 1 – Site Operating Hours

1.2 Maintenance and Review of the NMP

- Adam Jonathon (Director) and the Site Manager will be responsible for the NMP and ensuring people are trained.
- The NMP will be kept in the site office.
- The NMP will be reviewed annually, or sooner in the event of substantiated complaint related to noise.
- Training needs are defined in the site EMS. Training will be given to all relevant persons to make sure they are competent in completing noise and vibration survey forms, noise and vibration complaint report forms and the site diary to ensure sufficient monitoring of noise and vibration

can be carried out and any problems addressed correctly. This will include training to all new staff and re-training via toolbox talks, as applicable.

- Records of complaints and associated investigations will be maintained by the Site Manager, or suitably trained staff member, if the site manager is not available.
- All employees and sub-contractors of Kennys Waste Management involved with potentially noise operations will receive training in noise and vibration monitoring and complaint reporting. Training will be given to all relevant persons to make sure they are competent in completing noise and vibration survey forms, noise and vibration complaint report forms and the site diary to ensure sufficient monitoring of noise and vibration can be carried out and any problems addressed correctly.

1.3 Noise Sensitive Receptors

Shown in the following figure are the closest noise sensitive receptors ('NSR').



Imagery ©2025 Airbus, Bluesky, Infoterra, Maxar technologies, Map data ©2025 Google

Figure 1 – Measurement Locations and Site Surroundings

The majority of residential NSRs are two-storey properties except for several single-story bungalows. The NSRs have been grouped into the following clusters:

- NSR1 – Approximately 107m SW of site off Audenshaw Road
- NSR2 – Approximately 165m SE of site off Audenshaw Road
- NSR3 – Approximately 306m E of site off York Street
- NSR4 – Approximately 203m SSE of site off Auden Road
- NSR5 – Approximately 365m W of site off Slate Lane
- NSR6 – Approximately 342m NW of site off Pelham Street
- NSR7 – Approximately 227m S of site off Delta Road

2. Noise Sources & Processes

2.1 NIA Conclusion – NP-013499

A BS4142 assessment has been undertaken for a bespoke permit application in line with the EA requirements.

Due to the proposed waste transfer operations, a high level 'adverse impact' is initially predicted at NSR1 on Saturdays, with 'low impact' predicted during weekdays. A contextual discussion was formed in the body of the report.

In light of the context, the 'worst-case' weekday noise impacts at NSR1 are thought to align with the threshold for a 'No Observed Adverse Effect Level' ('NOAEL') in accordance with the NPSE. However, despite the context, Saturday noise impacts in accordance with the NPSE are approaching a 'Significant Observed Adverse Effect Level' ('SOAEL') and but initially align with 'Lowest Observed Adverse Effect Level' ('LOAEL').

At NSRs 4 and 7, there is also a "low likelihood of adverse impact" on Saturdays. At all other NSRs during the week and on Saturdays, the 'worst-case' noise impacts in accordance with BS4142 are 'low impact'. In relation to the NPSE, these noise impacts at all other receptors are thought to align with the threshold for a 'No Observed Adverse Effect Level' ('NOAEL').

The first aim of the NPSE is to "*avoid 'significant adverse impacts' (SOAEL)*"; this can be achieved. To the best of NOVA Acoustics knowledge there have been no complaints from nearby NSRs and given there are no proposals to alter the site operations from what is currently present, it is possible that the predicted noise impact levels are acceptable.

The initial bespoke permit proposals have been substantially revised in response to anticipated noise impact levels. The site will not be expanded, and there are no plans for additional equipment or processing. While it was advised that the waste bay compound walls be extended, site operators have notified NOVA Acoustics that this improvement cannot be accommodated. Given the constraints of available space, the predicted noise impacts are considered to represent the lowest achievable pre-BAT levels.

In line with EA requirements this comprehensive noise management ('NMP') should be implemented and adhered to throughout the lifetime of the development.

2.2 External Noise Sources

Description	L _{Aeq,T} (dB)	L _{WA} (dB)	On-Time Correction	Source Emitter Type	Source Height
Hyundai HL960A Bucket Loader Moving Heavy Materials ^[1]	77 at 10m (Q2)	105	50%	Area Source (per/unit)	2m
Bin Truck/Skip Waste Drop Off ^[2]	78 at 5m (Q2)	100	50%	Point Source	2m
HGV (un)loading via Excavator ^[1]	78 at 10m (Q2)	106	50%	Point Source	2m
Bin/Skip Truck Pass by	77 at 10m (Q2)	105	20 per hour	Slow-moving Point Source	2m
HGV Pass by ^[3]	79 at 10m (Q2)	107	2 per hour	Slow-moving Point Source	2m

Notes:

[1] On-time has been set to 50% as the same vehicle is required to operate in two locations on site.

[2] On-time set to 30min/hr as each unloading event takes on average 3min, with up to 10 events per hour.

[3] Clattering of wagon holdall resulted in elevated noise emissions – deemed a worst-case.

Table 2 – Source Noise Levels & Behaviours

2.3 Operational Procedures & Permit Proposals

The following main external equipment is being considered:

- HGV passbys and loading
- Hyundai HL960A Bucket Loader
- Liebherr LH24 Excavator
- Bin/Skip truck passbys and unloading

In terms of vehicles in and out of the site, site operators have stipulated that typically 100 skip/truck drop deliveries occur from 07:00 – 18:00 which equates to a 'worst-case' of 10 per 1-hour.

There is also up to 8 HGV loading events per day, the worst case shall be assumed to be 2 HGVs in any given hour.

A summary of the site operations is presented on the figure and table below.



Figure 2 – Site Layout Procedures Plan

Process	Description
Waste Transfer Operations	
1	Waste is taken by this route and tipped such that it can be sorted then moved into a storage bay.
2	Waste is sorted by bucket loader, excavator or by hand. Sorted materials are moved via bucket loader into storage bays to be loaded into HGVs. HGVs are loaded via excavator.
3	HGVs leave via the weighbridge or direct from the southern exit.

Table 3 – Site Procedures

2.4 Required Noise Control Measures

It was advised that the waste bay compound walls be extended, site operators have notified NOVA Acoustics that this improvement cannot be accommodated.

Whilst at this time no physical control measures have been recommended, it is imperative that all HGV and Skip traffic be kept within the boundaries of the proposed site operations layout as shown in figure 2.

No HGV or Skip traffic may be directed through the portion of land to the south as this would increase the impact of vehicle noise on NSR1.

3. Control Measures & Process Monitoring

3.1 Appropriate Measures & Best Available Techniques (BAT)

Description	Operating Hours	Control Measures / BAT	Impact Contribution	Action Taken if Outside Optimum Process Parameters
Hyundai HL960A Bucket Loader Moving Heavy Materials	Monday – Friday: 07:00 – 18:00 hours	All waste loading/unloading operations must take place in the location shown in Figure 2 and situated within a purpose-built compound. Daily visual inspection, yearly full mechanical inspections, trained staff using equipment. Regular toolbox sessions on standard procedures. Regular site walks by site manager checking on procedures. Waste drop heights shall be minimized, bringing any bucket or claw system as low to the impact zone as possible.	High	Cease operation and investigate reasons for elevated sound levels.
HGV (un)loading via Excavator				
Bin Truck/Skip Waste Drop Off		Drivers shall be informed to only use horns in cases of emergency and not to leave engines idling during loading operations. A maximum site speed limit of 5mph shall be adhered to. All loads shall be fully secured, with any loose chains or noise generating peripheral equipment appropriately stowed during transportation. Any event requiring the handling of chains shall be conducted using the best possible methods to reduce noise from impacts.	Moderate	Cease operation and investigate reasons for elevated sound levels.
Bin/Skip Truck Pass-by				
HGV Pass-by				

Table 4 – Noise Control Measures & BAT

Equipment Maintenance

All failed/broken plant and equipment will be replaced with equivalents that produce equal or lower levels of noise. This will be verified with manufacturers technical datasheets or on-site noise measurements.

All plant and machinery will be regularly and properly maintained in accordance with the preventative maintenance schedule of which the appropriate staff will be trained in.

3.2 Operator Monitoring Plan

Monitoring of noise emissions from the site will be undertaken both subjectively and objectively.

Continuous Subjective Noise Monitoring

- All operational staff will, as part of their induction, be made aware of their roles and responsibility. It is the responsibility of all staff to be aware of noise on site and to report any potential noise issues to the sites Operations Manager at the earliest opportunity.
- All staff will have refresher training on noise issues, prevention and management at six-monthly intervals.
- If members of staff report any instances of elevated noise, this should be investigated immediately. In the event that increased noise levels are verified; the source of the noise should be taken out of commission and must be fixed/corrected prior to the equipment being put back into commission.
- A visual inspection of all equipment should be made before use to ensure that there are no obvious faults or malfunctions that could lead to elevated noise levels. It will be ensured that any noise mitigation measures (silencers, etc.) are installed as per manufacturer's guidance.

Objective Noise Monitoring

- A class 2 sound level meter should be purchased to measure sound levels on site. This will take place during typical operations when the site is in use and associated plant vehicles are operating as normal.

Monthly Measurements

Noise levels will be measured at monthly intervals in the indicative locations shown below.

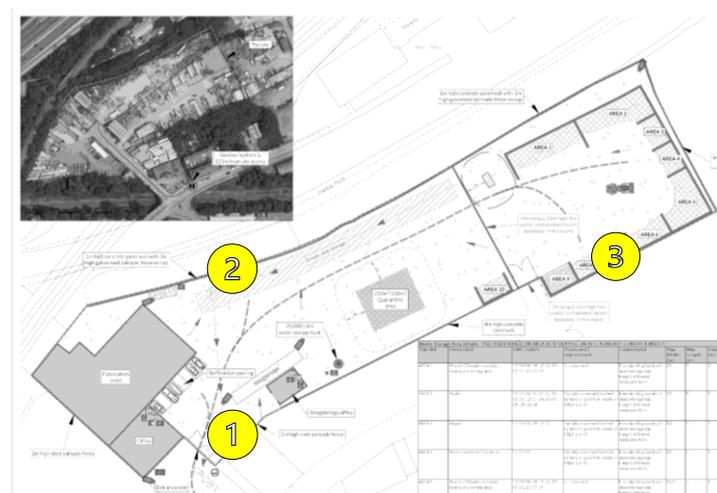


Figure 3 – Indicative Monitoring Locations

- $L_{Aeq,1hour}$ (A-weighted noise levels averaged over a 1-hour assessment period) and L_{AFmax} noise levels will be recorded. Measurements taken on site will be compared with previous measurements. If $L_{Aeq,1hour}$ noise levels increase by more than 3dB from the previous month then the cause of the increase shall be investigated.
- When the source of the elevated noise levels is discovered, remedial work shall be undertaken to reduce noise emissions to 'normal' levels. If complex remedial work is required, the offending equipment will be taken out of commission until repair work is completed. This will be logged in an IMS (Issue Management System).

3.3 Management Control Measures

- Users of on-site plant and equipment complete a daily defect log at the beginning of the working day if they observe that their vehicle is not working to its optimum. An on-site mechanic actions the defect log on the same working day and machines are not used until this action has been completed.
- Tool-box talks are provided by site management on a regular basis to site operatives. These talks include all aspects of the management plans for this site.
- Plant maintenance schedules using the manufacturer's recommendations where vehicles are serviced after 500 hours of operation.
- Pre-use checks are completed prior to using plant and equipment daily.
- Defects are reported and actions are taken to rectify the problem or remove the offending item from service until such time as the issue is resolved.
- All plant and equipment are visually inspected by the operator at the end of the working day.
- Throughout the day operators are vigilant in checking vulnerable areas like exhausts and engine bays.
- Specialist contractors are used to perform maintenance outside the scope and expertise of the site management and operatives.
- All documentation relating to plant and equipment maintenance is retained in the site office for inspection.

3.4 Noise Complaint Investigation

It is understood that an Issue Management System ('IMS') is not currently implemented.

Therefore, this should be completed by a site manager and should include a site diary, plus forms and records of complaints. Further to this, a complaints procedure should be implemented; this procedure would need to allow for all complaints, feedback and requests made by third parties regarding the site's operational activities, as well as the health and safety performance or quality of service/product.

A phone number for the head office should be available online (it is understood that this available) to allow for any member of the public to lodge a complaint without entering the operational site. The operations manager will be specifically assigned to deal with complaints.

All complaints received from third parties including statutory authorities, statutory consultees, members of the public and representatives of the company will be forwarded to the operations manager to action as below within 2 hours (where feasible). The complaint will be logged in the incident database within 72 hours.

The operations manager will ensure that:

- The complaint is investigated to identify the cause, if necessary, this may involve direct communication with the complainant.
- The noise source will be measured using a class 2 sound level meter and compared with monthly objective monitoring records.
- In the event of elevated noise being detected, the presence of 'abnormal' onsite activity is assessed and if necessary, action is taken immediately to prevent a reoccurrence of the same problem. These actions must be documented.
- The complainant will be contacted and given information on the investigations conducted and actions taken as appropriate.
- All complaints are reported to regional directors and discussed at site meetings.
- Details of other complaints are sent to the other company personnel as appropriate.

If the investigation indicates that the complaint has not been justified this will be clearly recorded on the incident report. All complaints will be logged.

3.5 Reporting Measures

In the event of elevated levels of noise being identified, the event will be reported into the IMS by a member of operational staff. Upon notification of an environmental incident, the site manager will complete an incident reporting form. The completed form is then distributed throughout the company for review at operational, management and health and safety meetings.

All performance failures will be categorised for input into the IMS as follows:

- Minor event: quick fix possible, locally resolved.
- Medium event: brief disruption to service, management intervention required.
- Major event: significant disruption to service.

Each non-conformance category must have a given deadline for rectification. The deadline for each category is:

- Minor Event: within 24 hours
- Medium Event: within 6 hours
- Major Event: within 1 hour

The IMS/EHS will record any actions taken to rectify the issue, ensure that any necessary actions or review are recorded onto the IMS/EHS and ensure that the person reporting the incident is notified. The site manager will investigate the performance failure within a reasonable time frame (ideally 2 hours). Once the issue has been resolved, the corrective action will be entered onto the system, and the issue will be closed.

Appendix A – Acoustic Terminology

A-weighted sound pressure level, L_{pA}	Quantity of A-weighted sound pressure given by the following formula in decibels (dBA). $L_{pA} = 10 \log_{10} (pA/p_0)^2$. Where: pA is the A-weighted sound pressure in pascals (Pa) and p_0 is the reference sound pressure (20 μ Pa)
Background Sound	Underlying level of sound over a period, T , which might in part be an indication of relative quietness at a given location
Equivalent continuous A-weighted sound pressure level, $L_{Aeq,T}$	Value of the A-weighted sound pressure level in decibels (dB) of a continuous, steady sound that, within a specified time interval, T , has the same mean-squared sound pressure as the sound under consideration that varies with time
Facade level	Sound pressure level 1 m in front of the facade
Free-field level	Sound pressure level away from reflecting surfaces
Indoor ambient noise	Noise in a given situation at a given time, usually composed of noise from many sources, inside and outside the building, but excluding noise from activities of the occupants
Noise Criteria	Numerical indices used to define design goals in a given space
Noise Rating (NR)	Graphical method for rating a noise by comparing the noise spectrum with a family of noise rating curves
Octave Band	Band of frequencies in which the upper limit of the band is twice the frequency of the lower limit
Percentile Level, $L_{AN,T}$	A-weighted sound pressure level obtained using time-weighting “F”, which is exceeded for $N\%$ of a specified time interval
Rating Level, $L_{Ar,Tr}$	Equivalent continuous A-weighted sound pressure level of the noise, plus any adjustment for the characteristic features of the noise
Reverberation time, T	Time that would be required for the sound pressure level to decrease by 60 dB after the sound source has stopped
Sound Pressure, p	root-mean-square value of the variation in air pressure, measured in pascals (Pa) above and below atmospheric pressure, caused by the sound
Sound Pressure Level, L_p	Quantity of sound pressure, in decibels (dB), given by the formula: $L_p = 10 \log_{10} (p/p_0)^2$. Where: p is the root-mean-square sound pressure in pascals (Pa) and p_0 is the reference sound pressure (20 μ Pa)
Weighted sound reduction index, R_w	Single-number quantity which characterizes the airborne sound insulating properties of a material or building element over a range of frequencies



NOVA
ACOUSTICS