NOISE MANAGEMENT PLAN

EA Permit:
EPR/TP3824LZ/A001

Asphalt Recycling Facility,
Coxhoe Quarry

R25.12444/NMP/1/IK
Date of Report: 5 December 2025

REPORT DETAILS

Client	Tarmac Trading Limited
Report Title	Noise Management Plan – Asphalt Recycling
Site Address	Coxhoe Quarry, Coxhoe, County Durham. DH6 4BB
Report Ref.	R25.12444/NMP/1/IK
Vibrock Contact	vibrock@vibrock.com

QUALITY ASSURANCE

Issue No.	Issue Date	Prepared By	Technical Review
1	05/12/25		
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Site Details

Site Name: Asphalt Recycling Facility, Coxhoe Quarry Asphalt Plant

Site Address: Coxhoe Quarry, Bradyll Street, Raisby Hill, Durham, DH6 4BB

Operator Name: Tarmac Trading Limited

Permit Number: EPR/TP3824LZ/A001

Who is this Plan For

This plan is for the management team, employees, visitors to the site (contractors) and the Regulatory Officer of the Environment Agency.

Document Owner

Document Author: Vibrock Limited

Version Number: 001

Revision Number	Revision Authorised by	Date submitted to Environment Agency	Revision Owner
1	IK		

This Noise Management Plan (NMP) has been prepared by Vibrock Limited on behalf of Tarmac Trading Limited and forms part of the management documentation for the site and its operations. The NMP includes details of how noise from the on-site activities will be minimised and controlled and includes a noise complaint investigation procedure.

Once the NMP has been approved, it shall be fully implemented for the lifetime of the development.

1.0 INTRODUCTION

1.1 Site Description

1.1.1 Tarmac Trading Limited operate an Asphalt Recycling Facility for the receipt, processing and storage of road planings and returned asphalt.

1.1.2 The site is located approximately 9km southeast of Durham and approximately 500m south of the village of Kelloe, County Durham. The wider quarry area is largely surrounded by open and agricultural land, with isolated dwellings and industrial and commercial premises.

1.1.3 The permit allows the annual throughput of up to 250,000 tonnes per annum of waste material and allows for the continued operation of an Asphalt Recycling Facility at the Site with a greater capacity.

1.1.4 The operating periods as detailed within the Environmental Permit are reproduced below.

- Processing waste material during the daytime hours only.
- Receipt of waste material 24-hours per day.

1.2 Maintenance and Review of the Noise Management Plan

1.2.1 The Technically Competent Manager is responsible for the Noise Management Plan (NMP). The NMP will be stored at:

Coxhoe Quarry Asphalt Plant
Bradyll Street
Raisby Hill
Durham
DH6 4BB

1.2.2 The NMP is a live document and subject to review after every 2-years of operation. This NMP will be maintained and implemented for the duration of the operation of the site unless the Environment Agency determines it should be reviewed. Following such notification this document will be reviewed and revised accordingly within 1 month of notification or any other approved timescale. The revised NMP will be implemented from the date it is approved and will replace any previously approved NMP at the site.

1.2.3 The NMP will also be progressively developed if operational noise management requirements change over time, or as a matter of course if any of the following apply:

- A justified complaint of noise is received.
- If new plant is brought on site.
- If new working procedures are planned.
- If additional wastes are to be accepted on site.
- Unforeseen issues become routine.

1.3 Staff and Visitor/Contractor Briefing

1.3.1 All staff are to be made aware of the content of this NMP through regular training and that contractors and visitors to site are made aware through site induction. This is to ensure all personnel are aware of their role and responsibilities in ensuring noise is kept to a minimum at all times.

1.3.2 The Technically Competent Manager will oversee delivery of site staff training and visitor/site contractor induction. As part of the training site staff and contractors should be made aware of the following:

- Proper use and maintenance of tools and equipment.
- Noise emitting plant to be located so that it has the least amount of noise impact on the nearest noise sensitive receptors.
- Avoid unnecessary noise when carrying out manual operations and when operating plant and equipment. i.e., turn plant off when not in use, avoid unnecessary use of horns other than for safety reasons.
- Make site staff aware of the normal working hours and if required inform the Technically Competent Manager and EA of any significant requirement for out of normal working hours operations.

1.4 Noise Complaint Procedure

1.4.1 In the event of the receipt of a justified noise complaint (as determined by the Technically Competent Manager) the Technically Competent Manager will undertake the procedure described in Section 5.

1.4.2 The complaint will be reported to the Health, Safety, Environment, Energy and Quality (HSEEQ) Manager who will record and maintain a record of complaints of noise and the investigations associated with these complaints. This process is also detailed within the Management System Procedures.

1.5 Relevant Guidance

1.5.1 The relevant guidance notes referred to and informing this NMP are:

- Environment Agency Guidance: Noise and vibration management: environmental permits. 2022.
- Environment Agency Guidance: Noise and vibration management: environmental permit application guidance. 2025.
- Environment Agency Guidance: Method Implementation Document (MID) for BS 4142. Published March 2023 last updated December 2023.

1.6 Other Documents

1.6.1 Documents to be viewed in conjunction with this Noise Management Plan:

- Environmental Permit.
- Environmental Management System (TM.CH.0062.R02-A5).
- Environmental Risk Assessment.

2.0 RECEPTORS

2.1.1 The table below presents the nearest non-financially interested noise sensitive receptors to the site.

Receptor ID	Receptor Name	Distance from centre of site (metres)
R1	16 Station Road East	1,390
R2	Rose Cottage / The Bridge House	1,290
R3	East House Farm	726
R4	Sharon Avenue	608
R5	Bradyll Street, Kelloe	427
R6	Bradsway Cottage	522

2.1.2 The following figure illustrates the location of the nearest noise sensitive receptors to the site.

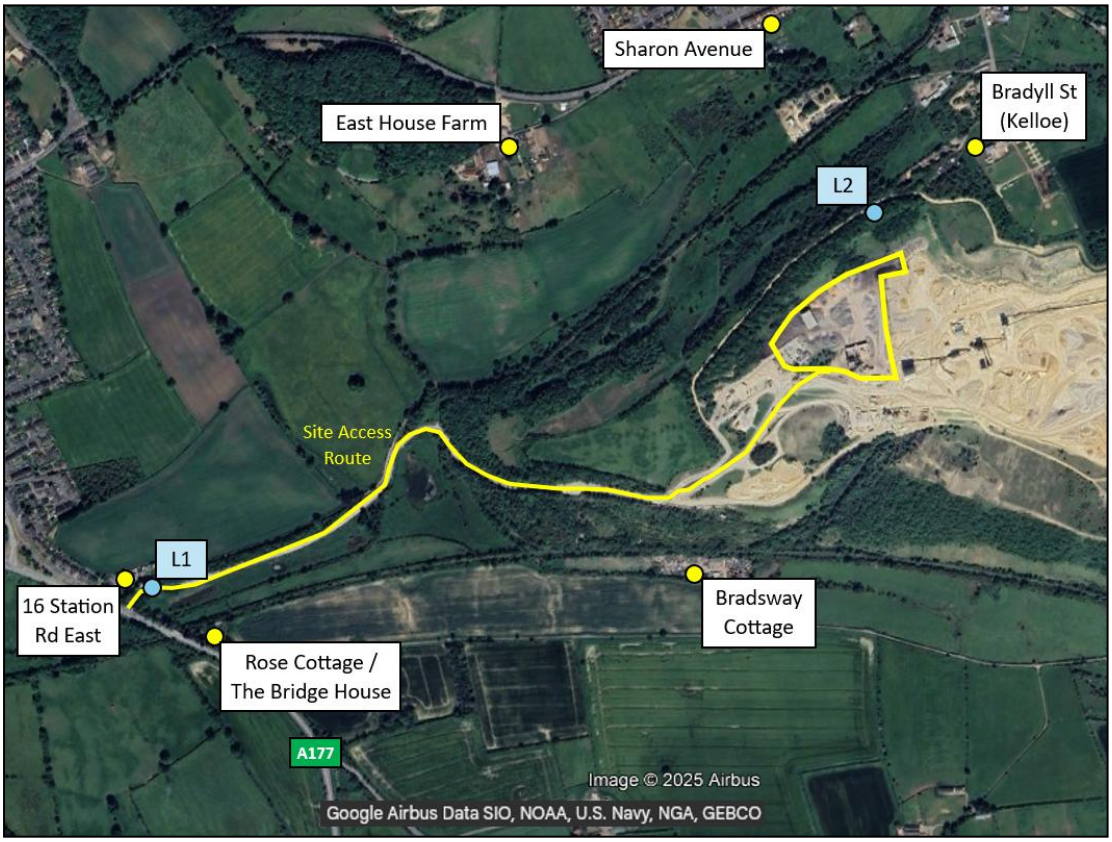

Figure 1: Nearest Noise Sensitive Receptors

3.0 NOISE SOURCES AND PROCESSES

3.1 Noise Impact Assessment (Ref: R25.12444-1-AP 07/04/25) Conclusions

3.1.1 Predictions of noise were undertaken at the residential receptors identified in Figure 1 for a daytime cumulative operational scenario and night-time deliveries. This included all plant on-site (fixed and mobile), and HGV movements including deliveries within the site boundary.

3.1.2 The assessment adopted the methodology in BS 4142:2014+A1:2019. During the day and night-time periods, a 'low impact' has been predicted at all the identified noise sensitive receptors (NSRs). It was concluded that the specific noise from the operations is likely to be lower than the prevailing residual sound level at each receptor.

3.1.3 The predicted free field absolute noise levels from the process during the day and night-time would not result in an excess of the external amenity criterion and the internal habitable room noise criteria at any time within any of the nearest NSRs.

3.2 Noise Sources

3.2.1 Table 1 details the main noise emitting plant and processes at the site that will be retained for the lifetime of the permitted operations, unless otherwise agreed in writing.

3.3 Overview of Noise Processes and Emissions

3.3.1 Material imported to the site would be subjected to a limited series of treatment activities involving breaking, crushing and screening.

3.3.2 Crushing will be undertaken at the site on a campaign basis. The processed material will be stored in stockpiles within a covered shed prior to being utilised within asphalt production.

3.3.3 Whilst the wider asphalt plant is a 24 hour operation typically taking place during the hours of 0600 – 1600 and 1900 – 0300, it is understood that RAP processing would only take place during the daytime (07:00 – 23:00 hours as defined in BS 4142).

3.3.4 There is however potential for night-time impacts during periods when RAP is being delivered to the site. RAP deliveries are not particularly routine and take place as required with rarely more than 10 deliveries per night when planings and returned asphalt is available to the site.

3.3.5 Figure 2 below illustrates the site layout, existing and proposed.

Figure 2: Site Layout

4.0 CONTROL MEASURES AND PROCESS MONITORING

4.1 Appropriate Measures / Best Available Techniques (BAT)

4.1.1 Sector Guidance Note S5.06: Recovery and disposal of hazardous and non-hazardous waste, Section 2.9 Noise, has been referenced in determining appropriate measures through the application of BAT for the control of noise and/or vibration at the installation.

4.1.2 BAT is similar in practice to the requirements of the statutory nuisance legislation which adopts the concept of Best Practicable Means as an approach to minimising noise nuisance.

4.1.3 The adoption of Best Practicable Means (BPM), as defined in Section 72 of the Control of Pollution Act 1974, is usually the most effective means of controlling noise from such sites.

Vehicle Movements Within the Site

4.1.4 The roads within the site will be maintained so as to be free from potholes or damage. This is to ensure that impact noise from vehicle movements is kept to a minimum. All drivers of vehicles visiting the site are reminded of their responsibilities with regard to potential for unnecessary noise generation and that best working/driving practices need to be maintained at all times.

4.1.5 The following details the best practice measures that will be employed on site:

- Give consideration to noise and local residents when approaching the site.
- Operate vehicles at low speeds when accessing the site and adhere to indicated speed limits whilst on site.
- Avoid heavy acceleration when exiting the site road onto the main highway where safe to do so.
- Avoid unnecessary use of horns other than for safety reasons.
- Drivers will be reminded that if reversing alarms are installed to vehicles, then reversing whilst on site will be kept to a minimum.
- Ensuring that vehicles do not park or queue for long periods in the vicinity of sensitive receptors with engines running unnecessarily.

Plant Operating in the Site

- Working outside of the times permitted in Section 1, Para. 1.1.4 will not be undertaken without prior notification.
- Careful planning of activities and selection of plant to reduce noise emissions.
- Using silenced equipment where possible.

- Vehicles and plant to be properly maintained and operated according to manufacturers' recommendations, in such a manner as to avoid causing excessive noise.
- Engine compartments should be closed when equipment is in use and the resonance of body panels and cover plates reduced through the addition of suitable dampening materials.
- Where practicable, rubber linings should be used on chutes, hoppers and conveyors, etc.
- Drop heights would be minimised when loading/unloading vehicles and hoppers.
- Ensuring plant machinery is turned off when not in use.
- Care to be taken regarding the need for reversing alarms, and where possible, install non-tonal alarms.
- The use of temporary acoustic barriers where appropriate should be considered if plant is likely to be visible above topographic features i.e. bunds and stockpiles.

4.1.6 Table 2.1 presents a summary of the actions and procedures for each plant item/activity on-site to achieve appropriate measures / BAT.

4.2 On-site Monitoring Procedures

4.2.1 Table 2.2 identifies the on-site monitoring procedures to be employed at the site.

4.3 Monitoring Off-site Sound Levels

4.3.1 To assist with noise management during the lifetime of the operations, and when investigating receipt of a justified complaint, noise compliance limits are proposed at the nearest noise sensitive receptors.

4.3.2 The operator will be required to comply with these limits and take actions to reduce noise from activities as far as it is reasonably practicable to do so in accordance with appropriate measures / BAT, if they are exceeded.

4.3.3 The compliance limits have been derived based on the typical background sound levels presented in the noise impact assessment report R25.12444/1/AP.

4.3.4 To ensure that operations will not result in adverse or significant adverse impacts at the NSRs, the plant and activities when assessed cumulatively should not exceed the prevailing background sound level (L_{A90}) during the daytime periods at the nearest noise sensitive receptors.

4.3.5 The compliance limits together with the typical background sound levels referenced from the Noise Impact Assessment are presented below for each of the nearest noise sensitive receptors.

Receptor Location	Period	Typical Background Sound Level, dB $L_{A90,T}$	Proposed Compliance Noise Limit dB $L_{Ar,T}$
16 Station Road East	Day	49	49
	Night	43	43
Rose Cottage / The Bridge House	Day	49	49
	Night	43	43
East House Farm	Day	44	44
	Night	40	40
Sharon Avenue	Day	44	44
	Night	40	40
Bradyll Street, Kelloe	Day	44	44
	Night	40	40
Bradsway Cottage	Day	44	44
	Night	40	40

4.3.6 Note that the limits in the final column above are rating levels and as such noise measurements or predictions should take into account the acoustic characteristics of the plant/machinery when perceived at the receptor. The limits are deemed to apply to the total noise emission level from the operations at the site.

4.3.7 It is considered reasonable to conduct the measurements/assessment at the location of external habitable spaces (for example gardens) but not in spaces that are not considered to be noise sensitive (for example bin store areas or driveways) of the receptors indicated on Figure 1.

4.3.8 The compliance levels presented in the final column represent a free-field noise level (a measurement location greater than 3.5 metres from a reflective surface other than the ground). If the measurement is undertaken within 1 metre of the dwelling (i.e., façade level) then the relevant measurement value should be reduced by approximately 3 dB.

4.3.9 Measurements and predictive work should be undertaken by a suitably qualified Acoustic Consultant. Environmental noise measurements should be undertaken with reference to the guidance set out in BS 7445:2003.

5.0 COMPLAINT INVESTIGATION PROCEDURE

5.1 Action Plan Following Receipt of Justified Complaint

5.1.1 In the event of the receipt of a justified noise complaint the following will be undertaken:

- The Technically Competent Manager will identify the source of the noise that resulted in the justified complaint. The activity suspected of generating the noise will be suspended and assessed by the Technically Competent Manager.
- If required, the Technically Competent Manager will undertake an investigation to determine the likelihood that the activity might generate further noise exceeding a compliance limit and in particular, higher magnitudes of noise.
- The Technically Competent Manager will arrange that the noise monitoring records are made available as soon as possible to the Environment Agency.
- If an exceedance of the limit is determined through measurement and prediction, the Technically Competent Manager will review the working methods and machinery to determine whether alternatives are available that will reduce the risk of recurrence.
- If better practicable means are available and judged necessary to eliminate the risk of recurrence of the noise during the working periods, works will not be recommenced until a revised method or substitute machinery has been put in place.

5.2 Information to be Recorded in the Event of a Justified Complaint

5.2.1 An example complaint recording form is included in Appendix A to be completed on receipt of a justified complaint.

5.2.2 The log shall include the following information:

- The name, address and telephone number of the complainant.
- The date and time the complaint was received.
- The nature of the complaint.
- Details of any action taken as a result of investigation into the complaint.

TABLE 1

Description of Noise Emitting Processes

Plant/ Activity	Octave band sound power levels (dB)								Sound Power Level dB(A)	Source Height relative to ground (m)	Co-ordinates (m)			On-time assumptions (relative to reference time interval)
	63	125	250	500	1k	2k	4k	8k			X	Y	Z	
RAP OPERATIONS														
Hydraulic Breaker	104.9	107.9	100.6	100.8	105.7	106.2	102.7	96.0	111	2.0	434028	535598	131	75%
Mobile Crushing and Screening Plant	117.1	116.2	107.6	102.4	97.6	95.1	91.2	85.7	106	2.5	434027	535576	133	100%
HGV Tipping into Stockpile	107.2	107.2	98.1	95.0	94.2	92.3	86.4	81.0	100	1.5	433958	535425	129	10%
Loading Shovel (RAP Processing)	105.3	104.6	99.2	96.7	96.5	95.0	93.4	83.1	102	2.0	434017	535571	133	25%
Loading Shovel (RAP Stock)	105.3	104.6	99.2	96.7	96.5	95.0	93.4	83.1	102	2.0	433925	535511	137	25%
HGV idling on Weighbridge	92.1	86.6	84.4	81.9	81.3	78.4	75.7	74.5	86	2.0	433892	535402	133	25%
HGV (RAP)	103.1	98.9	96.1	94.1	94.5	92.2	87.7	79.8	99	1.5	Line source			6 movements per hr Speed 20 mph

Plant/ Activity	Octave band sound power levels (dB)								Sound Power Level dB(A)	Source Height relative to ground (m)	Co-ordinates (m)			On-time assumptions (relative to reference time interval)
	63	125	250	500	1k	2k	4k	8k			X	Y	Z	
EXISTING ASPHALT PLANT OPERATIONS														
Loading Shovel (Hoppers)	105.3	104.6	99.2	96.7	96.5	95.0	93.4	83.1	102	2.0	433892	535402	133	25%
Loading Shovel (Stock)	105.3	104.6	99.2	96.7	96.5	95.0	93.4	83.1	102	2.0	433892	535402	133	25%
Asphalt Plant (Dryer)	110	110.2	103.2	100.8	98	93.2	87.9	81.3	103	3.0	434010	535438	129	100%
Asphalt Plant (Screen/Mixer/ Loadout)	117.1	113.5	114.7	105.1	100.7	97.6	97.6	97.2	110	5.0	434011	535429	131	100%
HGV idling on Weighbridge	92.1	86.6	84.4	81.9	81.3	78.4	75.7	74.5	86	2.0	433892	535402	133	25%
Mobile Plant Movements	105.3	104.6	99.2	96.7	96.5	95.0	93.4	83.1	102	2.0	Line source			10 movements per hr Speed 15 mph
HGV Movements (Asphalt)	103.1	98.9	96.1	94.1	94.5	92.2	87.7	79.8	99	1.5	Line source			8 movements per hr Speed 10 mph
HGV (Deliveries)	103.1	98.9	96.1	94.1	94.5	92.2	87.7	79.8	99	1.5	Line source			2 movements per hr Speed 10 mph

TABLE 2

Control Measures and Process Monitoring

Table 2.1

Actions and procedures in place to achieve appropriate measures / (BAT)

Noise Producing Activity	Operational Hours/Days	Control Measures (Appropriate Measure / BAT)	Contribution to Overall Impact	Action Taken if Outside Optimum Process Parameters
Hydraulic Breakers	Daytime	These plant items have the potential to be operated anywhere within the area allocated for RAP processing. The equipment will be operated by trained staff. Will be inspected daily and undergo servicing and maintenance as per manufacturer's recommendations.	Medium/Low	Plant / activity will cease and inspection will be undertaken to determine cause of elevated noise and/or vibration.
Mobile Crushing Screening Plant			Medium/Low	Plant / activity will cease and inspection will be undertaken to determine cause of elevated noise and/or vibration.
Asphalt Plant Dryer	All times	The equipment will be operated by trained staff. Will be inspected daily and undergo servicing and maintenance as per manufacturer's recommendations.	Medium/Low	Plant / activity will cease and inspection will be undertaken to determine cause of elevated noise and/or vibration.
HGVs	All times	On site roads and in parking areas. Will be operated by trained staff. Will undergo regular inspection and service and maintenance schedule as required for driving on public highways.	Low	Plant / activity will cease and inspection will be undertaken to determine cause of elevated noise.

Noise Producing Activity	Operational Hours/Days	Control Measures (Appropriate Measure / BAT)	Contribution to Overall Impact	Action Taken if Outside Optimum Process Parameters
Noise from loading hoppers and loading and unloading of vehicles in yard	All times	Machinery used for loading or unloading will be operated by properly trained personnel capable of operating the plant in a smooth and efficient manner. Reversing will be kept to a minimum where reversing alarms are fitted to vehicles. Vehicles not to be left with engines idling early morning and late at night. HGVs to be parked in allocated area so as to be screened where possible by solid structures onsite. Radios to be switched off when on site and care taken to avoid slamming vehicle doors.	Medium/Low	Revert to staff training and awareness of site procedures and NMP.
Maintenance / repair activities	As per para. 1.1.4	Maintenance / repairs to be carried out in a timely manner, during daytime hours. Maintenance checklist forms to be employed to ensure works are planned ahead.	Low	Revert to staff training and awareness of site procedures and NMP.
General site activities - Employees	All times	No shouting, whistling or horns to be used for signalling between vehicles other than where there is a requirement to do so for safety reasons.	Low	Revert to staff training and awareness of site procedures and NMP.

Table 2.2

On-site Monitoring Procedures

Description of Procedure	Procedure	When will this be carried out?	Corrective Action
Inspection of plant / machinery	Maintenance / repair activities	Following identification of fault resulting in an increase in operational noise from plant/machinery.	Fault will be identified and logged. Repair will be planned. Plant item will not be used until repair/maintenance complete.
Removal and replacement of old/faulty plant	Procurement of new equipment	Following inspection and/or when a justified complaint is received and no other remedial actions to mitigate noise from the plant are possible.	Replace with plant that is quieter or equivalent to existing plant sound power levels.
Inspection of structures on-site that afford acoustic screening to off-site receptors	Visual inspection of structure for holes, damage.	Weekly	Repair will be instigated and a record made in the site log.
General site activities	Employee behaviour	Daily	Revert to staff training and awareness of site procedures and NMP.

APPENDIX A

Noise Complaint Log Form

Noise Complaint Log Form	
Time & Date of Complaint	**Name & Address of Caller**
General Information & Event Details	
Details of complaint (including description of noise).	
Description of activities being undertaken on site at the time of the complaint.	
Description of any activities off site not associated with the development.	
Most likely cause of the complaint.	
Action(s) / Mitigation Measure(s) to be Adopted	
Feedback given to resident(s):	
Further Details	
Form completed by:	
Signature: Date:	