

National Tyre Recovery Ltd

Noise Management Plan

CONTENTS

1.	INTRODUCTION	1
	Roles and Responsibilities	1
	Site Description	1
	Site Plan	1
2.	SOURCES, PATHWAYS, RECEPTORS	2
	Source Materials - Inventory	2
	Pathways	2
	Receptors and Wind Direction	2
3.	PRIMARY NOISE CONTROL MEASURES	4
	Noise Releases	4
	Impacts	5
	Management of Releases	5
4.	MONITORING & TRIGGER LEVELS	8
	Introduction	8
	Communication	9
	Complaints procedure	9
5.	INCIDENTS AND EMERGENCIES	10
	APPENDIX A SITE PLAN – DRAFT	11
	APPENDIX B NOISE SURVEY FORM	12
	APPENDIX C NOISE COMPLAINT FORM	14

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1. INTRODUCTION

This document provides the Noise Management Plan prepared in accordance with Environment Agency Guidance¹ in support of a bespoke environmental permit application at National Tyre Recovery Ltd, B79 0JS. The application is for a variation From a standard rules permit to a bespoke permit allowing 20,000 TPA.

Tyres are treated by baling only.

- 1.1 It relates to the waste site operated by National Tyre Recovery Ltd, Stipers Hill Rd, Kisses Barn Lane, Warton, B79 0JS.

The operation will include the baling of tyres only

The overall responsibility for this procedure is the Environmental Manager. The Environmental Manager will be responsible for ensuring that all staff are trained in this procedure.

- 1.2 The Site Manager is responsible for ensuring that the day-to-day operations are carried out in accordance with this procedure.
- 1.3 All staff are responsible for implementing this procedure and have a duty to carry out their roles to prevent noise emissions.

Site Description

- 1.4 The site is located at B79 0JS in Warton. It is a rural industrial yard surrounded by farmland and agriculture with few immediate residential neighbours. The nearest is approx. 140m north east across on the same business park. There are few residential receptors within 500m.
- 1.5 A basic site layout is provided in Appendix A.
- 1.6 The company Environmental Management System (EMS) will be updated and revised accordingly as a living document as environmental and noise management develops

¹ H3 Horizontal Guidance Noise Management (IPPC H3 part2)

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2. SOURCES, RELEASES, IMPACTS

- 2.1 This section sets out the protection sources of noise, potential release points and receptors.

Source Materials - Inventory

- 2.2 Given the operations, it is considered that the activities which are most likely to give rise to noise are those in Table 1.

Activity	Description	Comments
Tyre Delivery onto site	Delivery of waste into the the site	Managed and timed
Baler	Baling of tyres inside building	Managed and timed
Vehicle movements	Movements of material onto and off of site	Managed and timed

Table 1 Source Activities

- 2.3 It is anticipated that the likelihood of noise being emitted from these activities is low on delivery or movement.

Pathways

- 2.4 The pathways by which the noises from the sources identified above may impact upon a receptor are primarily:

1. **Air** Movement of noise through air, particularly relevant on a site which will load/unload outside.
2. **Direct exposure.** Particularly for staff, they will be exposed immediately to any noises from the product handling on site.

Receptors and Wind Direction

- 2.5 The site is on a rural yard which means key receptors sensitive to noise are limited nearby businesses, staff and limited remote residential properties nearby.

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2.6 The nearest businesses are some 140m North East On the same industrial estate.

2.7 The key receptors are shown in Figure 1 below.

The prevailing wind direction in the area, where the site is located, is South-Westerly².

RECEPTOR	DISTANCE/DIRECTION	TYPE	OTHER
BUSINESSES ON ESTATE	240M/NE	COMMERCIAL	
FARM KISSES BARN LANE	440M/NE	FARM	
MOTO CROSS TRACK	450M/W	NOISY TRACK MX	
BIRCHES BARN MEADOW	650M/SE	SSSI	

Key Receptors

The receptors shown below are within 1km of the site (black circle below). Sensitive human receptors include areas containing residential properties & light industry all round the site are also shown above.

The site is in on a small industrial estate which is bordered all round by farming/agriculture. There is a SSSI, Birches Barn Meadow 650m SE.

Wind Direction

According to the UK Met Office, the prevailing wind direction in the area is South-Westerly³. This means the prevailing winds blow over the site to the north east, which is away from the bulk of the residential areas.

² <http://www.metoffice.gov.uk/climate/uk/regional-climates/so>

³ <http://www.metoffice.gov.uk/climate/uk/regional-climates/>

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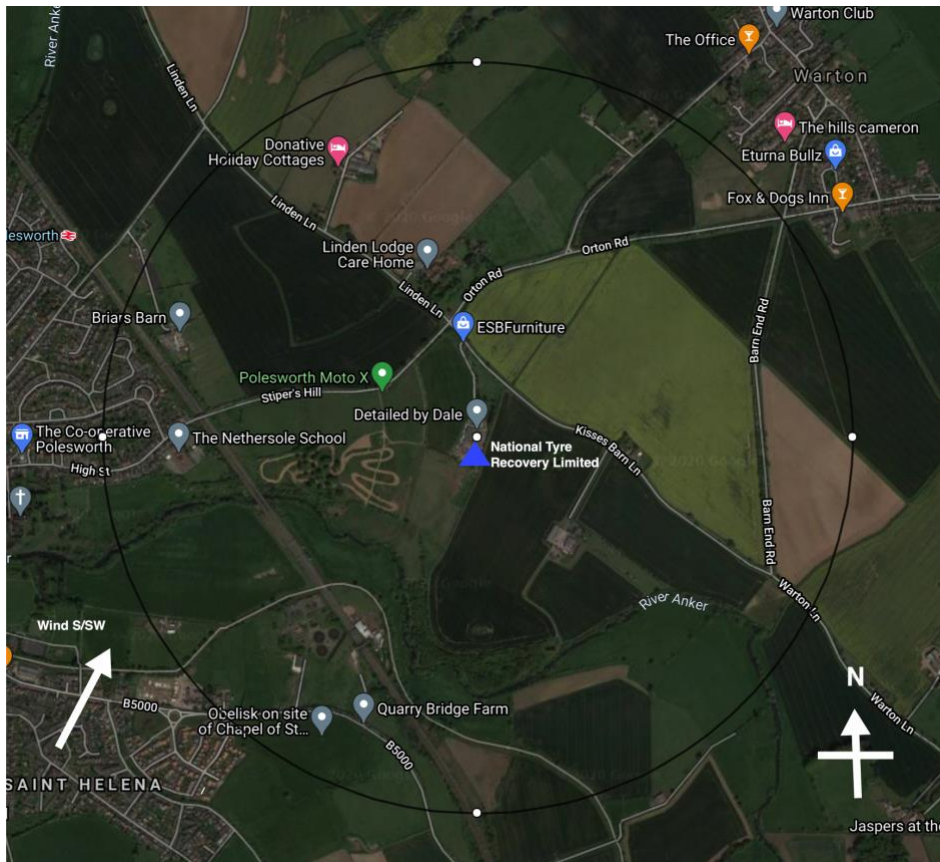


Figure 1: Site and Key Receptors

3. PRIMARY NOISE CONTROL MEASURES

- 3.1 The control measures set out in this NMP are commensurate with the low noise potential for the operations, in accordance with the statement to this effect in H3 Guidance
- 3.2 Noise can only cause an impact when it is perceived at a receptor site. This NMP has identified that the key opportunities for release of noises are anticipated to be:

1. When waste is delivered to site and removed.
2. When waste is loaded and unloaded.
3. When the baler process occurs.

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Noise sources on site:

- Vehicle/tyre delivery
- Baler
- Vehicle movements on-site

Impacts

- 3.3 The impacts of any noises released as a result of National Tyre Recovery Ltd's activities will be linked to the receptors identified in Section 1.
- 3.4 The receptors are more likely to be impacted upon by noise in the following conditions:
- Prevailing wind direction is towards receptors; and
 - Local weather conditions. Warm still weather will contribute to the perceived noise at receptors including staff on the industrial estate, school children and residents.
 - Cumulative impacts. It is anticipated that cumulative impacts will be minimal. The site is not in an area dominated by facilities which may cause additional noise.
- 3.5 The impacts of noise from the site are anticipated to be minimal, given the nature of the operation and the location within a rural setting. However, this will be confirmed regularly with monitoring and communication with neighbours.

Management of Noise

- 3.6 If noise monitoring or complaints indicate a problem, National Tyre Recovery Ltd Limited will respond appropriately. Management measures to control releases will include:
- **Reducing the loading/unloading time on site.** As part of the site's Management System, information on the loading/unloading on site will be recorded via operations, including arrival time on site. Minimal handling will ensure that noise is not exacerbated.

If the Site Manager deems that noise is causing a disturbance, the Site Manager will log this as an incident, using the appropriate forms from the Management System and will take corrective action

The site management will liaise with the contractors/hauliers and transport contractors, with a view to minimising the storage and transport periods for vehicle movements;

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- **Unanticipated noises.** Any unexpected noise shall be recorded as to composition, date and time received and cause of noise
- **Timing of loading/unloading.** Site Manager observes that the prevailing wind direction is will not create noises towards the direction of sensitive receptors or when winds are light and noise will be reduced.
- **Containment and abatement.** Given the nature of the operations on site, it is not considered necessary to implement containment and abatement techniques, other than those mentioned here. However, this is a 'live' document and as such will adapt if noise issues arise which are not managed by the actions in this NMP.

Noise Mitigation Strategy

The strategy will include the following:

hours,

Monday to Friday;

- ☐ Minimise drop heights of materials; and
- ☐ All mobile plant with be fitted with broadband type reverse alarms to minimise any tonal noise characteristics (e.g. Brigade bbs-tek white noise reversing alarm).

Further mitigation measures to reduce the noise impact of the proposed recycling site have been outlined below and would be adopted by National Tyre Recovery as a further demonstration of best practice.

The site operator will select the use of inherently quiet plant where appropriate. Such machines may be fitted with properly lined and sealed acoustic covers which would be kept closed whenever the machines are in use. The site operator will continue to implement their policy of replacing older machinery with new, quieter machinery as it becomes available and as the business development allows.

Plant generating noise emissions which are known to be particularly directional should, wherever practicable, be orientated so that the noise is directed away from receptors.

All plant will be operated in a proper manner with respect to minimising noise emissions, for example, no unnecessary revving of engines, switching off plant not in use, etc.

Good site management is also an effective method of reducing the potential impact of the waste recycling operations. National Tyre Recovery Ltd management will aim to be proactive, to anticipate when potential noise problems may occur and to take the necessary preventative action. Site noise mitigation

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measures would be regularly reviewed and where appropriate, new equipment and/or practices implemented.

All equipment will be routinely monitored to ensure that it does not become louder with age. All equipment will be serviced and maintained as per manufacturers specification to ensure it is operating efficiently. Any defective equipment will be fixed immediately and noise levels from all plant will be checked on a quarterly basis with hand held equipment.

The site has a Planned Preventative Maintenance Programme to ensure all machinery and infrastructure continue to remain effective.

There is a programme of routine planned maintenance is for each item of plant and machinery to manufacturers specifications, as well as the processing equipment in order to prevent breakdown and faults which may pose a fire risk. The schedule of maintenance applies to the bund, lagoon and other elements of site infrastructure.

Limited Electrical equipment including CCTV, lights will be used at the site.

A PAT certificate will be provided to demonstrate that this equipment has been checked by a qualified electrician. A PPM schedule and maintenance contract will be in place to ensure that electrical equipment & plant is fit for purpose and to minimise the risk of ignition sources.

All faults needing corrective action will be reported to the Maintenance Manager to be implemented. Issues with the noise bund will be dealt with immediately as it is such an important noise & dust mitigation element. It will be kept at it's current integrity and height by ongoing maintenance. Any failure will result in cessation of activities at the site.

For contingency, National Tyre Recovery Ltd recognises that if needed to ensure a continued material throughput, machinery will be hired from specialists if a significant plant breakdown occurs. This is to ensure continued effective operations and prevent excessive storage of materials which are likely to give rise to the exceeding of permitted waste quantities.

Activity which produces noise	Operational Hours / days	Control measures (Appropriate Measure / BAT)	Contribution to overall impact	Action taken if outside optimum process parameters
Delivery	Intermittent as required during working hours	Reducing the loading/unloading time on site.	medium	Cease operation and investigate reasons for elevated sound levels.
Baler	0700-1800 Monday-Friday	Restriction of use of the baler	medium	Cease operation and investigate reasons for elevated sound levels.

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Mobile plant	0700-1800 Monday-Friday	All mobile plant with be fitted with broadband type reverse alarms to minimise any tonal noise characteristics (e.g. Brigade bbs-tek white noise reversing alarm).	medium	Cease operation and investigate reasons for elevated sound levels.
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4. MONITORING & TRIGGER LEVELS

Introduction

- 4.1 To ensure that the noise control measures set out in Section 3 are being effective, National Tyre Recovery Ltd will ensure noise monitoring is in place and communication with potential receptors is maintained.
- 4.2 The following monitoring activities are regularly undertaken to ensure continuous improvement:
- Site inspections by the site manager (as outlined below)
 - Site audits conducted by the company's management;
 - Site audits and inspections by the Environment Agency.
- 4.3 All site personnel will be responsible for reporting any noise problems immediately to the site manager (or deputy).

Noise monitoring

- 4.4 The Site Manager will ensure that regular inspections are made of the site and its perimeter in order to identify any sources of noise and to establish whether any noise is discernible at the perimeter and thus likely to impact upon receptors.
- 4.5 In the event that noise is detected at the site boundary, additional monitoring will be undertaken at the sensitive receptors in accordance with Appendix B.
- 4.6 An auditory test will also take place in response to complaints. The surveyor will undertake the survey at the location of the complaint and at potentially sensitive receptor locations in the vicinity downwind from the site. At each location observations are made concerning the intensity of the noise, its persistence and character (these details will be logged in the pro forma, see Appendix C).
- 4.7 The surveyor may be the site manager or alternatively a staff member from the office or external person who is not used to the noises on the site.

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- 4.8 **Trigger Levels.** If noise is detected at the assessment location and is judged to be a moderate or unacceptable noise, as defined in reference Table A - Appendix B, then the Site Manager and Management Team will be informed immediately and corrective actions will be determined and implemented.
- 4.9 Monitoring Frequency will be in accordance with Table 2

Technique	Frequency
Noise Monitoring / Auditory Testing	Weekly at site perimeter. Noise detection will lead to receptor monitoring. Increase frequency in response to complaints
Complaints system	Continuous (24 hours) via telephone reporting system to Environment Agency Direct complaints to site in operational hours

Table 2 Monitoring Frequency

Communication

- 4.10 **Liaison with neighbours.** If noise is anticipated on site or weather conditions predicted indicate noises will increase, the Site Manager will liaise with neighbours and ensure they are aware of the situation, how long it is expected to last and how to make a complaint.
- 4.11 **Signboard.** The site will have a legible signboard giving contact details for the Environment Agency and the operator. These numbers can be used in order to make a complaint.

Complaints procedure

- 4.12 All complaints, whether direct from people in the neighbourhood, or via the Environment Agency will be treated seriously by National Tyre Recovery Ltd and recorded in the Noise Complaints Form in Appendix C. Complaints are dealt with immediately and recorded in the site diary. A response is fed back to the complainee within 24 hours as to the cause and proposed mitigation to be put in place. A written record of all communication is entered into the site diary.
- 4.13 **Trigger Levels.** National Tyre Recovery Ltd recognise that persistent noise can be a concern for neighbours and particularly for residential areas. Every complaint is a trigger for management to take action to investigate the cause of a complaint, as set out in the Noise Complaints form.

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5. INCIDENTS AND EMERGENCIES

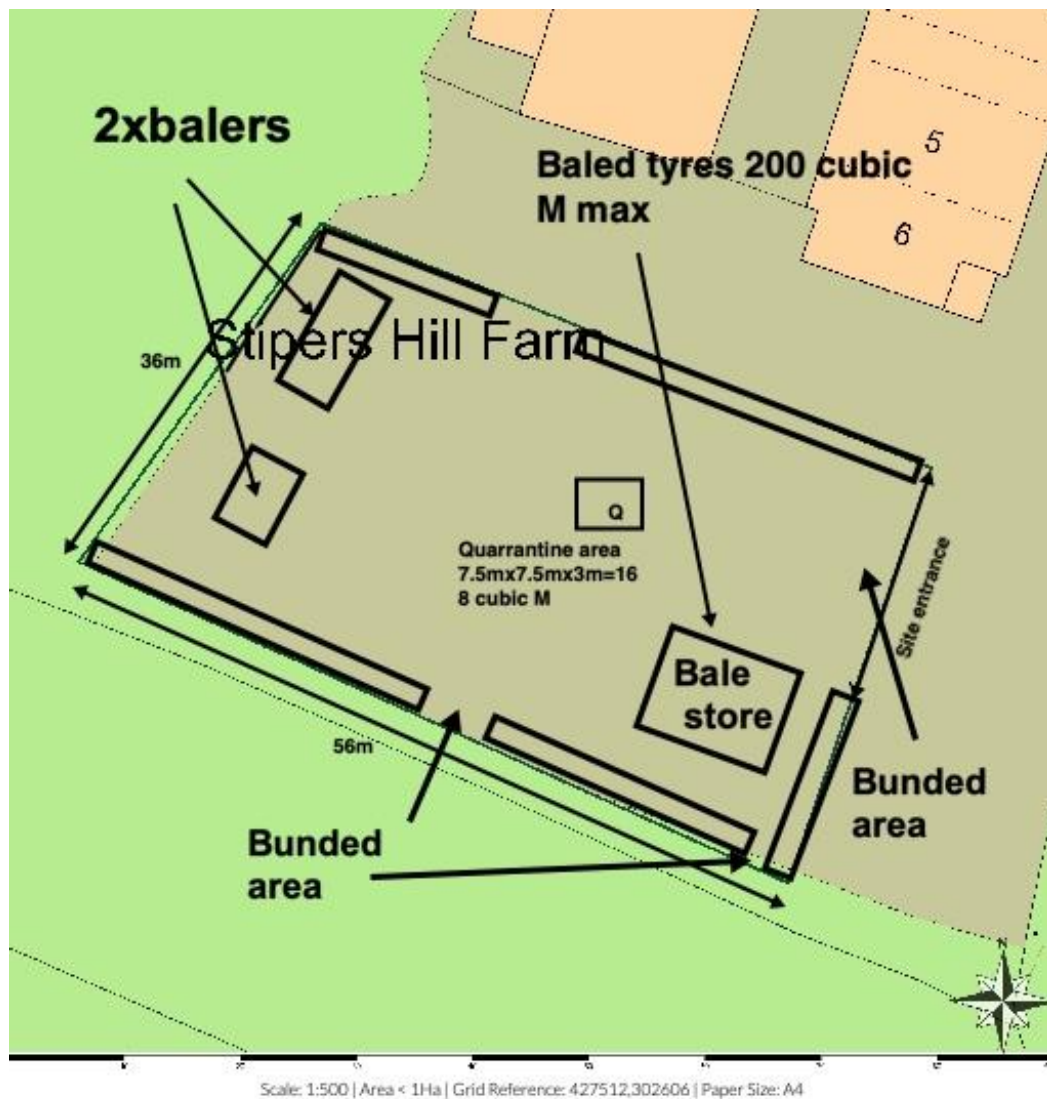
5.1 This section of the NMP relates to potential incidents or emergencies which may impact on the ability of National Tyre Recovery Ltd to control noise from its site.

5.2 Potential incidents which may impact on noise are outlined as follows:

Potential Incident	Actions
Unexpected noise in loading or unloading	The Site Manager will: • Communicate with local receptors on expected duration if excessive. • Record start/stop timings • Record the incident in the site diary and using the appropriate management system forms and records.
Low wind/still conditions	If noise monitoring detects a problem, the site manager will: • Ensure handling is kept to a minimum • Record the incident in the site diary and using the appropriate management system forms and records.
Unexpected noise during out of hours. Unlikely.	The site manager will • Investigate the cause of the noise • Identify if it can be rectified immediately • Notify local receptors as soon as practical • Records the incident in the site log

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APPENDIX-A



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APPENDIX B NOISE SURVEY FORM

Noise Survey Recording Form		Reason for Noise Survey	<i>Noise detected at boundary? Y/N</i> <i>Complaint Y/N</i> <i>Other</i>
Name of Surveyor		Job Title	
Date		Time of Survey Start/Finish	
Air Temp. °C		Wind Direction	

Survey Results

Location	Noise Intensity <i>See Reference Table A</i>	Noise Extent <i>See Reference Table B</i>	Description of noise <i>e.g. intermittent, ongoing?</i>

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Reference Table A: Noise Intensity

Noise Intensity	Description
1	No detectable noise
2	Faint noise (barely detectable, need to stand still and look into wind)
3	Moderate noise (noise easily detectable while walking, possibly offensive)
4	Loud noise (bearable, but offensive noise)
5	Very loud noise (this is when you really wish you were somewhere else)

Reference Table B: Noise Extent

Noise Extent	Description
1	Local and not persistent (only detected during brief periods when wind drops or blows)
2	Not persistent as above, but detected away from site boundary
3	Persistent but fairly localised
4	Persistent and pervasive up to 50m from site boundary
5	Persistent and widespread (noise detected >50m from site boundary)

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APPENDIX C NOISE COMPLAINT FORM

Complainant Details	
Time and Date of Complaint	
Complainant Name & Address	
Complainant Phone Number/ Email address	
Noise Details	
Date noise noticed	
Time noise noticed	
Location of noise (if not address above)	
Wind Direction (e.g. From South West)	
Complainants Description of Noise:	
-What does it sound like	
-Intensity (see reference Table A, Appendix B)	
Duration – how long was it detected for	
Constant/intermittent in this period	
Complainant comments/observations	
Additional Information	
Are there other complaints from this area?	
Is the site the likely source of noise?	
What was happening on site when the noise occurred?	
Corrective Actions	
Actions Required	
Deadline for Actions	
Person Responsible for implementing actions	
Form completed by -Name and Role	
Date	
Signature	