



Noise & Vibration Management Plan

TeleCycle Europe Ltd



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SITE DETAILS

TeleCycle Europe Ltd,
Unit 1 Redwither Business Park,
First Avenue,
Wrexham,
LL13 9XP

OPERATOR DETAILS

TeleCycle Europe Ltd,
Unit 15,
Drome Road,
Deeside Industrial Park,
Deeside,
CH5 2NY

APPLICATION REFERENCE

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APPENDICES

APPENDICES	TITLE	REFERENCE
Appendix A	Wrexham Telecycle Permitting Noise Impact Assessment	PA1275 -R02-P02
Appendix B	Complaints Form	-
Appendix C	Daily Environmental Log	-

1. INTRODUCTION

This document is the Noise & Vibration Management Plan (NVMP) that accompanies the application for a Bespoke Environmental Permit for an Installation Waste Operation (Tier 3 Bespoke Installation Permit), as confirmed in the pre-application request (PPN-01526) at TeleCycle Europe Ltd, Unit 1 Redwither Business Park, First Avenue, Wrexham, LL13 9XP. The site is located at national grid reference SJ 38320 50209.

The application has been prepared by Wiser Environment Limited on behalf of the applicant TeleCycle Europe Ltd.

The site will operate in addition to their already permitted facility at Drome Road (EPR/CB3896ZW).

Operations will fall under:

- Section 5.3 Part A (1) a) (ii) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day, physico-chemical treatment;
- Section 5.4 Part A (1) b) (iv) – Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day, treatment in shredders;
- Section 5.6 Part A (1) a) - Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending any of the activities listed in Sections 5.1, 5.2, 5.3.

Activities will primarily involve the treatment of WEEE, shredding various WEEE products, sorting the subsequent fractions, prior to dispatch to further processing facilities, both domestically and internationally. Material for shredding will primarily be made of low-grade PCBs, modems, PCs, power supplies, power boards and small domestic appliances. Should other materials prove viable for shredding they may serve as input, but all wastes accepted will be in accordance with the List of Wastes (K419.2~09~008).

Site shall also accept copper cable for shredding, then subsequently bulked prior to shipment for refining or onward recovery.

Some WEEE will be accepted onto site for bulking prior to dispatch to appropriate re-processors. Site will also operate a manual dismantling operation which will take WEEE items too large or unsafe for shredding and separate into valuable components that can serve as feedstock for the shredder or alternatively mixed with output from the shredding process.

The Environmental Risk Assessment (K419.2~09~003) (Section 04 of the Permit application pack) concludes that potential risk of noise and vibration from the operation is Low. This conclusion is supported by the Noise Impact Assessment (Appendix A).

This NVMP identifies potential noise issues and proposes mitigating measures to effectively manage noise emissions from the site. The NVMP should be read by the Technically Competent Manager (TCM), site staff, contractors working on site, and the Environment Agency (EA).

1.1. Site Description



Figure 1 Aerial image of the site, showing the permit boundary in green.

The site is located within an established industrial area in Wrexham, situated approximately 4.65 km from the city centre. The site is accessed via several local roads; the closest main road is A534 and is situated approximately 1.9 km north of site. Outside of the immediate commercial land use, the estate is surrounded by agricultural land.

The site is approximately 0.75 ha, underlain with an impermeable surface and equipped with two warehouse buildings, a canopy area and a yard area for loading and unloading. As part of waste operations, storage bays are to be constructed from legio block walls within the yard area.

Site infrastructure comprises of the following:

- Entrance gate;
- Weighbridge
- Warehouses for treatment and storage operations
- Canopy storage area

- Storage bays
- CCTV cameras, spill kits, fire extinguishers and first aid kits; and
- Office and amenities.

1.2. Maintenance & Review of the NVMP

The TCM is responsible for the NVMP and ensuring that people are trained. The plan is stored in the site office, with an electronic back-up. The NVMP will be reviewed annually or following a substantiated emissions complaint.

All personnel shall be trained in the procedures for which they are responsible, including any reporting and contingency procedures. Records of all training shall be maintained and reviewed in accordance with TeleCycle Europe Ltd's written Management System.

All staff or contractors working on site must not undertake any work for which they are not competent – except under the careful instruction and supervision of a competent person.

Site specific inductions must include relevant aspects of the health and safety, environmental and quality policies, documentation, risk assessments, and emergency procedures. Further training will be provided if skills decline when not used regularly, and refresher training will be provided as necessary to ensure continued competence. Information from personal performance, health and safety monitoring, accident investigation and near-miss incidents are to be used to identify any gaps in skills and competence.

1.3. Relevant Sector Guidance

This NVMP has been produced in accordance with the following guidance:

- Control and monitor emissions for your Environmental Permit¹
- Noise and vibration management: environmental permits²

¹ Control and monitor emissions for your environmental permit - GOV.UK (www.gov.uk), updated 3 December 2025

² [Noise and vibration management: environmental permits - GOV.UK \(www.gov.uk\)](http://www.gov.uk), updated 31 January 2022

2. RECEPTORS

2.1. Receptor List

A receptor is the object (e.g., person, organism, resource, or property) impacted by a hazard. For example, noise may cause offence to a human (the receptor). When identifying receptors which may be at risk from the site, the following have been considered:

- Ancient woods
- Locations used to grow food or to farm animals or fish
- Drain and sewer systems
- Factories and other businesses
- Fields and allotments used to grow food
- Footpaths
- Roads and railways
- Groundwater beneath the site
- Homes, or groups of homes
- Playing fields and playgrounds
- Private drinking water supplies
- Regionally important geological sites
- Schools, hospitals, and other public buildings
- Water
- Conservation areas, habitats, and protected areas and areas of scientific interest

Sensitive receptors within 2 km of the permit boundary are shown on the Site Setting Plan (K419.2~20~005). The IDs on the Site Setting Plan correspond to the Receptor List (Table 1) below, which reports receptors within 1 km of the site.

Table 1 Sensitive Receptor List (1 km)

RECEPTOR TYPE	ID	DESCRIPTION	DISTANCE (M)	DIRECTION	SENSITIVITY TO NOISE
HUMANS AND PROPERTY	-	Site Workers	On site	-	High
	-	Site Visitors	On site	-	High
	INHABITANTS OF RESIDENTIAL PROPERTIES				
	1	Residential house N bryn Lane	650 m	NNE	Medium
	2	Bryn Lane houses + gardens	750 m	SE	Low
	3	Residential houses on Hugmore Ln	845 m	NNW	High
	SENSITIVE PUBLIC USE				
	1	Wrexham Borough Council Building	635 m	SSE	Low

RECEPTOR TYPE	ID	DESCRIPTION	DISTANCE (M)	DIRECTION	SENSITIVITY TO NOISE
	COMMERCIAL USE				
	1	North-East Wrexham industrial estate	0 m	NE	Medium
	2	South-East Wrexham industrial estate	5 m	SE	Low
	3	West Wrexham industrial estate	10 m	W	Low
	4	South Wrexham industrial estate	400 m	S	High
	5	North-West Wrexham industrial estate	675 m	NW	Low
	6	South-West Wrexham industrial estate	810 m	SW	Low
	7	Village Bakery	250 m	WSW	Low
	8	Robert Bryn Workshops, Limpet, Dragon Hydraulics, Link power trans	232 m	NNE	Medium
	9	Ecodek, Altaeros uk, Cool point	275 m	SSW	Low
	10	Cleardata Uk, Tradebe, Y1 furniture, Certas Energy	275 m	SE	Low
	11	Osacr Mayer, ACe Felt roofing Ltd, Toliets2go, Loweroal Top soil& aggregates	285 m	NE	Medium
	12	Kelloggs Wrexham	300 m	ENE	Medium
	13	Loweroak top soil&aggregates, M&J services, CMS ltd	335 m	NW	High
	14	Ardagh metal packaging	350 m	SW	Low
	15	Tritech Precision Products, Lloyds animal feeds, Entrec metal recycling	365 m	S	Low
	16	Wrexham Recycling Centre	370 m	ESE	Low
	17	Morleys Mazdas, S.G motors, F jones food services	500 m	SSE	Low
	18	Ecudcate group, Uk telematic-Vechile tracking	505 m	E	Low
	19	Wockhardt, Commercial-industrial buildings	510 m	N	Medium
	20	JCB Power Products, Dhollandia UK	515 m	NW	High
	21	Allied Fire alarms&Escapes	530 m	SE	Low
	22	Very Distributions, Littlewoods Home shopping Warehouse 2	600 m	E	Low
	23	Trade help, Shop direct, Proserve Logistics	620 m	ESE	Low
	24	JCB Transmissions-Parking	662 m	NNW	High
	25	ZF services, Brake engineering, Graham peters	675 m	SSW	Low

RECEPTOR TYPE	ID	DESCRIPTION	DISTANCE (M)	DIRECTION	SENSITIVITY TO NOISE
		joinery, Alans skip hire, Westrock			
	26	Net world sports-3PL	690 m	NE	Medium
	27	Sysensqo Ipsen Biopharm, Johnys Garage, Solvay	695 m	WNW	High
	28	Proserve Logistics, Annyalla Chicks Uk Ltd, Bodt Tech, Almetron, BBS, Extreritas	705 m	WNW	High
	29	Greggs, The Bridgeway Centre, Timber4you, Hydro Aluminium	730 m	SW	Low
	30	Prysmian, Wrexham Xmas shop, Steve slates, Premier	769 m	SE	Low
	31	SFL global Play, Owens Warehouse, Dearboy Petcare Ltd, Chrome NW Ltd, SpectrumBP	787 m	SSW	Low
	32	Higher OAK SAAB Garage	895 m	SE	Low
	33	Good time charlies, wrights Auto Services, Fleetsauce, Alan Rhone, RielloUPS Ltd	800 m	SE	Low
	RECREATIONAL AREAS				
	1	Abbey Road Meadow	128 m	N	Medium
	2	Foot tracks+pathways on Oak Road	675 m	SSE	Low
	3	Clays Touring Park, Clays Golf driving and range course	990 m	NW	High
	AGRICULTURAL				
	1	Agricultural flied S Bryn Lane	375 m	NNE	Medium
	2	Agricultural fields W Bryn lane N Very distribution	620 m	ENE	Medium
	3	Agricultural flieds N Bryn Lane, Ridley Wood road	635 m	NNE	Medium
	4	Agricultural flieds E of Erilas lane	806 m	NW	High
	5	Agricultural flieds N of Francis Lane	977 m	N	Medium
	CRITICAL INFRASTRUCTURE				
	ROADS AND RAILWAYS				
	-	A5156	690 m	E	Low
	PUBLIC RIGHTS OF WAY				
	-	Public footpath N of Abenbury Way	680 m	NNW	High
	-	Public footpath N of Shop direct	685 m	ESE	Low
	-	Public Footpath S of Redwither Rd	750 m	SSW	Low
	-	Public Footpath N of Ridley Wood Rd	900 m	NE	Medium
	-	Public Footpath W of Erilas Ln	1 km	W	Medium
WATER	SURFACE WATER				

RECEPTOR TYPE	ID	DESCRIPTION	DISTANCE (M)	DIRECTION	SENSITIVITY TO NOISE
ENVIRONMENTALLY SENSITIVE SITES	DESIGNATED SITES				
	NON-STATUTORY DESIGNATED SITES				
	1	Restored Ancient Woodlands Site	500 m	W	Medium
HERITAGE SITES	LISTED BUILDINGS, PARKS & SCHEDULED MONUMENTS				

2.2. Wind Rose & Weather Data

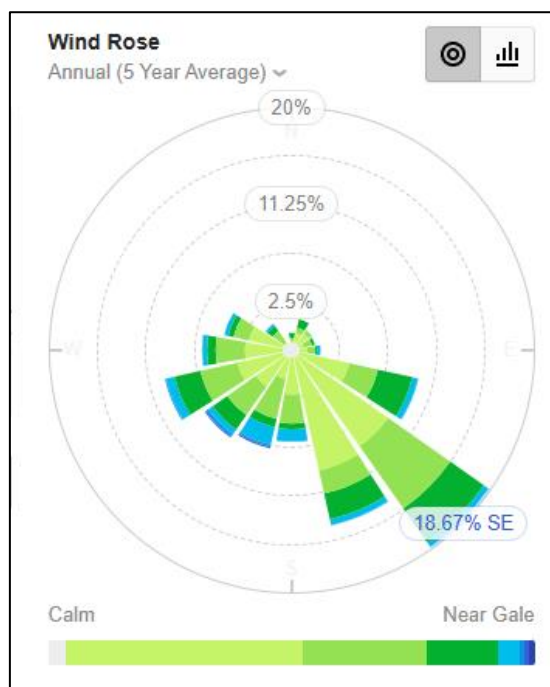


Figure 2 Hawarden wind rose. Annual 5-year average, (2020-2025) (willyweather.co.uk).

The closest observing station where wind statistic data is available is at Hawarden approximately 15km North of the permit boundary. Figure 2 presents the wind statistics on a wind rose as an annual average using data from the previous 5 years (2020-2025). The wind rose indicates that the sensitive receptors located towards the NW of the site are potentially at greatest risk from hazards transmitted through the air.

3. SOURCE OF EMISSIONS & SITE PROCESSES

The Environmental Risk Assessment (K419.2~09~003) (Section 04 of the Permit application pack) and Noise Impact Assessment (NIA) (Appendix A), identifies the following with the greatest potential for noise impact:

- Delivery of materials - HGV movement during loading and unloading
- Movement of equipment - Forklift movement
- Treatment process - Metal shredding and tipping

Table 2 Source Pathway Receptor

SOURCE	PATHWAY	RECEPTOR	IMPACT
Delivery of materials	Air & atmospheric dispersion	Industrial, commercial and residential properties	The initial noise impact assessment determined that due to the setback distance between the Site and the nearest residential receptor the noise impact was predicted to be low impact. The initial impact assessment at the two office receptors suggested a significant adverse impact. Overall, the disturbance at this location is within the background noise levels in the area hence the impact at the office receptors is also considered to be low.
Movement of equipment			
Treatment process			

3.1. Overview of Noise Emitting Processes

The following activities identified in the NIA and ERA have the potential to emit noise. The movement of heavy goods vehicles, loading and unloading of materials during the materials delivery process. The movement of equipment such as forklifts, shovel loaders etc, metal shredding and tipping.

Control measures have been put in place to mitigate against noise. These measures are listed below;

Operations are only carried out within permitted hours. Treatment procedures are all conducted internally. All equipment is periodically inspected and maintained in accordance with manufacturers' guidance and manuals, to ensure the plant and equipment is available for work when required and any noise control equipment controls noise effectively at all times.

The site is operated in accordance with written procedures incorporated within the TeleCycle's Management System. All procedures identify the potential hazards, include written instruction on how to undertake tasks and specify the required control measures (including PPE and safety equipment). Each procedure is accompanied by an activity risk assessment.

Table 3 Control of Noise Impacts

SOURCE	CONTROL MEASURE	DESCRIPTION
• Movement of equipment - Forklift movement • Treatment process - Metal shredding and tipping	Treatment processes are all conducted internally. The operations take place within an industrial site and the receptors are offices within industrial facilities which are currently exposed to industrial/commercial sound, and they have fixed windows offering a reasonable level of sound insulation.	The receptors are already exposed to sound of an industrial nature, and the assessed sound is not incongruous compared to the environment in which they are located. Due to the setback distance between the Site and the nearest residential receptor, sound from the Site at this receptor is predicted to be of low impact.
• HGV movements	Operations are only carried out within permitted hours (s 08:00 till 18:00).	Operations are only carried out within permitted hours (daytime only).

3.2. Ambient Noise Environment

Other potential sources of noise emissions exist in the locality. This includes activities from other industrial estates and vehicle movements.

The NIA identified the background noise levels from the survey carried out on 18th September 2025 at position SM1 to be at 48-50 dB $L_{A90,30mins}$ and 49-55 dB $A_{90,30mins}$ at position SM2.

3.3. Noise Impact Assessment Conclusions

The noise impact assessment followed the approach of BS 4142 including all relevant information in Environment Agency (EA) document Method implementation document (MID) for BS 4142 (December 2023) and the Environment Agency guidance Noise and vibration management: environmental permits (January 2022). The nearest residential receptor is 650m to the north, a dwelling off Bryn Lane, with offices within nearby commercial premises at distances of 50 and 60 metres from the Site. An attended background sound survey was undertaken to determine representative conditions at these receptors. Client provided data, manufacturer's datasheets, and library source sound data were used to create a noise model, which in turn predicted specific sound levels at the receptors. An initial noise impact assessment determined due to the setback distance between the Site and the nearest

residential receptor, sound from the Site at this receptor is predicted to be of low impact. The initial impact assessment at the two office receptors suggested a significant adverse impact. However, the receptors are offices within industrial facilities on an industrial site, currently exposed to industrial/commercial sound, and they have fixed windows offering a reasonable level of sound insulation. Considering this context, the noise impact at these receptors is also considered to be low. Limitations on the use of this report are contained in Appendix D.

4. CONTROL MEASURES & PROCESS MONITORING

4.1. Appropriate Measures

Table 4 outlines the monitoring procedures and appropriate measures to control noise impacts from the operation. The Technically Competent Manager (TCM), or nominated person, is responsible for the monitoring procedures and employing appropriate measures.

Table 4 Monitoring Procedures for Appropriate Measures

Process with noise emitting potential	Control measures (Appropriate Measures)	Monitoring frequency	Monitoring procedure and optimum process parameters	Trigger level	Action taken if outside optimum process parameters
• Movement of equipment - Forklift movement • Treatment process - Metal shredding and tipping	• Buildings have fixed windows offering a reasonable level of sound insulation. • Shredding operations are only undertaken within the permitted hours and within the building. • All plant and equipment shall be maintained in accordance with manufacturer's guidance.	• Daily site inspection.	• Plant and equipment are inspected and maintained in line with maintenance schedule set out by the manufacturer.	• NSR1 – 58 dB LAr, 1hr • NSR2 - 60 dB LAr, 1hr • NSR3 - 26 dB LAr, 1hr	• Façade insulation treatment • Ventilation and/or cooling that will reduce the need to have windows open to provide rapid or purge ventilation • Acoustic screening.
HGV movements	• Buildings have fixed windows offering a reasonable level of sound insulation. • Operations are only carried out within permitted hours.	• Daily site inspection.	• Operations are only carried out within permitted hours (daytime only)	-	Vehicles must adhere to specific speed limits on site

5. REPORTING & COMPLAINTS REPONSE

The Technically Competent Manager (TCM) is responsible for responding to complaints and implementing the complaints procedure. All complaints will be investigated within 24 hours upon receipt.

The complaints reporting procedure is detailed in the Management System Summary (K419.2~09~004) (Section 03 of the Permit Application Pack).

Upon receipt of a complaint, either directly from a neighbouring resident or indirectly via the Regulator. The following information will be requested from the complainant:

- Name;
- Address;
- Contact details;
- Date(s) and time(s) to which the complaint relates; and
- Nature of the complaint and any other details which may assist in the identification of the source, activity or circumstances which prompted the complaint.

The timings and description of the complaint will be analysed in conjunction with the activities and meteorological conditions logged on site without delay to identify the emission source. The complainant may be asked to keep ongoing log for correlation with the site operational log. Once the source or activity is identified suitable mitigation measures will be implemented without delay to prevent noise impact.

The details of the complaint and any subsequent investigation will be recorded in the Complaint Form (Appendix B) or other format with relevant information.

5.1. Complaints Reporting

Records relating to management review, complaints, internal audits and inspections are held for a minimum of six years.

All complaints will be acknowledged and investigated by the TCM, or nominated person, with resultant actions reported to the complainant and the Environment Agency.

5.2. Community Engagement

On receipt of a complaint, the TCM, or nominated person, will investigate the complaint to swiftly rectify the source.

Where contact details are made available, the complainant will be contacted within 24 hours to check that the mitigation measures rectify the issue.

Where additional time is required to undertake repair or replacement of infrastructure which has caused the complaint, the complainant will be contacted with details on the actions being taken and the estimated timescale for completion.

5.3. Pro-active Noise Monitoring

The TCM and site staff will monitor site conditions periodically throughout the day (at least twice). Any adverse observations, that are directly attributed to the site's activities, will be recorded and retained in the Daily Environmental Log (Appendix A).

5.4. Reactive Noise Monitoring

On receipt of a complaint, the TCM, or nominated person, will investigate the complaint to swiftly rectify the noise source. Checks on site and the permit boundary will be carried out by the TCM, or nominated person, to confirm that the mitigation measures rectify the issue.

6. ABNORMAL EVENTS

Table 5 Abnormal Events

Abnormal event	Recovery steps
Weather	Noise measurements to be taken in different weather conditions giving consideration to the wind direction.
Temperature	Extreme weather conditions such as freezing conditions or heat can affect the functionality of machines and vehicles
Equipment breakdown	Operation of the equipment is carried out exclusively by staff that are fully trained in safe working practices and the safety features of the equipment. Individual operators have access to the operation and maintenance manuals of the equipment they use. There will be a maintenance and inspection programme for static and mobile plant and equipment which will be strictly followed. All vehicles are fit with fire extinguishers, suitable dust filters where appropriate. The shredding system is equipped with a dust extraction system. When mobile plants are not in use, they are kept away from combustible waste
Accidents	Site is secured by fencing and gated. CCTV is monitored 24/7 and overlooks operational and storage areas. Appropriate training regarding process/plant operation and emergency procedures is provided to all relevant staff. Plant and equipment will be maintained in accordance with their maintenance schedules or when applicable. Accident prevention and management will be reviewed on an annual basis along with the Management System or following an accident.

7. APPENDICES

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Appendix A

(PA1275-R02-P02 Wrexham Telecycle
Permitting Noise Impact Assessment,
November 2025)

Appendix B

Complaints Form

Appendix C

Daily Environmental Log



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