



Non-Technical Summary



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SITE DETAILS

Murfitts Industries Ltd,
48 Hardwick Grange,
Warrington,
WA1 4RF

OPERATOR DETAILS

Murfitts Industries Limited,
Avenue One,
Letchworth Garden City,
SG6 2HU

PERMIT APPLICATION REFERENCE

TBC

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Figure 1	Aerial image of the site, showing the permit boundary in green
Figure 2	Flow diagram of the waste treatment process, from delivery to dispatch.

1. INTRODUCTION

This document is the Non-Technical Summary (NTS) (K18.14~09~001) that accompanies the application for a bespoke Environmental Permit at 48 Hardwick Grange, Warrington WA1 4RF. The site is located at National Grid Reference SJ 65032 90046.

This application is for an end-of-life tyre recycling facility accepting 35,000 tonnes of waste per annum for offsite recovery.

The application has been prepared by Wisser Environment Limited, on behalf of the applicant Murfitts Industries Limited (MIL).

This NTS summarises the proposed activities to be regulated under the Environmental Permit and should be read in conjunction with the other supporting documents included within the application.

Table 2: Table of definitions

Terms	Definition
End of Life (EoL) tyre	Tyre which has been permanently discarded following normal use.
Chips	Fragmented pieces of used tyres, including embedded wire or textile material, whose maximum dimension, of the rubber portion is between approximately 10 mm and 50 mm in size.
Shred	Fragmented pieces of used tyres, including embedded wire or textile material, whose maximum dimension, the rubber portion, is between 50 mm to 300 mm in size.
Whole Tyre	Complete tyre comprising mainly casing, including cord and wire bead, sidewall and tread.
Ambient Size Reduction	Processing of used tyres into smaller particles by mechanical means at or above ambient or room temperature. Also termed shredding.

2. APPLICATION

This application is for a bespoke Environmental Permit and has been prepared under the Environmental Permitting (England and Wales) Regulations 2016 (as amended) for a Waste Operation.

The scope of this application is limited to the storage and mechanical treatment (tyre shredding) of End-of-Life tyres, and the subsequent dispatch of EoL tyre chips for recovery.

The Operator, Murfitts Industries Ltd (MIL), is part of the European Tyre Enterprise (EDEL) Group who are international tyre and automotive service, maintenance and repair business group that operate multiple retail brands including Kwik-Fit and Stapleton's Tyre Service (STS). The site is co-located with an STS tyre warehouse, from which new tyres are dispatched to retail centres, and end of life (EoL) tyres returned for processing.

Waste is delivered to site, via vehicles operated by MIL; on a take back basis on vehicles operated by Stapleton's Tyre Services following delivery of new tyres to retail hubs; trusted third parties, or other vehicles contracted through the EDEL Group.

This site is to operate in a near identical fashion to another Murfitts owned site in Peterborough (EPR/DB3803TY) which is also positioned next to a STS tyre facility. This strategic operation allows for a close-loop system for the tyre industry, offering the service of shredding the EoL tyres to create various, non-waste product.

2.1. Site Location

The proposed site is located in the Grange Industrial area (see Figure 1 below) bordered by other established industrial and commercial activities.

Woolston Park is the closest residential area, located approximately 400 m WSW of the site.

The M6 is approximately 250 m East-North-East of the site, whilst the centre of Warrington is 5 km west of site (see Site Layout Plan K18.14~20~004 and Site Setting Plan K18.14~20~003 for more detail).



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

2.2. Environmental Setting

The environmental setting of the site is summarised in Table 1. A more detailed description of the site setting can be found in the Environmental Risk Assessment (ERA) (K18.14~09~004) within Section 2 of the application pack:

Table 1 Summary of Site Setting

RECEPTOR	DESCRIPTION AND LOCATION
Humans and Property	The surrounding environmental setting is predominantly commercial/ agricultural with the closest residential area located approximately 400 m West South-West of the site.
Surface Water	There are 5 records of surface water features within 2 km of the site. The closest being 695 m North West of the site.
Groundwater	The superficial deposits identified underlying the site are designated as a Secondary A Aquifer and an Unproductive Aquifer. The underlying bedrock is considered a Principal Aquifer. The site does not lie within a groundwater source protection zone.
Designated Sites	There are, in total, 3 designated sites positioned within 2 km of the proposed site. Two are SSSIs, Woolston Eyes SSSI 1.3 km South of the

RECEPTOR	DESCRIPTION AND LOCATION
	proposed site and Risley Moss SSSI 1.8 km North-East of the proposed site (also a SAC). Paddington Meadows is an LNR positioned 1.8 km South-West of the site.
Non-Statutory Designated Sites	There are 10 Non-Statutory Designated Receptors, (Site Setting Plan K18.14~20~003; Sensitive Receptors Table K18.14~20~004), within a 2 km radius of the proposed site. All of which are UK Biodiversity Action Plan (BAP) Sites ¹ . There are 7 related to Deciduous Woodland, 1 relating to Lowland Raised Bog and 2 related to Lowland Fens
Geology	The bedrock geology underlying the site is of a Wimslow Sandstone formation. Superficial drift geological deposits identified on site are described as Devensian sand and gravel.
Flooding	The site does not fall within an Environment Agency Zone 2 or Zone 3 floodplain.

¹ <https://hub.jncc.gov.uk/assets/bdd8ad64-c247-4b69-ab33-19c2e0d63736>

3. PERMITTED OPERATIONS

The site will accept, store and treat (shred) end-of-life (EoL) tyres.

The processes that will be carried out at site are the following:

- The end of life (EoL) tyres are delivered to the site and are unloaded by hand directly on to the conveyor belt that leads to the shredder, or into a fire-resistant bay;
- a low-speed shredder reduces the size of the rubber to 50 mm chips, in accordance with PAS107;
- the shredded EoL tyres are either directly discharged into a waiting trailer, or temporarily stored in a designated bay, for onward dispatch to another permitted site for recovery.

Description of activities		Limits of activities
R3	Recycling or reclamation of organic substances which are not used as solvents, including composting and other biological transformation processes.	Storage prior to and post treatment. Treatment consisting only of manual sorting, separation, shredding, cutting, baling, crushing or compaction
R4	Recycling or reclamation of metals and metal compounds	
R13	Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	

3.1. Waste Acceptance

The proposed annual throughput is 35,000 tonnes.

EoL tyres will be delivered to site via vehicles operated by MIL; on a take back basis on vehicles operated by Stapleton's Tyre Services following delivery of new tyres to retail hubs; trusted third parties, or other vehicles contracted through the ETEL Group.

These deliveries to site will be through pre-booked timeslots to ensure control and re-enforce the site's acceptance procedure.

The vehicles will be directed to the appropriate waste reception area and be unloaded manually.

All EoL tyres will be visually inspected and loaded onto the conveyor. Appropriate EoL tyres will be shredded on-site (See K18.14~09~006 Appendix E for further detail).

The Management System Summary (MSS) (K18.14~09~002) also describes the waste acceptance procedure for the site.

3.2. Waste Processing

EoL tyres accepted onto site are subject to the waste acceptance procedure. Once accepted, they are then placed on an infeed conveyor and visually checked for foreign objects by the operating staff. Alternatively, the EoL tyres are placed in the first fire-resistant bay for temporary storage (max. 5 days) before processing.

The tyres are then sent through to the shredder and shredded to <50 mm pieces and conveyed directly into a waiting trailer. Chips larger than 50 mm are filtered out and removed from the finished product, directed back through the shredder to be re-cut and will not leave the system until they reach the desired <50 mm or less specification (See Figure 2 below).

Once the trailer has reached its desired capacity of tyre chips, the product will then be dispatched to other locations for reuse in alternative industries. Alternatively, the chips are relocated to the second fire-resistant bay for temporary storage (no more than 5 days). See Site Layout with Drainage Plan (k18.14~209~007) for location information.

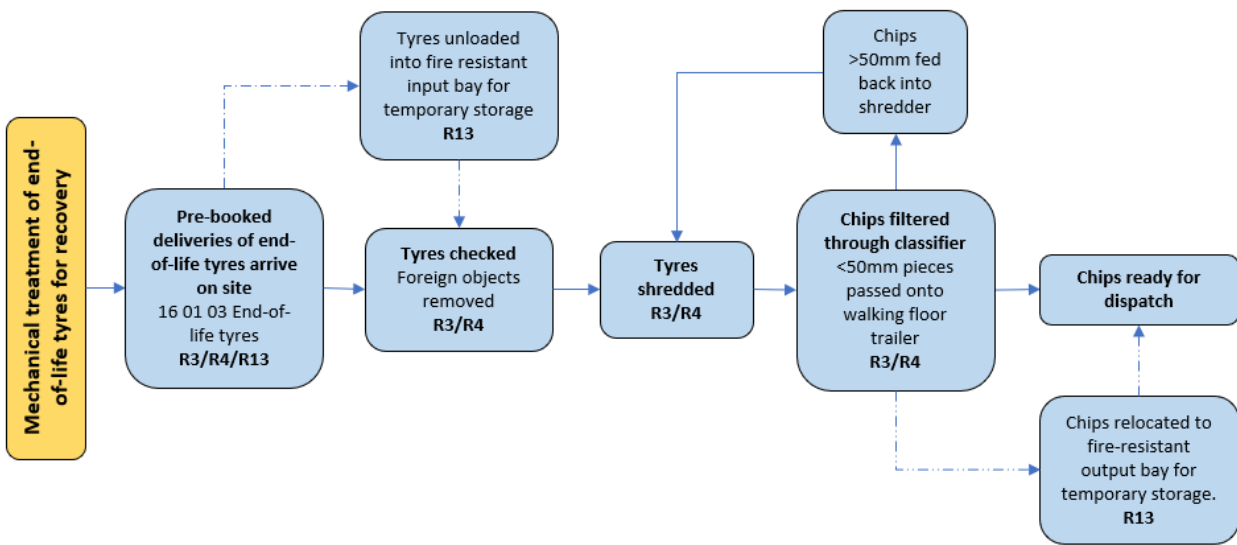


Figure 2 Flow Diagram of the waste treatment process from delivery to dispatch.

3.3. Site Management

Operations will be overseen by Technically Competent Manager qualified through schemes approved under the Environmental Permitting (England and Wales) Regulations 2016 (as amended).

The operator shall manage and operate the activities:

- a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints;
- b) using sufficient competent persons and resources, and
- c) with records demonstrating compliance.

Any person having duties that are or may be affected by the matters set out in the Environmental Permit shall have access to a copy of it.

The operator shall comply with the requirements of an approved competence scheme.

Daily inspections of site infrastructure will be undertaken by the Technically Competent Manager (TCM) or a person appointed by the TCM, in accordance with Section 6.4 in the Management System Summary.

4. RISK ASSESSMENT & MANAGEMENT

An Environmental Risk Assessment (ERA) (K18.14-09-004) is included in Section 2 of the application pack. The ERA details the key management measures for the protection of the environment, with regards to emissions to surface water, groundwater, land, and air (including noise and odour).

The site is operated by Murfit's Industries Limited, a Management System Summary (MSS) (K18.14-09-002) has been developed and is included within in this application pack to reflect and control site operations, environmental management, emissions and monitoring.

The MSS defines operational and maintenance procedures and details requirements in the event of an accident or incident. Murfit's Industries Limited's business management system is certified to ISO14001 Environmental Management and 9001 Quality Management, the intention is that this will be extended to the Warrington site subject to other business demands.