

NON-TECHNICAL SUMMARY

SITE DETAILS:

Murfitts Industries Limited
Campbell Road
Oakhill
Stoke-on-Trent
West Midlands
ST4 4DB

APPLICANT DETAILS:

Murfitts Industries Limited
Station Road
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Application Reference:

EPR/JB3301HB

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DRAWINGS

REFERENCE	TITLE
K18.11~20~001	Permit Boundary
K18.11~20~003	Sensitive Receptor Plan (1km Buffer)

1 INTRODUCTION

This document is the Non-Technical Summary (NTS) that accompanies the application for a Bespoke Environmental Permit EPR/JB3301HB at Murfitts Industries Limited, Campbell Road, Oakhill, Stoke-on-Trent, West Midlands, ST4 4DB. The site location and permit boundary is shown on drawing K18.11~20~001 and has been approved under planning, subject to satisfaction of Environmental Protection in terms of mitigating the effects of waste storage and treatment.

The Bespoke permit is based on the standard rules permit *SR2015 No 6: 75kte household, commercial and industrial waste transfer station with treatment* the application seeks to permit the storage, transfer, shredding, treatment and granulation of waste tyres for onward recovery at another location.

Murfitts Industries Limited are a national operator and specialise in waste tyres with a national network of waste sites that specialise in manufacturing granulate or rubber crumb from post-consumer tyres. Murfitts Industries Limited achieve 100% recycling of rubber, steel and fibre. The manufactured granules are used in sports surfaces, pathways, practise pitches, children's play areas, carpet underlay, modified asphalt and many other industrial applications.

This document accompanies the Bespoke Environmental Permit application and should be read in conjunction with the other supporting documents included within the application.

The application has been prepared by *WISER Environment* Limited on behalf of the applicant and operator Murfitts Industries Limited.

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).

Pre-application advice was received from the Environment Agency (EA) by Wiser Environment Ltd on 26th March 2020 and is contained within **Section 01** of this application pack.

The application seeks to permit the storage, transfer, shredding, granulation and re-tread of waste tyres for onward recovery at another location. With recovery activities as;

- R3 Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes),
- R5 Recycling/reclamation of other inorganic materials &
- R13 Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).

The only waste code to be accepted at site to be;

16 Other wastes from Industrial processes	
16 01	End-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling end-of-life vehicles and vehicle maintenance (except 13 -14 -16 06 and 16 08)
16 01 03	End-of-life tyres

The activity is **low** risk by virtue of the following process characteristics:

- scale of operation;
- the end of life (EoL) tyres received at the site are contained either within the delivery vehicle or held within the cages awaiting sorting into tyres for shredding and or granulation or re-tread, which is located within a building;
- tyres are sorted by hand by trained staff in to re-tread or those for shredding and or granulation. Tyres for re-tread are transferred off of site via an awaiting trailer to a third party;
- once tyres are processed the tyre shred or granulate are stored and loaded in to waiting vehicles and removed from site;
- tyre shred/granulate are sent on to other locations for further processing for recovery such as rubber crumb sports pitches.
- all deliveries to the site are planned and use the operator's or customer vehicles, there will be no ad-hoc or unplanned deliveries;
- there is a maximum of 500 kg of EoL tyres within the processing plant at any one time;
- Contingency waste bay of 200 m³ in the event the just in time supply chain fails it enables a constant flow of EoL's to process.
- under abnormal conditions, e.g. plant breakdown, deliveries will be diverted to the permitted sites within the operator's network.

- the shredding process is slow speed, reducing risk of fire, and incorporates a recirculating water system to control dust and risk of fire;
- the EoL tyres are shredded into 50 mm chips, in accordance with PAS107.

The total amount of waste to be accepted at site per annum is up to 75,000 tonnes.

2.1 Site Location

The site is at Campbell Road, Oakhill, Stoke-on-Trent, West Midlands, ST4 4DB and is located within an established industrial area which borders the site to the North, East and West boundary as shown in Figure 1 below.

To the South of the site runs Campbell Road and the River Trent. The permitted area of the site is approx. 0.28 ha.

Figure 1:



Aerial view of the site (© 2019 Google-Satellite)

The National Grid Reference (NGR) for the site is SJ 87004 43258, Easting: 387004, Northing: 343258 and represents the approx. centre of the site. The site is located approx. 2 km from the city centre towards the South, South West.

2.2 Environmental Setting

The environmental setting of the site can be summarised as follows and shown on Sensitive Receptor Plan 1 km K18.11~20~003; a more detailed setting can be found in the Environmental Risk Assessment (K18.11~09~005) in **section 07** of this application pack.

RECEPTOR	DESCRIPTION AND LOCATION
Humans and Property	<p>The site is located at, Campbell Road, Oakhill, Stoke-on-Trent, Wes Midlands, ST4 4DB to the south southeast of Stoke City Centre, and within an industrial area.</p> <p>The site will be enclosed by a security fence, it is bounded on the east and south east side by Campbell Road as well as the River Trent with more industrial units (tyre manufacture and re-tread) to the north of the site. The closest residential and sensitive public use areas are approx. 205 - 225 m away to the west, northwest and north.</p>
Surface Water	<p>The site is located near to the River Trent. There are multiple surface water features near the site including River Trent, Chitlings Brook and unnamed surface water features all within approx. 245 m. All are classified as inland rivers and not influenced by tidal action.</p>
Groundwater	<p>The site is located on a Secondary (A) Aquifer Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.</p> <p>The site is located on a Secondary (A) Bedrock aquifer made of Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers</p>
Designated Sites	<p>There are 5 designated sites within 2 km of the site boundary. The closest located 565 m towards the south west and is designated as green belt.</p>
Geology	<p>The site is located in an area designated as being made of Artificial ground and Made ground, which could consist of contaminated material. The site will benefit from an impermeable site surface and sealed drainage system. The wider industrial area also benefits from impermeable site surfaces with sealed drainage systems.</p>

Superficial geological deposits known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock. The superficial and drift geology are designated as Alluvium made up of clay, sand, silt and gravel.

The Superficial deposits are underlain by Etruria Formation - ETM-STMD and comprised of Sandstone and Mudstone created in the Westphalian Age.

Flooding

The site is located in a Flood Zone 1 rated as a low probability of flooding. The risk of flooding from Rivers and the Sea (RoFRaS) flood rating is 'LOW'.

Risk of flooding from surface water, the site falls within an 'Low Risk' area which means that each year this area has a chance of flooding of between 0.1% and 1%. Flooding from surface water is difficult to predict as rainfall location and volume are difficult to forecast. In addition, local features can greatly affect the chance and severity of flooding.

3 PERMITTABLE OPERATIONS

The permit will allow the receipt, storage and physical treatment of non-hazardous waste EoL's, by way of manual sorting in to tyres for re-tread and those not appropriate for re-tread to be mechanically treated by shredding and or granulation for onward use and recovery in products such as rubber crumb sports pitches.

The permit will allow for up to 75,000 tonnes of waste throughput per year with 500 kg being processed at any one time and a maximum of 200 m³ stored for no longer than 72 hours. The processed material is removed as it arrives as a part of a just in time supply chain. With no waste storage exceeding 3 months, with reception and manual sorting of EoL's within a building, and all other waste activities occurring externally on an impermeable site surface with a sealed drainage system and waste stored within fire resistant bays.

3.1 Waste storage capacity & annual throughput

The annual throughput will be up to 75,000 tonne per year. The storage capacity of the site will be 200 m³ pre-treated EoL tyres, 500 kg within the process and 0 m³ treated EoL's as it is loaded for removal straight away once processed in to awaiting vehicles.

The following table provides a summary of waste types, codes, storage capacity and typical annual throughput.

WASTE TYPES	EWC	STORAGE CAPACITY	ANNUAL THROUGHPUT (t)
Tyres	16 01 03	200 m ³	Up to 75,000

3.2 Waste Acceptance

The waste to be accepted at the site are those set out in K18.11~09~002 in **section 08** of this application pack.

As a minimum, the waste acceptance procedure will incorporate all requirements of the Duty of Care, include the address/location and identity of the producer, the physical appearance of the waste, the amount of waste being accepted and an identifiable EWC Code.

The permit holder will only accept those wastes that comply with the permit. Non-conforming loads will be rejected.

3.3 Waste Processing

EoL tyres will be delivered to site in pre booked time slots to ensure control and re-enforce the sites acceptances procedure. There are no ad-hoc deliveries. Deliveries will either be via Murfitts Industries Limited own fleet or via customers vehicles. The vehicle will be directed to the appropriate waste reception area and unloaded manually. Sorting of EoL tyres in to two streams will occur here. Appropriate EoL tyres will go for re-tread the rest will either be shredded and or granulated on site. Once EoL tyres have been shredded and or granulated they will be stored pending onward transfer for recovery.

3.4 Site Management

- A Technically Competent Manager; who will manage the operation and regularly attend site in compliance with the defined attendance requirement.
- A site supervisor; who will be responsible for the ongoing operation who may also undertake office and plant operation duties.
- Other trained plant operators as required.

4 RISK ASSESSMENT AND MANAGEMENT

An Environmental Risk Assessment (K18.11~09~005) is included in **Section 07** of the application pack. The risk assessment details the key management measures for the

protection of the environment with regards to noise and fugitive emissions (such as dust and particulate matter).

The site is operated by Murfitts Industries Limited and a management plan has been developed to reflect and control site operations. The management system defines operational and maintenance procedures and details requirements in the event of an accident or incident, the management plan submitted is part of a wider accredited integrated management system for ISO 14001 (EMS 711489) & ISO 9001 (FS 711490).