TD TYRE RECYCLING FACILITY, JOHNSTOWN, CARMARTHEN

NON-TECHNICAL SUMMARY

Report Number 2161r1v1d1021

Permit reference:

Waste returns reference:

Operator:
TD Tyre Recycling Ltd

Site Address:
Plot 7, Cillefwr Road West,
Alltycnap Road,
Johnstown,
Carmarthenshire SA31 3RB

Prepared by:
Geotechnology Ltd
Ty Coed
Cefn-yr-Allt
Aberdulais
Neath
SA10 8HE

October 2021

Table of Contents

List of Figures

1 BACKGROUND

TD Tyres wishes to operate a tyre transfer facility at their site at Cillefwr industrial Estate, Carmarthen. The operator has operated at the site for several years under exemption, but now wishes to operate under a Permit. The site boundary is shown on Figure 1.

2 APPLICATION DETAILS

2.1 Waste Operation

The proposed annual throughput will be up to 10000 tonnes of waste per annum with a maximum 185,000 tyres (~1850 tonnes at 10kg / tyre) being on site at any one time. Agricultural plastics will form a tiny part of the operation with some 20t/yr being accepted.

Virtually all of the waste accepted for baling at the site are directly collected by TD tyres using a dedicated fleet of vehicles. This ensures that the waste is subject to a visual and handling pre-waste acceptance check and this limits the likelihood of non-conforming waste turning up at the site. Back at the site, each tyre is manually handled once more during offloading, providing another opportunity for visual checks.

The key stages of the waste management process are shown in Plates 2-1 to 2-3. As can be seen, the activity is relatively low key involving mechanical baling of approximately 120 tyres into a wire bound bale. These are then temporarily stored prior to off-site shipment which typically occurs using shipping containers, with each shipping container holding approximately 32 bales (3,840 tyres).

Plate 2-1 Loading of customer tyres into TD collection vehicle and transfer to site

Plate 2-2 Unloading and interlacing of tyres adjacent to baler

Plate 2-3 Placement of bales into temporary storage

2.2 Storage Management

Once baled, each bale is manoeuvred using telehandlers into dedicated storage areas in accordance with the configuration outlined in Figure 2. This comprises 24 stacks comprising approximately 1536 bales. Each stack measures ~5.6m x 5.6m and is up to ~3m high as each bale is approximately 1.4m long, 1.4m wide and 0.7m thick i.e. bales are stacked on top of each other in 4 layers of 16. Between each stack is a separation distance of 3m to allow for safe handling and emergency vehicular access. To ensure that tyres are stored for the shortest time feasible, the first-in-first-out principle is applied and managed by spraying a visible corner of each stack with the date (day/month) of baling.

2.3 Pollution Control Measures

As shown in Plate 2-4, the external yard comprises compact hardstanding. This is aimed at providing a level and stable storage platform and protecting the underlying ground.

Plate 2-4 External hardstanding

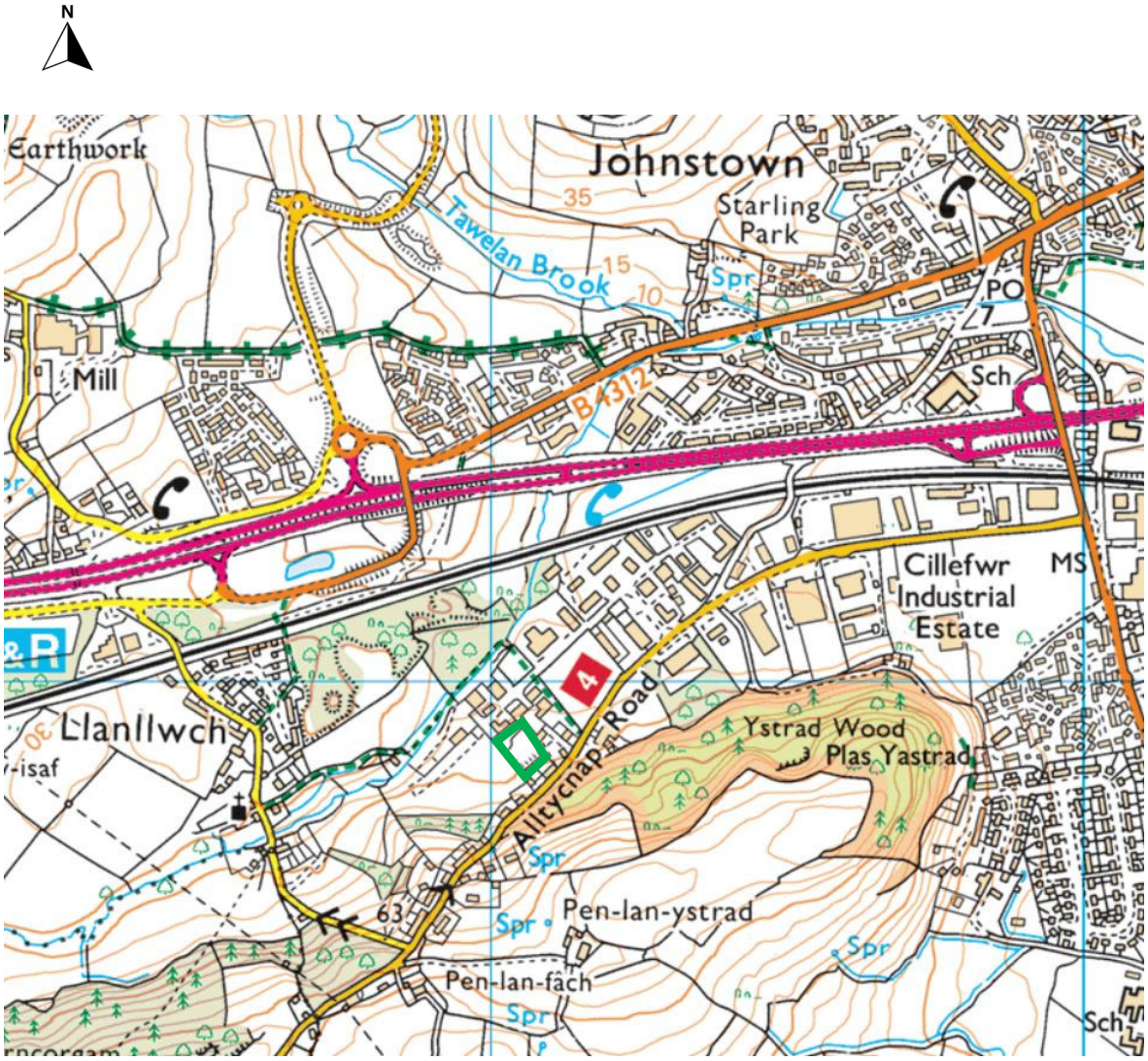
2.4 Assessment for Permit Application

To support assessment of the application, NRW has requested TD to describe the environmental risk posed by the new proposals. This has taken the form of an environmental risk assessment and noise assessment. The assessment of the proposals indicates that the site should not pose unacceptable risks to the environment or nuisance to receptors.

3 SUMMARY

To ensure that the control measures are implemented and the system is evaluated an EMS has been prepared and will be implemented. A Fire Prevention and Mitigation Plan has also been prepared. This has followed on-site discussions between the operator, FRS and NRW.

Figure 1 Permit Boundary



Reproduced from the Ordnance Survey Land Ranger Map
with the permission of The Controller of Her Majesty's Stationery Office
© Crown Copyright. Geotechnology SA10 8HE Licence No 100018015