



## **NON-TECHNICAL SUMMARY**

**Version 2 - Nov 2024**

J. and A. Young (Leicester) Ltd  
Trading as JAYPLAS  
Heol Y Mynydd,  
Gorseinon,  
Swansea  
SA4 4NY  
Grid reference: SS 59469 99671

## Revision History

Version	Date	Comments	Author	Approved by
1	May 2024	First document for permit application	V.Cooper	K.Struthers
2	Nov 2024	2.1.1, 2.1.5 and 2.1.6 updated for mixed packaging 3.1 NRW Fees updated	V.Cooper	K.Struthers
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## **1. Introduction**

### **1.1 Application**

- 1.1.1 This non-technical summary accompanies an application by J. and A. Young (Leicester) Ltd for an environmental permit to operate a Plastic Recycling Facility (PRF) at their site on Heol Y Mynydd, Gorseinon, Swansea SA4 4NY.
- 1.1.2 The site will receive a range of plastic recyclables which will be stored and treated to an end of waste status for sale off site for manufacture of plastic packaging or plastic products.
- 1.1.3 At the time of applying for the environmental permit, the site is not operational or receiving waste. The application submitted is based on the proposed treatments activities for the site and the external storage areas which are being developed.

### **1.2 Company Background**

- 1.2.1 J. and A. Young (Leicester) Ltd (company registration number 01222186) was established in 1975 and has since grown to be one of the UK's largest plastic recyclers. Jayplas is a trademark of J. and A. Young (Leicester) Ltd. The company specialises in recycling different plastic materials across a network of facilities in the UK. J. and A. Young have 6 waste facilities that operate on a bespoke environmental permit<sup>1</sup>, a bag for life and film blowing facility at Worksop, an exempted waste storage only facility in Loughborough and now the new facility in Swansea.
- 1.2.2 J. and A. Young are committed to the proximity principle and are therefore driving their business to providing reprocessing solutions across the UK. The network of facilities allows road miles to be managed and reduced where possible and for the company to minimise overseas reprocessing.

### **1.3 Site Location**

- 1.3.1 Lunette Services Two Limited (company registration number 09623156) purchased the freehold of the Swansea site 24 November 2023. The Directors of Lunette Services Two Limited are Jason Young and Dominic Young and the Director of J. and A. Young (Leicester) Limited is Jeremy Young. Jason Young and Dominic Young are the sons of Jeremy Young.

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<sup>1</sup> a summary of the key operations provided at each site can be found at Annex 1 below

- 1.3.2 The site is approximately 1 mile north east of the town of Gorseinon, Swansea. The site is centred at National Grid Reference (NGR): SS 59469 99671.
- 1.3.3 Entrance to the site is gained from a spur road, Heol Y Mynydd, off a roundabout situated on Pontardulais Road to the north of the site. There is only one exit / entrance to the site. The site is in an industrial setting, away from residential areas and was previously occupied by Toyoda Gosei UK Ltd.
- 1.3.4 The site is located north east of the town of Gorseinon separated from residential and other industrial properties. To the east lies an area of established woodland, beyond which lies the M4 motorway. The areas to the south and west of the site are occupied by residential areas, as well as areas of corresponding infrastructure and areas of open land/woodland and recreational areas.

## **2. Application**

### **2.1 Application Proposal**

- 2.1.1 The environmental permit application is to accept 120,000 tonnes of waste for recycling per annum for the physical treatment of non-hazardous plastic waste and the storage of plastic and low volumes of cardboard and metal cans.
- 2.1.2 The site will provide a full plastic recycling operation. The site will receive household and household like packaging and industrial and commercial plastic packaging and plastic waste for processing to end of waste status.
- 2.1.3 As of May 2024, the buildings are not occupied and no waste is being stored on site. The first piece of equipment to arrive on site will be the plastic extruder. This is due to be delivered Qtr4 2024. At this stage it is not known exactly when the site will need to commence receiving waste, however when waste does start to arrive on site the requirements of the EMS and FPMP will be implemented. The site has registered S2 Exemption (NRW-WME092355) in the interim, the exemption will be removed when the permit is issued.
- 2.1.4 The proposed treatment activities of the plastic waste include manual and mechanical and optical sorting, separation, screening, mechanical washing, bale breaking, baling, shredding, flaking, granulating, drying, filtration, blending, compaction and extrusion of non-hazardous waste for recovery.

2.1.5 The site is a plastic recycling facility, however the site will receive other recyclables as a consequence of the plastic recycling facility activities:

- a. The plastic bottles delivered to the site may contain drinks cans, these are separated in the mechanical and optical sort process at the start of the plastic recycling process. Mixed packaging and mixed recycling EWC codes have been included in the list of waste applied for to allow for this.
- b. occasionally a producer may put a bale of cardboard on the same articulated vehicle to save road miles, therefore cardboard EWC codes have been included in the list of wastes accepted on the environmental permit application to allow for the infrequent occasion that this might happen. The low volumes of cardboard waste will be stored externally and may be baled if required.

2.1.6 The following will be stored on site:

Inbound Wastes:

- a. Separated plastic waste for reprocessing
- b. Separated plastic waste received on site which may be for storage only and sent off site for reprocessing elsewhere.
- c. Mixed packaging waste i.e mixed bottles and cans, for sorting and then reprocessing of the plastic recyclables
- d. Low volumes of cardboard waste

Outbound Wastes:

- a) Separated plastic baled recyclables
- b) Separated metal cans for onward reprocessing (low volumes)
- c) Separated cardboard for onward reprocessing (low volumes)

Outbound non-wastes

- a) Bagged pellet and flake which has met end of waste status through the reprocessing on site

2.1.7 The baled and bagged waste will be stored outside in dedicated storage areas (see Waste Storage Plan drawing no. SWA-DWG-EP-05) and the finished bagged pellet/flake will be stored in the building (see Internal Plant Layout (Proposed) drawing no. SWA-DWG-EP-07 (part 2 of 2)).

2.1.8 The maximum onsite storage capacity is 20,000 tonnes at any one time.

2.1.9 All treatment of waste will be performed on an impermeable pavement. The core treatments listed above will be performed in a building, the only exception to this will be the infeed to the sorting process. The bale breaker and infeed conveyor to the sort plant

will be positioned under the canopy overhang of the building into the area (see Internal Plant Layout (Proposed) drawing no. SWA-DWG-EP-07 (part 2 of 2)).

- 2.1.10 The environmental risk assessment completed does not identify a risk of odours, noise or pests from the proposed operation so separate management plans for these emissions have not been included.
- 2.1.11 The external storage areas (once built) will discharge to surface waters via an interceptor. The drainage on the storage areas will have an emergency lock off procedures in place before either area is used for storage. The positioning of the release point to surface waters from the external yards is estimated at this stage because the Main Yard and Side Yard have not been constructed. The estimated location of the release point (SW1) can be found on drawing no. SWA-DWG-EP-12 – Emission Plan.
- 2.1.12 A second release point to surface waters has been added as it is within the permit boundary, however waters to this release point are only from roadways, roof water and the car park. The release after the interceptor from the front of the site has been shown as SW2 on drawing no. SWA-DWG-EP-12 – Emission Plan.
- 2.1.13 The treatment process involves the washing of the plastic and for this a water treatment plant will be required. When this equipment is installed the water will be discharged to foul sewer via a trade effluent consent with Welsh Water. The positioning of the release point for the foul water is estimated at this stage because the equipment is not installed. The estimated location of the release point to foul (FW1) can be found on drawing no. SWA-DWG-EP-12 – Emission Plan.
- 2.1.14 3 vents in the building to release hot air from the extruders have been included in the application. The positioning of the vents is estimated at this stage because the equipment is not installed. The estimated location of the 3 vents can be found on drawing no. SWA-DWG-EP-12 – Emission Plan. No M1 stack monitoring is required as only warm air released.
- 2.1.15 At this stage the site is being developed that all fixed treatment plant will be electrically powered. Should this change and if any engine installed was determined to fall under the remit for the Medium Combustion Plant Directive (MCPD) or Specific Generator Regulations, a separate application to enable its operations would be submitted.

### 3. NRW Fees

3.1 The following table sets out the fees required for the application.

Table 3.1 – Base application fee table

Application Detail	Charge Detail	Charge £
New waste bespoke permit	Base charge for a bespoke waste permit	£10,011
Reviewing plans and assessments	Fire prevention and mitigation plan	£ 2,343
Assessment	Assessment of SSSI Interest	£ 306
Assessment	Other protected sites	£ 201
	<b>TOTAL</b>	<b>£12,861</b>

### 4. Summary and Conclusions

4.1 The business model falls at the top end of the waste hierarchy; it is the BPEO for recycling plastic; fulfills the proximity principle and is making a significant contribution towards self-sufficiency in this area of recycling for Wales. With the political pressure to recycle plastic in Wales, J. and A. Young are investing in UK infrastructure which is desperately needed and as such this permit application is positive for the UK recycling sector.

### Annex 1

J. and A. Young (Leicester) Ltd sites operating under a bespoke environmental permit:

SITE:	OVERVIEW:
Summerpool Road, Loughborough	Washing and treatment of plastic film to produce washed flake and pellet. Manual sortation, baling and storage of plastic, cardboard and paper grades.
Cotton Way, Loughborough	PE and PP film extrusion to produce pellets, manufacture of blown film i.e refuse sacks and sortation and storage of all plastic grades.
Birmingham	Automatic sortation of plastic film to improve quality of PE film grades. Extrusion of clean PE film to produce pellets. Baling and storage of plastic, cardboard and paper grades.
Corby	Washing of pre-sorted PET and HDPE bottles to produce food grade recycled PET and HDPE hot washed flake or pellet. Manual sortation, baling and storage of plastic, cardboard and paper grades.
Grimsby	Washing and treatment of plastic bottles and rigid household plastic to produce washed flake and pellet.
South Normanton, Derbyshire	Plastic bottle sorting facility. Automated sortation of plastic bottles by polymer and colour. Manual sortation, baling and storage of plastic, cardboard and paper grades.