

Appendix 29 (V2) – Site Drainage and Infrastructure

SITE DETAILS	
Name of the applicant	J. and A. Young (Leicester) Limited
Name of site	Jayplas
Activity address	Heol Y Mynydd, Gorseinon, Swansea SA4 4NY
National grid reference	SS 59469 99671

Below is a summary of the site drainage and infrastructure at the above site, please see Site Drainage Plan - Actual (Drawing No. SWA-DWG-EP-06) Part 1 of 2 and Site Drainage Plan - Proposed (Drawing No. SWA-DWG-EP-06) Part 2 of 2 for illustration.

Office and site – WC

- Foul connection to local sewerage treatment works.

INTERNAL – Buildings

Drainage

- There are no drains internally in the buildings.
- Roof water from the buildings runs off existing gutters and drainpipes to the surface water system.

Infrastructure

- Impermeable pavement internally

EXTERNAL – Waste Storage (Main Yard and Side Yard to be constructed)

Drainage - Day to day drainage to surface waters:

- Main Yard – the runoff from the Main Yard area will run to a central low point sump at the top of the yard, where the water will be pumped up to a reception pit.
- Side Yard – there will be a channel drain across the front of the bays on the Side Yard which will connect to the same reception pit as the Main Yard.

The reception pit will connect to an interceptor and the interceptor will connect to the existing surface water drainage system.

Emergency lock off – the interceptor will be fitted with an automatic penstock valve to enable the discharge to be shut-off in the event of a major leak/spill of potential polluting substances or a fire at the site. See Site Drainage Plan (Proposed) drawing no. SWA-DWG-EP-06 (part 2 of 2).

At the time of submitting the permit application, the exact type of interceptor has not been decided, the decision on the interceptor specification will be confirmed when the building of the external yard areas is reviewed by structural engineers and the proposed drainage as submitted in the permit application is confirmed and implemented. The proposed drainage plan submitted with the permit application is for a Kingspan NSFA200 Full Retention Separator/Interceptor to be installed. Full details of the Kingspan NSFA200 is at Appendix 1 below.

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The interceptor will be maintained in line with the manufacturer's recommendations following installation on site.

Infrastructure

- Impermeable pavement

EXTERNAL – Non-waste areas

The site's current existing surface water drains are essentially two separate systems:

1. South and south west part of the site including staff car park area - drains towards and bypasses the balancing pond at the front of the site and from there it either connects to the surface water drainage system at the front of the site or soaks into groundwater.

East side of the site - currently the east side of the site is an area of 'unmade' ground which soaks away into a ditch or land drain which flows south to the balancing pond. This will be changed when the Side Yard is developed.

2. West, north and north-east of the site - There is an existing ditch or land drain running across the yard area which once the new storage area is developed the need for this will be substantially reduced. All the roof water is channelled into ever-increasing sized drains and finally into a main sewer (450 mm diameter) leaving at the north-east corner, the drain empties into an open (unnamed) ditch and ultimately into Coal Brook just upstream of a culvert beneath a rough track.

WATER TREATMENT PLANT

Once constructed the water treatment plant will discharge to foul sewer via a trade effluent consent with Welsh Water.

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Appendix 1 – Kingspan NSFA200 Full Retention Separator/Interceptor details

