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ENERGY AND CLIMATE CHANGE  
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WASTE RESOURCE MANAGEMENT



**VALENCIA WASTE MANAGEMENT LTD**

**APPLICATION TO VARY PERMIT NUMBER EPR/BV4517IM**

**NON-TECHNICAL SUMMARY**

**APRIL 2023**

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**VALENCIA WASTE MANAGEMENT LTD**

**NON-TECHNICAL SUMMARY**

**APRIL 2023**

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MAS335	Proposed MRF Location	1:250@A1

## **1 INTRODUCTION**

- 1.1.1 Wardell Armstrong have been appointed to prepare an application to vary the permit for Masons Landfill at Great Blakenham near Ipswich. The site is operated by Valencia Waste Management Ltd (Valencia) under permit number EPR/BV4517IM.
- 1.1.2 The site is permitted to accept non-hazardous commercial, industrial and household waste as well as having a separate cell for asbestos.
- 1.1.3 Valencia is seeking to move waste up the waste hierarchy by treating mixed non-hazardous waste arriving at the landfill to recover metals, wood and plastic for recycling. The waste will be further treated to separate non-combustible material from the combustible fraction before it is sent off site for energy recovery. The residual waste will be placed in the landfill.
- 1.1.4 No asbestos will be treated. The measures in place for the safe disposal of asbestos into a dedicated cell within the landfill will continue.
- 1.1.5 Section 2 outlines the contents of the variation application and the changes required to the permit.
- 1.1.6 Chapter 3 describes the new activities Valencia wish to carry out and section 4 describes the measures in place to ensure that these activities do not harm the environment.
- 1.1.7 The site layout is shown on drawing MAS335.

## **2 VARIATION APPLICATION**

### **2.1 The Application**

#### **2.1.1 This application includes the following information:**

- the statutory application forms;
- this Non-Technical Summary
- Operating Techniques, setting out the day to day operation of the site;
- Environmental Risk Assessment, identifying potential risks and showing how these are mitigated;
- Assessment of Best Available Techniques showing how the site will comply with the appropriate measures for the listed activity;
- Odour Management Plan for the treatment plant;
- Dust Management Plan for the treatment plant;

- Fire Prevention Plan, setting out how fire will be prevented, fire-fighting measures to be in place if needed and management of fire water and residues;
- Habitats Risk Assessment demonstrating the proposed MRF will not impact on nearby habitats and
- Site layout and drainage drawings showing the layout of the new activity.

## 2.2 Changes to the Permit

- 2.2.1 To allow the new activity to take place the following changes to the permit will be required.
- 2.2.2 In Table S1.1 include a new listed activity, Section 5.4 A(1) (b) (ii) a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving pre-treatment of waste for incineration or co-incineration.
- 2.2.3 Update the list in Table S1.2 of the permit to include reference to the application documents setting out the operation of the new waste treatment facility.
- 2.2.4 Update Table S1.3 to permit an additional 150,000 tonnes of waste to be received on site per year and for 150,000 tonnes per year to be treated through the waste treatment plant.

## 3 NEW ACTIVITIES

- 3.1.1 Mixed non-hazardous waste arriving at the site will be received inside a building to provide containment for litter, dust and noise.
- 3.1.2 The waste will be shredded if necessary and passed under an overband magnet in order to remove ferrous metal. This will be placed in a dedicated bay pending removal to a permitted metal recycling site.
- 3.1.3 The waste will then be treated in a trommel to divide it into fine, medium and large fractions. The fines will be collected in a dedicated bay pending disposal. The medium and large fractions will pass through various sorting processes to recover plastic, non-ferrous metal, ferrous metal and wood for recycling. The plant will also sort out the lighter wastes, for example small pieces of paper, card and plastic, which will be used as a refuse derived fuel and sent for energy recovery. All wastes will be placed in dedicated storage bays pending removal to the landfill, an energy from waste plant or a permitted recycling site as appropriate. The aim will be to maximise recycling.

- 3.1.4 The process will also generate a heavy fraction, expected to contain a high content of grit, stone, glass etc. This will be used in the landfill for maintaining site roads and for daily cover.
- 3.1.5 The non-recyclable, non-combustible material will be placed in the landfill and may be used as landfill cover where appropriate.

#### **4 ENVIRONMENTAL PROTECTION**

- 4.1.1 The main purpose of the variation is to move waste further up the waste hierarchy. There will therefore be an overall environmental benefit in reduced use of raw materials (by recycling materials) and reduced carbon emissions (by recycling materials and recovering energy from combustible waste).
- 4.1.2 Nevertheless, it is important that this is carried out without harm to the local environment. In order to minimise emissions, the activities will take place inside a building.
- 4.1.3 Measures will be in place to prevent litter and minimise dust.
- 4.1.4 Waste will be dealt with on a first in first out basis and will be treated within 72 hours]to minimise the risks of odour and vermin. Fines and residual wastes will be sent off site within 72 hours.
- 4.1.5 The site will be kept tidy and will be inspected on a daily basis to make sure that no pollution is occurring. Any significant emissions of dust, odour, litter or noise will be investigated and remedied.
- 4.1.6 All plant and equipment will be properly maintained so that it is fit for purpose and operates without excessive noise.
- 4.1.7 The site will be managed by a technically competent manager in accordance with Valencia's written Environmental Management System.
- 4.1.8 The measures in place to protect the environment are considered to be the best available techniques (BAT) in line with Environment Agency guidance and the BREF note for waste treatment.

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