

1 Introduction

1.1 Report Objectives

This report and associated technical assessments support a permit variation application by Valencia Waste Management Limited (the Operator) for the addition of a Materials Recycling Facility (MRF) at Trigon Hill Landfill. As part of the proposed permit variation, it is proposed to extend the existing permit boundary to incorporate land on which the MRF will be located.

This report addresses the questions raised in the environmental permit application forms Part A, C2, C3, C4 and F1 which are included as Appendix A.

1.2 Non-Technical Summary

The wider site (Trigon Hill landfill and proposed MRF) is located approximately 2.2 km to the northwest of Northport and 2.4km northwest of Wareham town centre in Dorset. The approximate centre of the wider site (landfill and proposed MRF) is at National Grid Reference SY8960089400. The wider site (landfill and MRF) is bounded: to the north by the Bere-Regis to Wareham road and North Trigon Farm; to the east by a bridleway, caravan park and solar farm; to the south by agricultural land; to the west by agricultural land and a solar farm; and, in all directions by woodland. The proposed MRF location is bounded: to the west by the landfill (adjacent to Cell 2 Phase 3); to the north by woodland; to the east by a solar farm and woodland; and to the south by the landfill and woodland.

The wider site (landfill and proposed MRF) is located on a former opencast ball clay pit with planning consent issued to Viridor Waste Management Limited in May 2005 for restoration by landfilled wastes. The landfill is comprised of 6 phases and 25 cells and has accepted non-hazardous household, commercial and industrial wastes.

An Environmental Permit (EP) referenced BX4054ID was issued on 21st June 2006 to Viridor Waste Management Limited. The permit was modified on 1st April 2009, 15th August 2012 with a subsequent variation undertaken by the Agency on 28th May 2013 to align the permit with the Industrial Emissions Directive (IED). A modification was issued to Viridor Waste Management Limited on 26th May 2016 for a new leachate storage compound at the landfill site. The permit was subsequently modified by the Agency on 27th May 2016. Variation 7 of the permit was issued on 23rd April 2028 in order to add the landfill gas filtration system as a directly associated activity. A surrender application was made in 18th of January 2019 however this was then withdrawn by the Agency. A subsequent variation of the permit was issued on 11th October 2019 as a result of a partial surrender application. A further variation of the permit was issued on 20th October 2020 prior to the transfer of the permit, update of the associated company name, addresses and financial provision on 13th March 2023.

The proposed permit variation is to extend the existing boundary to the east to incorporate additional land for the proposed MRF. The proposed MRF will have an annual throughput of up to

250,000 tonnes of predominantly commercial and industrial wastes. The MRF proposes to treat commercial and industrial waste into separate fractions including ferrous and non-ferrous metal recovery. The treatment of waste at the MRF will primarily involve physical treatment comprising: manual sorting; screening; separation; baling; shredding; crushing; compaction or blending.

The MRF will process waste which will be recovered for a number of purposes. Any suitable residue is to be used to produce a refuse derived fuel (RDF) for energy from waste (EfW). Any unsuitable residue is to be sent to the landfill for cover or use in constructing temporary access roads. Waste that is not suitable for use in RDF will be treated as part of a waste operation at site to physically treat non-hazardous waste.

The proposed materials recycling activity is to be undertaken within a purpose built building which will be steel portal frame on breeze block with internal breeze-block push walls. The building will measure circa 85m by 39m with an eaves height of approximately 9m and a ridge height of circa 12.5m.

The treatment of waste within the building will be restricted to a steel reinforced concrete impermeable surfaced area with sealed drainage. The interface between walls and floors is sealed, with 90mm ramps forming the seal at doors. Uncontaminated surface water from the MRF roof and surrounding area will drain to the existing on-site surface water infrastructure.

The MRF will accept up to 250,000 tonnes of waste at the site each year to be treated. Waste for treatment may be a mix of those waste streams already accepted at the landfill and new waste streams as detailed in full in Appendix C. Valencia may expand the MRF in the future depending on the initial period of operation.

Application forms Part A, C2, C3, C4 and F1 have been completed and are provided with this application.