



Non-technical Summary EPR/GB3490HG/A001

Nine Mile Point Waste Processing Facility

for:

Hazrem Environmental Ltd

CRM 083 002



Contact Details:

Enzygo Ltd.
The Byre
Woodend Lane
Cromhall
Gloucestershire
GL12 8AA

tel: 01454 269237
fax: 01454 269760
email: peter.cumberlidge@enzygo.com
www: enzygo.com

Non-Technical Summary CRM 083 002 PE R.003 A

Project:	Nine Mile Point Waste Processing Facility
For:	Hazrem Environmental Limited
Status:	DRAFT
Date:	September 2015
Author:	S Charnaud, Senior Consultant
Reviewer:	P Cumberlidge, Director

Disclaimer:

This report has been produced by Enzygo Limited within the terms of the contract with the client and taking account of the resources devoted to it by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.

Enzygo Limited Registered in England No. 6525159
Registered Office Stag House Chipping Wotton-Under-Edge Gloucestershire GL12 7AD

Contents

1 Non-Technical Summary 2

Tables & Figures

Table 1.3.1: Sensitive Receptors 3

Table 1.11.1: Point Source Emissions to Air 5

Table 1.11.2: Point Source Emissions to Water 5

1 Non-Technical Summary

1.1 Introduction

- 1.1.1 This non-technical summary relates to an application submitted to Natural Resources Wales (NRW) for a bespoke Installation Environmental Permit (Permit) to operate a Waste Processing Facility in the Cwmfelinfach area of Caerphilly, Wales.
- 1.1.2 The location for the site is illustrated on the map provided in the Drawings Section of this Application referenced CRM 083 002 PE D 001 Site Location Plan. The site is centred at NGR ST 19235 91305 and is located just off the B4251 between the villages of Wattsville and Cwmfelinfach, approximately 4.3km North East of Caerphilly, South Wales. The installation boundary is shown on CRM 083 002 PE D 002 Installation Boundary in the Drawings Section of this Application.

Figure 1.1.2: Site Location



1.2 Environmental Setting

- 1.2.1 The Facility's full address will be :

Nine Mile Point Waste Processing Facility
Nine Mile Point Industrial Estate
Ynysddu,
Cwmfelinfach,
Caerphilly,
NP11 7HZ

- 1.2.2 The Facility will be operated by Hazrem Environmental Limited.
- 1.2.3 The primary contact for the application will be Steph Charnaud, Senior Consultant Enzygo Limited who are employed to provide technical support to Hazrem Environmental Limited as part of the Environmental Permit application process.
- 1.2.4 The site currently comprises a parcel of undeveloped land comprising open mown grass and some trees on Nine Mile Point Industrial Estate.
- 1.2.5 The Facility is to occupy an area of approximately 1.09ha and bounded by an industrial unit and car park to the east, roads to the south and west and woodland to the north.

1.2.6 The nearest residential properties are on New Road, approximately 470m northeast of the eastern edge of the site boundary and William Street, approximately 478m west of the western edge of the site.

1.3 Sensitive Receptors

1.3.1 Key receptors that have the potential to be impacted by activities on site are considered in table 1.3.1 below.

Table 1.3.1: Sensitive Receptors

Receptor	Type	Distance (m)	Direction
The site is located close to other Industrial and Commercial units on the Nine Mile Point Industrial Estate. These lie to the east and west of the site. The closest of these is immediately adjacent to the facility.	Commercial	0	E
The site is located close to Woodlands. These lie to the north and south of the site. The closest of these is immediately adjacent to the facility	Ecological	0	N
Sirhowy River	Ecological	35	S
Agricultural Land	Agricultural	150	S
Residential properties at New Road, Wattsville	Residential	470	NE
Residential Properties at William Street, Cwmfelinfach	Residential	478	W

1.4 Proposed Permitted Activities

1.4.1 Hazrem Environmental Limited is proposing to operate a bespoke Part A Installation Environmental Permit for the operation of a Waste Processing Facility. The Facility will process up to 100,000 tonnes of non-hazardous household, commercial and industrial wastes per annum.

1.4.2 For the majority of the time the facility will accept more than 75 tonnes of waste per day. The waste will be treated to produce either Solid Recovered Fuel (SRF) or Refuse Derived Fuel (RDF) which will be baled and wrapped to be exported off site for energy generation. Recyclable wastes will be removed during the production of the SRF/RDF. A bespoke Installation application has been prepared to fully assess the risks posed by the activity and to fully consider the proposed activity against Best Available Techniques (BAT).

1.5 Regulated Activities

Schedule 1 Activity	Description of Activity	Annex IIA or IIB	Treatment Capacity
Part A(1) Section 5.4 Part A(1)(b)	<p><i>Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving (ii) pre-treatment of waste for incineration or co-incineration.</i></p> <p><i>Bulking of recyclable wastes recovered as an incidental part of production of SRF/RDF</i></p>	<p>R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)</p> <p>R4: Recycling/reclamation of metals and metal compounds</p> <p>R5: Recycling/reclamation of other inorganic materials</p> <p>R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on site where it is produced)</p>	<p>Total capacity of 100,000 tonnes per annum.</p> <p>Daily treatment capacity of 75 tonnes per day.</p>

1.6 Waste Types and Quantities

1.6.1 The Nine Mile Point Waste Processing Facility will process up to 100,000 tonnes of non-hazardous industrial, commercial and household waste per annum. Recyclates will be removed from the incoming waste to during the production of SRF/RDF.

1.7 Planning Permission

1.7.1 Dual applications are being submitted for planning and permitting. Planning permission is being sought from Caerphilly County Borough Council.

1.8 Process Description

1.8.1 Waste will be delivered to the site during the following operational hours:

- Monday – Friday 07:30 – 18:30
- Saturday 07:30 – 13:00
- No deliveries will take place on Sundays or Public/Bank Holidays.

1.8.2 The treatment of waste through the process will in general operate continuously 24 hours a day.

1.8.3 The proposed Waste Processing Facility will comprise of the following primary elements:

- Weighbridge
- Waste reception and storage;
- Storage area for recycled wastes, i.e. metals, plastics, fines
- Shredders
- Screens
- Separating equipment, magnets, heavy light separators and a near infra red optical unit for plastic separation
- Dryer

- Baler and Wrapper
- SRF/RDF Storage: and
- Cabin associated with staff and visitor parking

1.9 Non-Permitted Activities

1.9.1 There are no non-permitted activities proposed to be carried out at the Facility, all activities are within the permit boundary.

1.10 Management and Control

1.10.1 The approach to permitting and regulation relies heavily upon the use of Environmental Management Systems (EMS) as a driver for environmental compliance and improvement. In England and Wales, under the Environmental Permitting Regime, modern regulation is fundamentally driven by applying a risk based approach to activities, where operators are encouraged to implement suitable management systems with which to operate, and to implement self-regulation and reporting. If you hold a permit under the Environmental Permitting (England & Wales) Regulations 2010 (as amended 2015) Natural Resources Wales require operators to have an appropriate Environmental Management System in place.

1.10.2 Hazrem Environmental Limited will develop and implement their own management system taking into account the relevant legal requirements, quality and safety standards and environmental elements that the facility needs to identify and comply with in order to carry out safe and environmentally sound operations.

1.11 Point Source Emissions From the Facility

1.11.1 There one point source emission to air at the Nine Mile Point Waste Processing Facility from the stack on the waste dryer odour abatement system.

Table 1.11.1: Point Source Emissions to Air

Air Emission Point Reference and Location	Receiving Media	Source of Emission
A1	Release into the Atmosphere	Dryer exhaust gas from stack

1.11.2 There will be two point source emissions to water, clean surface water and roof drainage via the existing surface water drain, and leachate from waste storage via sewer.

Table 1.11.2: Point Source Emissions to Water

Emission Point Ref.	Potential Emissions	Pollution prevention measures	Comments	Discharges to
SW Outfall Approximate NGR: ST 19178 91244	Sediment and oils	Class 1 full retention interceptor with alarm	Surface water run-off from site and oil interceptor and clean roof water (inspected visually)	Storage crates then into existing surface water drain. Drawing reference CRM 083 002 PR D 003 Site Drainage.

Emission Point Ref.	Potential Emissions	Pollution prevention measures	Comments	Discharges to
S1 Public Sewer Approximate NGR: ST 19245 91225	Leachate from waste storage	Emissions controlled by Dwr Cymru	Process emissions from waste storage and treatment.	Public sewer via a trade effluent issued by Dwr Cymru

1.12 Environmental Risk Assessments

- 1.12.1 An Environmental Risk Assessment has been completed as part of the preparatory work undertaken to support this Permit Application. The assessments undertaken have followed guidance specified within the Environment Agency's H1: Horizontal Guidance Series.
- 1.12.2 In addition to the completion of an H1 Assessment, the applicant has gone on to undertake site specific modelling to fully consider the potential impacts that the facility may have on local Air Quality considering emissions from the stack and odour.
- 1.12.3 The risk assessments have concluded that with the proposed abatement systems to be installed at the Facility, the proposed activities will not result in an unacceptable impact on nearby sensitive receptors. All risk assessments including modelling work is provided in Chapter 5 of this Permit Application.
- 1.12.4 NRW also requires a standalone Odour Management Plan to be prepared and submitted as part of this Permit Application. A site specific Odour Management Plan is provided in this application.

1.13 Operation Techniques and BAT Assessment

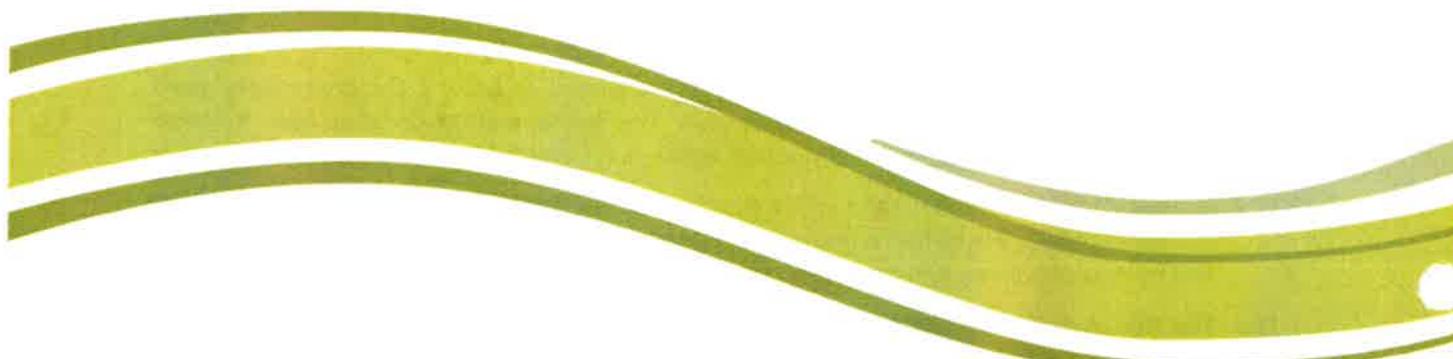
- 1.13.1 Details contained within the Operations Techniques and Monitoring Plan included with the application describe operations and pollution prevention techniques and demonstrate evidence of BAT.

1.14 Monitoring

- 1.14.1 The Environmental Permit will stipulate the required monitoring schedule for the Facility, however anticipated requirements for all point source emissions and process monitoring are considered within the Operations Techniques and Monitoring Plan.

1.15 Closure and Decommissioning

- 1.15.1 In the event that activities cease on site and de-commissioning is required, a detailed 'Closure Plan' will be submitted to NRW and other regulatory bodies as appropriate. This will include details of how the facility will be dismantled, how wastes produced from dismantling will be either recycled/reused or where appropriate disposed. Finally, the site will be decontaminated to the status specified in the Application Site Condition Report.



Enzygo specialise in a wide range of technical services:

- Property and Sites**
- Waste and Mineral Planning**
- Waste Technologies and Renewables**
- Landscape and Visual Impact**
- Environmental Assessment Co-ordination**
- Hydrology and Flood Risk**
- Waste Contract Procurement**
- Noise and Vibration**
- Environmental Permitting and Regulation**
- Development Planning & Policy**
- Ecology Services**
- Contaminated Land and Geotechnical**
- Traffic and Transportation**

BRISTOL OFFICE

The Byre,
Woodend Lane,
Cromhall,
Gloucestershire GL12 8AA
Tel: 01454 269 237

SHEFFIELD OFFICE

STEP Business Centre
Wortley Road
Deepcar
Sheffield S36 2UH
Tel: 0114 290 3677

MANCHESTER OFFICE

76 King Street,
Manchester,
M2 4NH

Tel: 0161 413 6444

Please visit our website for more information.

enzygo.com