

BLAISE BIOGAS AD FACILITY

List of Wastes

June 2019



Client: Wardley Biogas Limited
Document Reference: HC1639-06

REPORT SCHEDULE

Operator: BioConstruct NewEnergy Limited

Client: Blaise Biogas Limited

Project Title: Blaise Biogas AD Facility Permit Application

Document Title: List of Waste Codes

Document Reference: HC1639-06

Report Status: Final V1.1

Project Director: Joanna Holland

Project Manager: Jo Chapman

AUTHOR	DATE
Jo Chapman	13 th June 2019
REVIEWER	DATE
Joanna Holland	21 st August 2019
APPROVED	DATE
Joanna Holland	21 st August 2019

REVISION HISTORY	DATE	COMMENTS	APPROVED
Draft Version 1.0	21 st August 2019	For Submission to Client	Joanna Holland
Final Version 1.0	7 th September 2019	For Submission to EA	Joanna Holland
Final Version 1.1	12 th November 2019	For Submission to EA with update	Rob Bolton

DISCLAIMER

This report has been prepared by H&C Consultancy Ltd with all reasonable skill, care and diligence. It has been prepared in accordance with instructions from the client and within the terms and conditions agreed with the client. The report is based on information provided by the Client and our professional judgment at the time this report was prepared.

The report presents H&C Consultancy's professional opinion and no warranty, expressed or implied, is made.

This report is for the sole use of Blaise Biogas Limited, BioConstruct NewEnergy Limited, and H&C Consultancy Ltd shall not be held responsible for any user of the report or its content for any other purpose other than that which it was prepared and provided to the client. H&C Consultancy accepts no liability to third parties.

CONTENTS

1. Introduction.....	1
2. List of wastes.....	2

1. INTRODUCTION

1.1. List of Wastes

- 1.1.1. The Applicant is seeking to process up to 75,000 tonnes of food wastes per annum in the form of solid packaged and unpackaged materials, and pumpable liquid wastes.
- 1.1.2. The waste types are all within Appendix B of WRAP's 'Anaerobic Digestate – End of waste criteria for the production and use of quality outputs from Anaerobic Digestion of source-segregated biodegradable waste' (The Digestate Quality Protocol).
- 1.1.3. The operator has included glycerol feedstock streams on the list of wastes for the site permit, as this is a potential feedstock that may be added to the plant configuration in the future if a suitable supply can be found.
- 1.1.4. There are two EWC codes for potential sources of glycerol that appear on the Digestate Quality Protocol Appendix B that have both been added to the list below. There are restrictions on the nature of wastes that can be accepted under these codes on the Appendix B, and since the operator intends to be PAS110 compliant, wastes accepted under these codes will only be accepted according to these restrictions. The relevant restrictions have been indicated in the list below.
- 1.1.5. One of the potential streams of waste glycerol is a hazardous waste. This material has been deemed hazardous due to potentially low pH of the material. Assessment and management of pH for process suitability will be assessed at the pre-acceptance stage, acceptance stage, and process monitoring stage to ensure suitability of this material for a stable process.
- 1.1.6. It is anticipated that the daily feed rate of this material would be up to approximately 20 tonnes a day.

2. LIST OF WASTES

2.1. Feedstock EWC Codes

2.1.1. The following wastes may be accepted at the facility:

EWC Code	Description
02 01 01	Sludges from washing and cleaning – vegetables fruit and other crops
02 01 02	Animal tissue waste
02 01 03	Plant tissue waste
02 01 06	Animal faeces, urine and manure (including spoiled straw) only
02 01 99	Residues from commercial mushroom cultivation
02 02 01	Sludges from washing and cleaning
02 02 02	Animal tissue waste
02 02 03	Materials unsuitable for consumption or processing
02 02 04	Sludges from on-site effluent treatment
02 02 99	Sludges from gelatine production, animal gut contents
02 03 01	Sludges from washing, cleaning, peeling, centrifuging and separation
02 03 04	Materials unsuitable for consumption or processing
02 03 05	Sludges from on-site effluent treatment
02 03 99	Sludge from production of edible fats and oils to include seasoning residues, molasses residues, residues from production of potato, corn or rice starch
02 04 03	Sludges from onsite effluent treatment
02 04 99	Other biodegradable wastes
02 05 01	Materials unsuitable for consumption or processing
02 05 02	Sludges from on-site effluent treatment
02 06 01	Materials unsuitable for consumption or processing
02 06 03	Sludges from on-site effluent treatment
02 07 01	Wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	Wastes from spirits distillation
02 07 04	Materials unsuitable for consumption or processing
02 07 99	Spent grains, hops and whisky filter sheets/cloths, yeast and yeast like residues, sludge from production process

EWC Code	Description
03 03 10	Fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
03 03 11	Sludges from on-site effluent treatment other than those mentioned in 03 03 10
04 01 01	Fleshings and lime split wastes
04 02 10	Organic matter from natural products (for example grease, wax)
07 01 08*	Glycerol waste from biodiesel manufacture from non-waste vegetable oils only
16 10 02	Aqueous liquid wastes other than those mentioned in 16 10 01
19 02 03	Premixed wastes composed only of non-hazardous wastes
19 02 06	Sludges from physico/chemical treatment other than those mentioned in 19 02 05
19 02 10	Combustible waste other than those mentioned in 19 02 08 and 19 02 09: Restriction – glycerol only
19 05 01	Non-composted fraction of municipal and similar wastes
19 05 02	Non-composted fraction of animal and vegetable waste
19 05 03	Off-specification compost
19 05 99	Wastes not otherwise specified
19 06 03	Liquor from anaerobic treatment of municipal waste
19 06 04	Digestate from anaerobic treatment of municipal waste
19 06 05	Liquor from anaerobic treatment of animal and vegetable waste
19 06 06	Digestate from anaerobic treatment of animal and vegetable waste
19 08 09	Grease and oil mixture from oil/water separation containing edible oils and fats
19 08 12	Sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 12 12	Other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
20 01 08	Biodegradable kitchen and canteen waste
20 01 25	Edible oil and fat
20 02 01	Biodegradable waste
20 03 01	Mixed municipal waste
20 03 02	Wastes from markets



Registered office:
Staffordshire House
Beechdale Road
Nottingham NG8 3FH
Company No. 7861810

☎ 0115 923 2253

☎ 07506 658098 / 07525 211381

🌐 www.hc-consultancy.co.uk