



Industrial Emissions Licence

APPLICATION FORM

Organisation: Starrus Eco Holdings Limited

Reg. No.: W0249-02

Application Receipt Date: 11 August 2021

Environmental Protection Agency

P.O. Box 3000, Johnstown Castle Estate, Co. Wexford

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ABOUT THIS APPLICATION FORM

Application for an Industrial (including Intensive Agriculture) Licence or a Waste Licence or Review of a Licence

This application/review application covers three licence types; Industrial Emissions (IE), Integrated Pollution Control (IPC) and Waste, under the Environmental Protection Agency Act 1992 as amended and the Waste Management Act 1996 as amended.

This application has been developed by the EPA for the purposes of:

- Making an application to the EPA for a licence or review of a licence or revised licence. In this case, licence means Industrial Emissions (IE), Integrated Pollution Control (IPC) or Waste Licence.

Further information and guidance on the licence application and review process is available on the EPA's website at: www.epa.ie.

Your licence application/review and all supporting information should be submitted to the EPA via EDEN, hereafter called 'Application Form'.

About the Application Form

The 'Application Form' must be completed in accordance with the instructions included in EDEN and available on the EPA website. A valid application for a licence must contain the information prescribed in the relevant Licensing Regulations available on the EPA website. The Regulations sets out the statutory requirements for information to accompany a licence application. The application form is designed in such a way as to set out these questions in a structured manner and not necessarily in the order presented in Regulation.

This 'Application Form' does not purport to be and should not be considered a legal interpretation of the provisions and requirements of the Environmental Protection Agency Act 1992 as amended or Waste Management Act 1996 as amended and the associated Regulations. While every effort has been made to ensure the accuracy of the material contained in the 'Application Form', the EPA assumes no responsibility and gives no guarantees, undertakings and warranties concerning the accuracy, completeness or up-to-date nature of the information provided herein and does not accept any liability whatsoever arising from any errors or omissions.

Should there be any contradiction between the information requirements set out in the 'Application Form' and any clarifying explanation on the EPA website then the requirements in this 'Application Form' shall take precedence. The requirements of the Regulations, shall take precedence over any considerations mentioned in this 'Application Form' or on the website.

Public Access

Information supplied in this 'Application Form' including supporting documentation and attachments will be put on public display on the internet and is therefore open to inspection by any person.

Confidential Information

Should you consider information to be confidential, this information should be submitted in a separate enclosure to the headquarters of the EPA bearing the legend "In the event this information is deemed not to be held as confidential, it must be returned to". In the event that the information is considered to be of a confidential nature, then the nature of this information, and the reasons why it is considered confidential (with reference to the "Access to Information on the Environment" Regulations) should be stated in the submission and the 'Application Form', where relevant.

Attachment format and file size

All files attached to this 'Application Form' should be submitted in searchable PDF format and be no larger than 10MB each in size.

The information you provide in this 'Application Form' will be used by the EPA to assess your application and may be used for other EPA purposes.

Please note that the EPA is subject to Freedom of Information Act 2014 and the Access to Environmental Information Regulations 2007 as amended. Any information that you save to EDEN at any time will be stored on the EPA's IT system and will be made available as required under law, including the above legislation.

The system generated Application ID for this licence application/review is: **LA005501**

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1. Introduction

1.1. New/Review Authorisation Application

Existing Licence Reg No: W0249-01

Reasons for the licence review:

- Additional Class of Activity
- Increase in capacity
- Increase in emissions
- Waste acceptance change
- New/relocated emission point(s)
- Site related change (hours of operation, boundary, etc.)
- New abatement equipment
- Other

Upload details of why you are applying for a licence review, in accordance with the guidance.

Document Type	Document Name
Reason for Review	1.1-Review-Authorisation-Application

1.2. Non-Technical Summary

Upload a copy of the non-technical summary, in accordance with the guidance.

Document Type	Document Name
Non Technical Summary	1-2-Non-technical-summary

2. Organisation

2.1 Organisation Details

Business type

Body Corporate

Company CRO (Registration) number

527552

Organisation Name

Starrus Eco Holdings Limited

Organisation Address

Panda Waste Management Solutions

Ballymount Road Upper

Dublin 23

Dublin

Organisation Registered Address

Panda Waste Management Solutions

Ballymount Road Upper

Dublin 23

Dublin

Organisation's Website Address

Not Provided

Upload a Certificate of Incorporation, in accordance with the guidance, if applicable

Document Type	Document Name
Certificate of Incorporation	2.1 Cert of Incorporation SEHL



Check that the CRO number presented above is identical to the CRO number provided in: (i) the initial Licence Application to the EPA for this installation/facility

Or

(ii) the Licence Transfer application which transferred this licence to the applicant organisation.

Tick box if you can confirm this.

If not, please contact the EPA at licensing@epa.ie as a Licence Transfer may be required

If the applicant is NOT the operator, please upload an attachment that states the name, address and telephone number of the operator and, if the operator is a body corporate, the address of its registered office or principal office (Optional):

Document Type	Document Name
<i>No files uploaded</i>	



Tick to confirm that the above organisation details are correct

NUTS 2 Code	NACE Code
IE061	3832

State the number of employees and other persons working or engaged in connection with activity on the date after which a licence is required and during normal levels of operation

8

2.2 Primary Contact for Correspondence on this Application

Primary Contact

Mr. Jim O'Callaghan

Address of Primary Contact

Unit 15 Melbourne Business Park

Model Farm Road

Position in Organisation

Consultant

Cork

Cork

T12 WR89

Business Mobile Number

Not Provided

Landline Number

021 4345366

Email Address

jim@ocallaghanmoran.com

2.3 Primary Contact for Correspondence – Post Determination

Primary Contact

Mr. David Naughton

Address of Primary Contact

Millennium Business Park

Grange

Position in Organisation

Ballycvoolin

Manager

Dublin 11

Dublin

Business Mobile Number

086 6045905

Landline Number

Not Provided

Email Address

David.naughton@pandagreen.ie

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2.4 Holding (Parent) Company

Does the organisation have a holding (parent) company?

No

2.5 Fit and Proper Person

Convictions and Financial Commitment

Has the applicant or other relevant person been convicted as per guidance?

No

Indicate whether the applicant or other relevant person has current or past bankruptcy or other insolvency proceedings against them or has entered into an arrangement with its creditors or suspended its business activities

No

- Please confirm that the applicant, or other relevant persons, will be in a position to meet any financial commitments or liabilities that may have been or will be entered into or incurred in carrying on the activity to which the application relates or in consequence of ceasing to carry out that activity

Financial Commitments Declaration

Please download the attached declaration form, sign and upload the signed copy as a PDF document

Document Type	Document Name
Fit and Proper Declaration	2-5-Financial-Commitments-Declaration

Technical Knowledge

Upload details of the applicant's technical knowledge and/or qualifications, along with that of other relevant employees.

Document Type	Document Name
Technical Knowledge	2.5-2-Technical-Knowledge

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3. Site

3.1 Site Name and Address

State the site name (update if necessary)

Starrus Eco Holdings Limited (Littleton)

Site Address

Ballybeg

Littleton

Tipperary

E41 WP83

NUTS 2 Code

IE05

NUTS 3 Code

IE051

NACE Code

3832

Site Telephone Number

Not Provided

3.2 Site Geographical Location

Site Centre Point – Easting

(Irish Grid Reference – 6 digits)

218948

Site Centre Point – Northing

(Irish Grid Reference – 6 digits)

151968

Does the site cover multiple townlands?

No

Upload a copy of the site plan(s) in accordance with the guidance:

Document Type	Document Name
Site Plan	3-2-1-Site-Plan
Site Plan	3-2-2-Site-Plan

Upload a copy of the location map in accordance with the guidance:

Document Type	Document Name
Site Map	3-2-3 Site Location

3.3 Site Contact

Primary Contact

Mr. Sam Bowden

Position in Organisation

Manager

Business Mobile Number

0861071231

Landline Number

Not Provided

Email Address

sam.bowden@pandagreen.ie

3.4 Site and Building Ownership

Is the applicant (or will the applicant be, in the case of a new activity) the owner of the site where the proposed activity is to take place?

Yes

Is the applicant (or will the applicant be, in the case of a new activity) the owner of the building where the proposed activity is to take place?

Yes

4. Activity and Capacity

4.1 Sectors and Classes of Activity

Add sectors and corresponding Classes of Activity relevant to the operation. Then select one Main Class of Activity using the radio buttons.

Sector	Activity and Description	IED Category of Activity	Main Class of Activity
--------	--------------------------	--------------------------	------------------------

Waste	11.1 – The recovery or disposal of waste in a facility, within the meaning of the Act of 1996, which facility is connected or associated with another activity specified in this Schedule in respect of which a licence or revised licence under Part IV is in force or in respect of which a licence under the said Part is or will be required.	n/a	No
Waste	11.4 (b)(i) – Recovery, or a mix of recovery and disposal, of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities, (other than activities to which the Urban Waste Water Treatment Regulations 2001 (S.I. No. 254 of 2001) apply): biological treatment; when the only waste treatment activity carried out is anaerobic digestion, the capacity threshold for this activity shall be 100 tonnes per day.	5.3 (b)(i)	Yes

4.2 Application Type Confirmation

Based on the activities selected above the application type has been determined as:

Industrial Emissions Licence

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4.3 Waste Activities

Nature of Waste Activity

Are you or do you propose to be a merchant waste operator? (i.e., do you or do you propose to accept waste on a commercial basis from others?)

Yes

Do you or do you propose to treat waste generated by on-site activities?

No

Do you or do you propose to accept any household wastes (residual, recyclables, organics) directly from the public at the site?

No

Do you or do you propose to accept animal by-products or waste containing animal by-products on site?

Yes

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Add all recovery and disposal activities and capacities relevant to the operation. Select one principal waste activity (for Waste Management Act activities only) using the relevant radio button.

Recovery and Disposal Activity and Description	Treatment Type	Capacity (note: <u>not</u> throughput or proposed throughput)	Maximum Quantity of waste to be accepted for this activity (tonnes/annum)	Principle Activity
R03 – Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)	R03 - Composting (aerobic)	450 tonnes/day	80,000	Yes

Upload a document that sets out how you calculated the capacity for each recovery and disposal activity selected in the table above:

Document Type	Document Name
R and D Activity Capacity	4.3-1-Storage-calculations

Waste acceptance at the waste facility

Upload a copy of your waste acceptance procedure

Document Type	Document Name
Waste Acceptance Procedure	4.3-2-Waste-Acceptance-Procedure

List of Wastes by R&D Code and Treatment Type

For each waste treatment process (by Recovery or Disposal Activity) identified previously, indicate the waste(s) (by List of Waste Code) that could be subject to that treatment process.

'List of Waste' (LOW) Code	'List of Waste' Description before Treatment	Treatment Type	Applicant's Description of Waste Accepted
----------------------------	--	----------------	---

02 01 01	sludges from washing and cleaning	R03 - Composting (aerobic)	Sludges from washing and cleaning
02 01 03	plant-tissue waste	R03 - Composting (aerobic)	Plant-tissue waste
02 01 07	wastes from forestry	R03 - Composting (aerobic)	Waste from forestry
02 01 99	wastes not otherwise specified	R03 - Composting (aerobic)	Wastes not otherwise specified
02 02 01	sludges from washing and cleaning	R03 - Composting (aerobic)	Sludges from washing/cleaning
02 02 03	materials unsuitable for consumption or processing	R03 - Composting (aerobic)	Materials unsuitable for consumption or processing
02 02 04	sludges from on-site effluent treatment	R03 - Composting (aerobic)	meat industry sludges
02 02 99	wastes not otherwise specified	R03 - Composting (aerobic)	Wastes not otherwise specified
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation	R03 - Composting (aerobic)	Sludges from food preparation industry
02 03 04	materials unsuitable for consumption or processing	R03 - Composting (aerobic)	Animal feed
02 03 05	sludges from on-site effluent treatment	R03 - Composting (aerobic)	Sludges from on-site effluent treatment
02 03 99	wastes not otherwise specified	R03 - Composting (aerobic)	Wastes not otherwise specified

02 05 01	materials unsuitable for consumption or processing	R03 - Composting (aerobic)	Dairy industry
02 05 02	sludges from on-site effluent treatment	R03 - Composting (aerobic)	Dairy industry sludge
02 05 99	wastes not otherwise specified	R03 - Composting (aerobic)	Wastes not otherwise specified
02 06 01	materials unsuitable for consumption or processing	R03 - Composting (aerobic)	Materials unsuitable for consumption or processing
02 06 03	sludges from on-site effluent treatment	R03 - Composting (aerobic)	Sludges from on-site effluent treatment
02 06 99	wastes not otherwise specified	R03 - Composting (aerobic)	Waste not otherwise specified
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials	R03 - Composting (aerobic)	Drinks industry
02 07 02	wastes from spirits distillation	R03 - Composting (aerobic)	Wastes from spirits distillation
02 07 04	materials unsuitable for consumption or processing	R03 - Composting (aerobic)	Drinks industry
02 07 05	sludges from on-site effluent treatment	R03 - Composting (aerobic)	Sludges from on-site effluent treatment drinks industry
02 07 99	wastes not otherwise specified	R03 - Composting (aerobic)	Waste not otherwise specified
03 03 11	sludges from on-site effluent treatment other than those mentioned in 03 03 10	R03 - Composting (aerobic)	Sludges from on-site effluent treatment

07 01 99	wastes not otherwise specified	R03 - Composting (aerobic)	Wastes not otherwise specified
07 05 99	wastes not otherwise specified	R03 - Composting (aerobic)	Wastes not otherwise specified
07 06 99	wastes not otherwise specified	R03 - Composting (aerobic)	Wastes not otherwise specified
10 01 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)	R03 - Composting (aerobic)	Bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
16 03 06	organic wastes other than those mentioned in 16 03 05	R03 - Composting (aerobic)	Organic wastes other than those mentioned in 160305
19 05 03	off-specification compost	R03 - Composting (aerobic)	Off-specification compost
19 05 99	wastes not otherwise specified	R03 - Composting (aerobic)	Wastes not otherwise specified
19 06 03	liquor from anaerobic treatment of municipal waste	R03 - Composting (aerobic)	Liquor from anaerobic treatment of municipal waste
19 06 04	digestate from anaerobic treatment of municipal waste	R03 - Composting (aerobic)	Digestate from anaerobic treatment of municipal waste
19 06 05	liquor from anaerobic treatment of animal and vegetable waste	R03 - Composting (aerobic)	Liquor from anaerobic treatment of animal and vegetable waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste	R03 - Composting (aerobic)	Digestate from anaerobic treatment of animal and vegetable waste
19 06 99	wastes not otherwise specified	R03 - Composting (aerobic)	Wastes not otherwise specified

19 08 05	sludges from treatment of urban waste water	R03 - Composting (aerobic)	Municipal wastewater treatment sludges
19 08 09	grease and oil mixture from oil/water separation containing only edible oil and fats	R03 - Composting (aerobic)	Grease and oil mixture from oil/water separation containing only edible oil and fats
19 08 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11	R03 - Composting (aerobic)	Sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13	R03 - Composting (aerobic)	Sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 08 99	wastes not otherwise specified	R03 - Composting (aerobic)	Wastes not otherwise specified
19 09 01	solid waste from primary filtration and screenings	R03 - Composting (aerobic)	Wastes from municipal wastewater treatment plants
19 09 04	spent activated carbon	R03 - Composting (aerobic)	Spent activated carbon
19 12 07	wood other than that mentioned in 19 12 06	R03 - Composting (aerobic)	Woodchip
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R03 - Composting (aerobic)	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	R03 - Composting (aerobic)	Kitchen and canteen waste
20 01 25	edible oil and fat	R03 - Composting (aerobic)	Edible oil and fat

20 02 01	biodegradable waste	R03 - Composting (aerobic)	Biodegradable waste
20 03 02	waste from markets	R03 - Composting (aerobic)	Waste from food markets
20 03 04	septic tank sludge	R03 - Composting (aerobic)	Septic tank sludge
20 03 06	waste from sewage cleaning	R03 - Composting (aerobic)	Waste from sewage cleaning

In the tables below summarise the waste activity or activities to reflect your licence application, categorised by treatment process, waste source and waste type. Note these tables should represent actual throughput, not capacity

Waste Source	Maximum to be Accepted (tonnes/annum)
Municipal	75,000
Construction and Demolition	0
Other	5,000
Total	80,000

Waste Type	Maximum to be Accepted (tonnes/annum)
Hazardous	0
Non Hazardous	80,000
Total	80,000

Upload further information, as needs be, including detailed calculations, to support the data presented in the tables above:

Document Type	Document Name
Waste Activity Calculations	Maximum Wastes Accepted

Upload evidence that demonstrates that the waste hierarchy has been considered when choosing treatment options for waste treated or transferred off-site:

Document Type	Document Name
Waste Hierarchy Consideration	4.3-5-Waste-hierarchy-consideration

Storage of Waste and Non Waste

Specify the maximum total quantity of waste (in tonnes) to be held on site at any one time, including untreated waste, waste being processed and residual (post-treatment) waste
12,000

Complete and upload the template with details of the maximum quantities of waste and non-waste that will be stored on site at any one time

Document Type	Document Name
Max Waste Storage	4.3-3-Storage-Waste-Non-Waste

Upload a document explaining how you calculated the waste, non-waste and capacity figures provided

Document Type	Document Name
Waste Capacity Calculations	4.3-4-Capacity-calculations

4.4 Capacity

Section Not Required - based on applicant's response

4.5 Other Regulations or Directives

Select all other regulations and directives that are relevant for activities carried out or proposed to be carried out at the installation or facility

1 **EC (Control of Major Accident Hazards involving Dangerous Substances) Regulations (S.I. No. 74 of 2006)**

No

2 **Greenhouse gas emissions regulations permit**

No

3 **GMO regulations permit**

No

4 **Waste authorisation (certificate of registration, waste facility permit) regulations**

No

5 **Operator of equipment and systems containing ozone depleting substances, in accordance with Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer**

No

6 **Operator of equipment and systems containing fluorinated greenhouse gases, in accordance with Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases**

No

7 **European Communities Mercury (Export Ban and Safe Storage) Regulations (S.I. No. 27 of 2012)**

No

- 8 **S.I. No 564 of 2012: European Union (Paints, Varnishes, Vehicle Refinishing Products and Activities) Regulations 2012**
- No
- 9 **Regulation (EC) No 1102/2008 of the European Parliament and of the Council of 22 October 2008 on the banning of exports or metallic mercury and certain mercury compounds and mixtures and the safe storage of metallic mercury**
- No
- 10 **Operator of an agro-food processing plant where Article 13 of the Council Directive 91/271/EEC concerning urban waste water treatment (> 4,000p.e WWTP discharging to surface water) applies**
- No
- 11 **Local Government (Water Pollution) Act, 1977 (Control of Cadmium Discharges) Regulations 1985 (S.I. No. 294 of 1985);**
- No
- 12 **Local Government (Water Pollution) Act, 1977 (Control of Hexachlorocyclohexane and Mercury Discharges) Regulations 1986 (S.I. No. 55 of 1986)**
- No
- 13 **Local Government (Water Pollution) Acts, 1977 and 1990 (Control of Carbon Tetrachloride, DDT and Pentachlorophenol Discharges) Regulations 1994 (S.I. No. 43 of 1994)**
- No
- 14 **Medium Combustion Plant Directive (EU) 2015/2193 on the limitation of emissions of certain pollutants into the air from medium combustion plants.**
- No

Extractive Waste Regulations

Do the Extractive Waste Regulations (Waste Management (Management of Waste from the Extractive Industries) Regulations) apply to your activities?

No

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4.6 Resource and Energy Usage

Water Usage

Do you or do you propose to abstract groundwater for use at the installation or facility?

No

Do you or do you propose to abstract surface water for use at the installation or facility?

No

Do you or do you propose to use water from the public supply for use at the installation or facility?

No

Do you or do you propose to use water from another source for use at the installation or facility?

No

Electricity Usage

Do you or do you propose to generate renewable electricity at the installation or facility?

No

Do you or do you propose to generate non-renewable electricity at the installation or facility?

No

Water and Energy Usage

Upload tabulated details of water and energy used or generated on the site.

Document Type	Document Name
Water and Energy Usage	4.6-1-Water-Energy

Raw Materials, Intermediates and Products

Upload tabulated details of process related raw and ancillary materials, substances, preparations, intermediates, products etc., which will be produced by or utilised in the activity

Document Type	Document Name
Materials Used or Generated	4.6-2-Raw-Material-Interm-Products

4.7 BAT (Best Available Techniques)

BAT Conclusions

Licence BAT Assessment		
CID 2018/1147/EU	Commission Implementing Decision (EU) 2018/1147 of 10 August 2018 establishing best available techniques (BAT) conclusions for waste treatment, under Directive 2010/75/EU of the European Parliament and of the Council (notified under document C(2018) 5070) (Text with EEA relevance.)	
General BAT Conclusions		
BATC No.	Objective / Licensee Response / Attachment	Applicability
1	<p>In order to improve the overall environmental performance, BAT is to implement and adhere to an environmental management system (EMS) that incorporates all of the following features: See linked document for the full text of the BAT conclusion</p> <p>Response : An Environmental Management System has been prepared in accordance with Condition 2.2.1 of the existing licence</p>	Yes
2	<p>In order to improve the overall environmental performance of the plant, BAT is to use all of the techniques given below. See linked document for the full text of the BAT conclusion</p> <p>Response : Procedures for Waste Acceptance and Characterisation (SOP ARB01), Batch Traceability (SOP ARB05), Compost Sampling (SOP ARB07), Verification of ABP processing temperatures (SOP ARB17), Management of compost in maturation area (SOP ARB18), Testing of compost for physical contaminants (SOP ARB19) have been prepared and are included in Appendix 4 of the Operational Report (Attachment 4.8.1 of the Application)</p>	Yes
3	<p>In order to facilitate the reduction of emissions to water and air, BAT is to establish and to maintain an inventory of waste water and waste gas streams, as part of the environmental management system (see BAT 1), that incorporates all of the following features: See linked document for the full text of the BAT conclusion</p> <p>Response : The facility is not connected to the municipal foul sewer. Sanitary wastewater from the welfare facilities</p>	Not Applicable

	<p>is collected in an underground holding tank. The contents are transferred to the waste intake area, mixed with the incoming waste and then composted.</p> <p>There are no fixed point emission sources to air associated with the operations.</p>	
4	<p>In order to reduce the environmental risk associated with the storage of waste, BAT is to use all of the techniques given below. See linked document for the full text of the BAT conclusion</p> <p>Response : Duty and standby capacities in tonnes per day have been established in accordance with Condition 3.8.2 of the existing licence.</p>	Yes
5	<p>In order to reduce the environmental risk associated with the handling and transfer of waste, BAT is to set up and implement handling and transfer procedures. See linked document for the full text of the BAT conclusion</p> <p>Response : Procedures for Waste Acceptance and Characterisation (SOP ARB01) and Management of compost in maturation area (SOP ARB18), have been prepared and are included in Appendix 4 of the Operational Report (Attachment 4.8.1 of the Application)</p>	Yes
6	<p>For relevant emissions to water as identified by the inventory of waste water streams (see BAT 3), BAT is to monitor key process parameters (e.g. waste water flow, pH, temperature, conductivity, BOD) at key locations (e.g. at the inlet and/or outlet of the pretreatment, at the inlet to the final treatment, at the point where the emission leaves the installation). See linked document for the full text of the BAT conclusion</p> <p>Response : See BAT 3</p>	Not Applicable
7	<p>BAT is to monitor emissions to water with at least the frequency given below, and in accordance with EN standards. If EN standards are not available, BAT is to use ISO, national or other international standards that ensure the provision of data of an equivalent scientific quality. See linked document for the full text of the BAT conclusion</p>	Not Applicable

	Response : The composting process does not generate a wastewater.	
8	BAT is to monitor channelled emissions to air with at least the frequency given below, and in accordance with EN standards. If EN standards are not available, BAT is to use ISO, national or other international standards that ensure the provision of data of an equivalent scientific quality. See linked document for the full text of the BAT conclusion Response : See BAT 3	Not Applicable
9	BAT is to monitor diffuse emissions of organic compounds to air from the regeneration of spent solvents, the decontamination of equipment containing POPs with solvents, and the physical-chemical treatment of solvents for the recovery of their calorific value, at least once per year using one or a combination of the techniques given below. See linked document for the full text of the BAT conclusion Response : Solvents are not used in the composting process	Not Applicable
10	BAT is to periodically monitor odour emissions. See linked document for the full text of the BAT conclusion Response : Odour monitoring is carried out in accordance with Condition 6.6 and Schedule C.1.3 of the existing Licence. A comprehensive Odour and Bio aerosols monitoring program is carried out on site by independent consultants. This program monitors the efficiency of the biofilter on site as well as ambient bioaerosols.	Yes
11	BAT is to monitor the annual consumption of water, energy and raw materials as well as the annual generation of residues and waste water, with a frequency of at least once per year. See linked document for the full text of the BAT conclusion Response : The Annual Environmental Report contains details on the annual consumption of water, energy and raw materials as well as the annual generation of residues in accordance with Schedule F of the existing Licence.	Yes
12	In order to prevent or, where that is not practicable, to reduce odour emissions, BAT is to set up, implement and	Yes

	<p>regularly review an odour management plan, as part of the environmental management system (see BAT 1), that includes all of the following elements: See linked document for the full text of the BAT conclusion</p> <p>Response : The odour management system is discussed in Section 4.13.4 of the Operational Report (Attachment 4.8.1 of the Application).</p>	
13	<p>In order to prevent or, where that is not practicable, to reduce odour emissions, BAT is to use one or a combination of the techniques given below. See linked document for the full text of the BAT conclusion</p> <p>Response : The odour management system is discussed in Section 4.13.4 of the Operational Report (Attachment 4.8.1 of the Application).</p>	Yes
14	<p>In order to prevent or, where that is not practicable, to reduce diffuse emissions to air, in particular of dust, organic compounds and odour, BAT is to use an appropriate combination of the techniques given below. See linked document for the full text of the BAT conclusion</p> <p>Response : The controls used to prevent or, where that is not practicable, to reduce diffuse emissions to air are discussed in Section 4.13.4 of the Operational Report (Attachment 4.8.1 of the Application) and Section 10.6.2 of the EIAR (Attachment 6.2.1 of the Application).</p> <p>Procedures for Cleaning and Hygiene (SOP ARB02) and Dust Deposition Monitoring (SOP ARB16) and Management of compost in maturation area (SOP ARB18) have been prepared and are included in Appendix 4 of the Operational Report.</p>	Yes
15	<p>BAT is to use flaring only for safety reasons or for non-routine operating conditions (e.g. start-ups, shutdowns) by using both of the techniques given below. See linked document for the full text of the BAT conclusion</p> <p>Response : Flaring is not used at the facility</p>	Not Applicable
16	<p>In order to reduce emissions to air from flares when flaring is unavoidable, BAT is to use both of the techniques given</p>	Not Applicable

	<p>below. See linked document for the full text of the BAT conclusion</p> <p>Response : Flaring is not used at the facility</p>	
17	<p>In order to prevent or, where that is not practicable, to reduce noise and vibration emissions, BAT is to set up, implement and regularly review a noise and vibration management plan, as part of the environmental management system (see BAT 1), that includes all of the following elements: See linked document for the full text of the BAT conclusion</p> <p>Response : The operations are not a major source of noise emissions</p>	Not Applicable
18	<p>In order to prevent or, where that is not practicable, to reduce noise and vibration emissions, BAT is to use one or a combination of the techniques given below. See linked document for the full text of the BAT conclusion</p> <p>Response : The controls used to prevent or, where that is not practicable, to reduce noise and vibration emissions are discussed in Section 4.13.4 of the Operational Report (Attachment 4.8.1 of the Application) and Section 11.6.2 of the EIAR (Attachment 6.2.1 of the Application)</p>	Yes
19	<p>In order to optimise water consumption, to reduce the volume of waste water generated and to prevent or, where that is not practicable, to reduce emissions to soil and water, BAT is to use an appropriate combination of the techniques given below. See linked document for the full text of the BAT conclusion</p> <p>Response : The composting process does not generate a wastewater.</p>	Not Applicable
20	<p>In order to reduce emissions to water, BAT is to treat waste water using an appropriate combination of the techniques given below. See linked document for the full text of the BAT conclusion</p> <p>Response : The composting process does not generate a wastewater.</p>	Not Applicable
21	<p>In order to prevent or limit the environmental consequences of accidents and incidents, BAT is to use all of the techniques given below, as part of the accident</p>	Yes

	<p>management plan (see BAT 1). See linked document for the full text of the BAT conclusion</p> <p>Response : Procedures for Emergency Preparedness and Response (SOP ARB11), Awareness and Training (SOP ARB10) and Accident Prevention (SOP ARB12) have been prepared and are included in Appendix 4 of the Operational Report (Attachment 4.8.1 of the Application)</p>	
22	<p>In order to use materials efficiently, BAT is to substitute materials with waste. See linked document for the full text of the BAT conclusion</p> <p>Response : Waste woodchip material was accepted at the facility for use as a bulking agent in the composting process. In addition oversize material from Green waste composting is used as an alternative bulking material.</p>	Yes
23	<p>In order to use energy efficiently, BAT is to use both of the techniques given below. See linked document for the full text of the BAT conclusion</p> <p>Response : An energy efficiency plan will be prepared and implemented at the site should the proposed changes proceed</p>	<p>Will Be</p> <p>01 December 2021</p>
24	<p>In order to reduce the quantity of waste sent for disposal, BAT is to maximise the reuse of packaging, as part of the residues management plan (see BAT 1). See linked document for the full text of the BAT conclusion</p> <p>Response : Given the nature of the activity opportunities to re-use packaging is restricted.</p>	Not Applicable

Licence BAT Assessment		
CID 2018/1147/EU	Commission Implementing Decision (EU) 2018/1147 of 10 August 2018 establishing best available techniques (BAT) conclusions for waste treatment, under Directive 2010/75/EU of the European Parliament and of the Council (notified under document C(2018) 5070) (Text with EEA relevance.)	
BAT conclusions for biological treatment of waste		
BATC No.	Objective / Licensee Response / Attachment	Applicability
33	In order to reduce odour emissions and to improve the overall environmental performance, BAT is to select the	Yes

	<p>waste input. See linked document for the full text of the BAT conclusion</p> <p>Response : A Waste Acceptance and Characterisation Procedure (SOP ARB01) has been developed and is implemented at the facility which is included in Appendix 4 of the Operational Report (Attachment 4.8.1 of the Application)</p>	
34	<p>In order to reduce channelled emissions to air of dust, organic compounds and odorous compounds, including H2S and NH3, BAT is to use one or a combination of the techniques given below. See linked document for the full text of the BAT conclusion</p> <p>Response : There are no fixed point emission sources to air associated with the operations.</p>	Not Applicable
35	<p>In order to reduce the generation of waste water and to reduce water usage, BAT is to use all of the techniques given below. See linked document for the full text of the BAT conclusion</p> <p>Response : The composting process does not generate a wastewater.</p>	Not Applicable
36	<p>In order to reduce emissions to air and to improve the overall environmental performance, BAT is to monitor and/or control the key waste and process parameters. See linked document for the full text of the BAT conclusion</p> <p>Response : Procedures for Waste Acceptance and Characterisation (SOP ARB01), Compost Sampling (SOP ARB07), Verification of ABP processing temperatures (SOP ARB17), Management of compost in maturation area (SOP ARB18), Testing of compost for physical contaminants (SOP ARB19) have been prepared and are included in Appendix 4 of the Operational Report (Attachment 4.8.1 of the Application)</p>	Yes
37	<p>In order to reduce diffuse emissions to air of dust, odour and bioaerosols from open-air treatment steps, BAT is to use one or both of the techniques given below. See linked document for the full text of the BAT conclusion</p> <p>Response : All waste reception, processing and storage is carried out inside the composting building.</p>	Not Applicable

38	In order to reduce emissions to air and to improve the overall environmental performance, BAT is to monitor and/or control the key waste and process parameters. See linked document for the full text of the BAT conclusion Response : Anaerobic digestion is not carried out at the facility	Not Applicable
39	In order to reduce emissions to air, BAT is to use both of the techniques given below. See linked document for the full text of the BAT conclusion Response : There are no fixed point emission sources to air associated with the operations.	Not Applicable

BREF

Select all relevant BAT reference document(s) (BREFs), provide an assessment against each

BREF	Document Type	BREF Document Name
<i>No files uploaded</i>		

EPA National BAT

Select all relevant EPA BAT guidance notes and attach the assessments made against them

EPA Bat Guidance Note	Document Type	EPA National BAT Assessment Document Name
<i>No files uploaded</i>		

4.8 Reports

Operational Report

Upload an 'Operational Report' for the activity in accordance with the guidance

Document Type	Document Name
Operational Report	4-8-1-Operational-Report

Baseline Report

Has an assessment and or Baseline Report previously been submitted to the EPA in relation to this site as per the [European Commission's guidance concerning baseline reports](#)

No

Upload a report that addresses sections 1 to 3 of the European Commission's guidance concerning baseline reports

Document Type	Document Name
Baseline Screening	4-8-2-Baseline-Assessment-Stage-1-3

Does the report referred to above specify that a Baseline Report is required?

Yes

Upload the baseline report in accordance with the European Commission's guidance concerning baseline reports

Document Type	Document Name
Baseline Report	4-8-3-Baseline-Assessment

Site Condition Report

Upload a document that describes the condition of the site of the installation or facility in accordance with the guidance

Document Type	Document Name
Site Condition Report	4-8-4-Site-Condition-Report

4.9 Solvents

Do you or do you intend to use organic solvents at the installation or facility?

No

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4.10 Large Combustion Plants

Section Not Required - based on applicant's response

4.11 Incineration and Co-Incineration

Section Not Required - based on applicant's response

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5. Financial

5.1 Financial Template

Completed template

Document Type	Document Name
Financial Application Section	5-1-Financial

5.2 Additional Documents

Upload additional documents referred to in the completed template

Document Type	Document Name
Fee Payment Evidence	Fee_payment_evidence

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6. Stakeholder Engagement

6.1 Stakeholder Engagement Template

Completed template

Document Type	Document Name
Stakeholder Engagement Section	6-1-Stakeholder-Engagement

6.2 Additional Documents

Upload additional documents referred to in the completed template

Document Type	Document Name
AA Screening	6-2-1-AA-Screening-Report
EIA Confirmation - Planning	6-2-8-Ref-21520-EIA-Confirmation
EIS - Planning	6-2-9-1-EIAR-NTS_Main-Report
EIS - Planning	6-2-9-3-EIAR-Appendices-4-12
EIS - Planning	6-2-9-2-EIAR-Appendices-1-3
Evidence of Notices	6-2-2-Decision-07511853
Evidence of Notices	6-2-11 Newspaper Notice
Evidence of Notices	6-2-6-Decision-21520
Evidence of Notices	6-2-5-Planners-Report-20550
Evidence of Notices	6-2-10-Site Notice
Evidence of Notices	6-2-13-Tipperary-CoCo-Notification
Evidence of Notices	6-2-7-Planners-Report-21520
Evidence of Notices	6-2-3-Planners-Report-07511853
Evidence of Notices	6-2-12-Site-Notice-Map
Evidence of Notices	6-2-4-Decision-20550

7. Emissions

7.1 Overview

Emissions, Discharges and Landspreading Applicability

With reference to the emissions/discharges from the installation and any associated landspreading activity indicate whether the thematic is applicable by inserting yes or no (Note: If you select 'no' you are indicating that there are no emissions of this type and your application will be considered on this basis)

Emission Type	Applicable
Emissions to Surface Water (not including Storm Water)	No
Emissions to Sewer	No
Emissions to Air (including minor, potential and fugitive emissions to air)	Yes
Noise Emissions and Noise Monitoring Points	Yes
Emissions to Ground (including disposal of sanitary effluent and potential emissions to ground) and Landspreading	No
Storm Water Discharges	Yes

Emissions Overview Template

Completed template

Document Type	Document Name
Emissions Overview Section	7.1-1-Emissions-Overview

Additional Documents

Upload additional documents referred to in the completed template

Document Type	Document Name
Emissions Compliance Report	7.1-2-Emissions-Compliance-Report
Emissions Impact Assessment	7.1-6-Noise-Imp-Assess
Emissions Impact Assessment	7.1-4-Air-Imp-Assess

Receiving Environment Report	7.1-5-Receiving-Env-Noise
Receiving Environment Report	7.1-3-Receiving-Env-Air

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7.2 Emissions to Surface Water (not including Storm Water)

Section Not Required – based on applicant's response

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7.3 Emissions to Sewer

Section Not Required – based on applicant's response

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7.4 Emissions to Air (including minor, potential and fugitive emissions to air) Emissions to Air (including minor, potential and fugitive emissions to air) Template

Completed template

Document Type	Document Name
Emissions - Air Section	7.4-1-Air-Main

Additional Documents

Upload additional documents referred to in the completed template

Document Type	Document Name
<i>No files uploaded</i>	

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7.5 Noise Emissions and Noise Monitoring Points

Noise Emissions and Noise Monitoring Points Template

Completed template

Document Type	Document Name
Emissions - Noise Section	7.5-Noise

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7.6 Emissions to Ground and Landspreading

Section Not Required – based on applicant's response

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7.7 Storm Water Discharges

Storm Water Discharges Template

Completed template

Document Type	Document Name
Storm Water Section	7.7-1-Storm-Water

Additional Documents

Upload additional documents referred to in the completed template

Document Type	Document Name
<i>No files uploaded</i>	

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8. Waste Generated On-Site

8.1 Waste Generated On-Site Template

Completed template

Document Type	Document Name
Waste Generated Section	8-1-Waste

8.2 Additional Documents

Upload additional documents referred to in the completed template

Document Type	Document Name
Waste Hierarchy	8.1-1-Waste-Hierarchy

9. Environmental Management and Techniques

9.1 Environmental Management and Techniques Template

Completed template

Document Type	Document Name
EMT Section	9-1-EMT

9.2 Additional Documents

Upload additional documents referred to in the completed template

Document Type	Document Name
Financial Provision Proposal	CRAMP_ELRA-Financial-Provision-Proposal
Financial Provision Proposal	9.2-1-ELRA-CRAMP

10. Submit Application

Prior to submitting your completed application, please tick the box below to confirm the following:

- I declare that all the information and particulars given in this application form and all associated attachments are truthful, accurate and complete to the best of my knowledge and belief.
- I give consent to the EPA to copy this application form and all associated attachments for its own use and to make it available for inspection and copying by the public both in paper form and on the EPA's website. This consent relates to the application form itself, all associated attachments and to any further information, submission, objection, or submission to an objection whether provided by me as applicant or any person acting on the applicant's behalf.

I confirm

First Name

Jim

Surname

O'Callaghan

Position

Director O'Callaghan Moran & Associates (Agent)

Upload a copy of scanned signature and company stamp

Document Type	Document Name
Signature and Company Stamp	11-1-Signature-Stamp