



Industrial Emissions Licence

APPLICATION FORM

Organisation: Starrus Eco Holdings Limited

Reg. No.: W0261-03

Application Receipt Date: 09 November 2021

Environmental Protection Agency

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

Lo Call: 1890 335599 Telephone: 053-9160600 Fax: 053-9160699

Web: www.epa.ie

Email: licensing@epa.ie

Contents

ABOUT THIS APPLICATION FORM	3
1. Introduction	5
2. Organisation.....	6
3. Site.....	10
4. Activity and Capacity	11
5. Financial.....	42
6. Stakeholder Engagement	43
7. Emissions	45
8. Waste Generated On-Site.....	53
9. Environmental Management and Techniques	53
10. Submit Application	54

For inspection purposes only. No other use.
Consent of copyright owner required for any other use.

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: **LA007361**

For inspection purposes only.
Consent of copyright owner required for any other use.

1. Introduction

1.1. New/Review Authorisation Application

Existing Licence Reg No: W0261-02

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 24

Dublin

Organisation Registered Address

Panda Waste Management Solutions

Ballymount Road Upper

Dublin 24

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

30

2.2 Primary Contact for Correspondence on this Application

Primary Contact

Mr. David Naughton

Position in Organisation

Manager

Business Mobile Number

086 6045905

Landline Number

Not Provided

Address of Primary Contact

Millennium Business Park

Grange

Ballycvoolin

Dublin 11

Dublin

Email Address

David.naughton@pandagreen.ie

2.3 Primary Contact for Correspondence – Post Determination

Primary Contact

Mr. David Naughton

Position in Organisation

Manager

Business Mobile Number

086 6045905

Landline Number

Not Provided

Email Address

David.naughton@pandagreen.ie

Address of Primary Contact

Millennium Business Park

Grange

Ballycvoolin

Dublin 11

Dublin

*For inspection purposes only.
Consent of copyright owner required for any other use.*

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

For inspection purposes only.
Consent of copyright owner required for any other use.

3. Site

3.1 Site Name and Address

State the site name (update if necessary)

Starrus Eco Holdings Limited (Cappagh)

Site Address

Cappagh Road
Finglas
Dublin 11
Dublin
D11 NP68

NUTS 2 Code

IE06

NUTS 3 Code

IE061

NACE Code

3832

Site Telephone Number

Not Provided

3.2 Site Geographical Location

Site Centre Point – Easting

(Irish Grid Reference – 6 digits)

310314

Site Centre Point – Northing

(Irish Grid Reference – 6 digits)

240410

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	3-1-Site-plan

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

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

3.3 Site Contact

Primary Contact

Mr. David Naughton

Position in Organisation

Manager

Business Mobile Number

086 6045905

Landline Number

Not Provided

Email Address

David.naughton@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)(ii) – 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): pre-treatment of waste for incineration or coincineration;	5.3 (b)(ii)	Yes

4.2 Application Type Confirmation

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

Industrial Emissions Licence

*For inspection purposes only.
Consent of copyright owner required for any other use.*

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

*For inspection purposes only.
Consent of copyright owner required for any other use.*

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
R12 – Exchange of waste for submission to any of the operations numbered R 1 to R 11	R12 - Production of fuel from waste incl SRF and RDF	4,860 tonnes/day	250,200	Yes
R13 – Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	3,846 tonnes	200,000	No

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-Capacity-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
19 12 01	paper and cardboard	R12 - Production of fuel from waste incl SRF and RDF	paper and cardboard
19 12 04	plastic and rubber	R12 - Production of fuel from waste incl SRF and RDF	plastic and rubber
19 12 08	Textiles	R12 - Production of fuel from waste incl SRF and RDF	Textiles
19 12 10	combustible waste (refuse derived fuel)	R12 - Production of fuel from waste incl SRF and RDF	Solid recovered fuel
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R12 - Production of fuel from waste incl SRF and RDF	C&I Lights
20 03 01	mixed municipal waste	R12 - Production of fuel from waste incl SRF and RDF	Mixed packaging
20 03 07	bulky waste	R12 - Production of fuel from waste incl SRF and RDF	C&I Mixed

20 03 99	municipal wastes not otherwise specified	R12 - Production of fuel from waste incl SRF and RDF	municipal wastes not otherwise specified
07 02 13	waste plastic	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Waste plastics
15 01 01	paper and cardboard packaging	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Paper and Cardboard Packaging
15 01 02	plastic packaging	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Plastic Packaging
15 01 03	wooden packaging	R13 - Storage of waste pending	wooden packaging

		any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	
15 01 04	metallic packaging	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	metallic packaging
15 01 05	composite packaging	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Tetra Pak cartons
15 01 06	mixed packaging	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending	mixed packaging

		collection, on the site where the waste is produced)	
15 01 07	glass packaging	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	glass packaging
15 01 09	textile packaging	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Textile
16 01 03	end-of-life tyres	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	end-of-life tyres

For inspection purposes only. Consent of copyright owner is required for any other use.

17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02 03	Plastic	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Plastic
17 04 05	iron and steel	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Steel
17 05 04	soil and stones other than those mentioned in 17 05 03	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding	soil and stones

		temporary storage, pending collection, on the site where the waste is produced)	
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	gypsum-based construction materials
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	mixed construction and demolition waste
19 05 99	wastes not otherwise specified	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	CLOR fines

19 06 99	wastes not otherwise specified	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Screenings
19 08 01	Screenings	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	LDF Screenings
19 12 02	ferrous metal	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Ferrous metal
19 12 09	minerals (for example sand, stones)	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding	Minerals

For inspection purposes only. Consent of copyright owner required for any other use.

		temporary storage, pending collection, on the site where the waste is produced)	
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	other wastes (including mixtures of materials) from mechanical treatment of wastes
20 01 01	paper and cardboard	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	paper and cardboard
20 01 02	Glass	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Glass

20 01 08	biodegradable kitchen and canteen waste	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	biodegradable kitchen and canteen waste
20 01 38	wood other than that mentioned in 20 01 37	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Compost
20 01 39	Plastics	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Plastic waste
20 01 40	Metals	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding	Metals

For inspection purposes only. Consent of copyright owner required for any other use.

		temporary storage, pending collection, on the site where the waste is produced)	
20 02 01	biodegradable waste	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Green waste
20 03 01	mixed municipal waste	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	mixed municipal waste
20 03 07	bulky waste	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)	bulky waste

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	450,000
Construction and Demolition	0
Other	0
Total	450,000

Waste Type	Maximum to be Accepted (tonnes/annum)
Hazardous	0
Non Hazardous	450,000
Total	450,000

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	4-3-3-Max-accepted-totals-calculations

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	4-3-6-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
1,600

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	4-3-4-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	4-3-5-Capacity-calculations

4.4 Capacity

Section Not Required - based on applicant's response

For inspection purposes only.
Consent of copyright owner required for any other use.

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

*For inspection purposes only.
Consent of copyright owner required for any other use.*

4.6 Resource and Energy Usage

Water Usage

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

Yes

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?

Yes

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 : A certified Environmental Management System is in place.</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, Handling and Characterisation have been prepared.</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 : Waste activities do not generate a process wastewater. Sanitary wastewater and liquid seeps from the processing buildings, where these occur, are collected in underground storage tanks that are emptied regularly with the contents sent to an off-site wastewater treatment plant.</p>	Yes

	With the exception of the odour control system, there are no waste gas streams. Emissions from the odour control unit are fully characterised.	
4	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 Response : A Waste Storage plan is in place in accordance with Condition 8.3.2 of the existing license.	Yes
5	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 Response : Procedures for Waste Acceptance, Handling and Characterisation have been prepared.	Yes
6	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 Response : See BAT 3	Not Applicable
7	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 Response : The site processed do not generate a wastewater.	Not Applicable
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	Yes

	<p>Response : Control and monitoring of the odour control unit stack emissions is carried out in accordance with Condition 6 and Schedule C of the existing licence</p>	
9	<p>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</p> <p>Response : Solvents are not used at the facility</p>	Not Applicable
10	<p>BAT is to periodically monitor odour emissions. See linked document for the full text of the BAT conclusion</p> <p>Response : Monitoring of the odour control unit stack emissions is carried out in accordance with Condition 6 and Schedule C of the existing licence.</p>	Yes
11	<p>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</p> <p>Response : The annual consumption of water, energy and raw materials as well as the annual generation of residues and waste water, are recorded and reported in the AER in accordance with Condition 11.9 and Schedule E of the existing licence</p>	Yes
12	<p>In order to prevent or, where that is not practicable, to reduce odour emissions, BAT is to set up, implement and 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 : SEHL has prepared an Odour Management Plan (OMP) for waste handling operations that identifies the operational and control measures required to effectively manage and control odours in normal and abnormal conditions.</p>	Yes

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 : Please refer to Bat 12</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 : An odour control system is installed in the section of the building where odorous materials are handled. This comprises the extraction of air to achieve negative air pressure in the building and an adsorbent carbon filter.</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 carried out 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 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
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 : Panda implements the control measures specified in the licence that are designed to ensure waste activities do not give rise to noise emissions that will be a cause of nuisance or impairment outside the facility boundary.</p>	Yes

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 : Refer to BAT 17</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 : Rainwater run-off from the buildings is collected and diverted to a rainwater harvesting system for use as 'grey water' in the welfare facilities and for dust suppression in the yards. The building floors and open yards are concrete paved. All hazardous substances are stored in bunded areas. The activity does not generate a process wastewater. Sanitary and sink wastewater and liquid seeps inside the buildings are collected and stored in underground tanks pending removal off-site for treatment in a municipal wastewater treatment plant.</p>	Yes
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 : Refer to BAT19</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 management plan (see BAT 1). See linked document for the full text of the BAT conclusion</p> <p>Response : An Accident Prevention Procedure and an Emergency Response Procedure have been prepared for the facility as specified in Condition 9 of the existing licence</p>	Yes
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>	Not Applicable

	Response : There are no raw materials used in the on site processes	
23	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 Response : An energy audit has been carried out as required by Condition 7.1 of the existing licence. The licence also requires that energy use is recorded and targets are set to improve the energy efficiency of activities and reduce overall use, where possible.	Yes
24	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 Response : Given the nature of the activity opportunities to re-use packaging is restricted.	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 mechanical treatment of waste		
BATC No.	Objective / Licensee Response / Attachment	Applicability
25	In order to reduce emissions to air of dust, and of particulate-bound metals, PCDD/F and dioxin-like PCBs, BAT is to apply BAT 14d and to use one or a combination of the techniques given below. See linked document for the full text of the BAT conclusion Response : Refer to Section 3.9 of the Operational Report	Yes
26	In order to improve the overall environmental performance, and to prevent emissions due to accidents and incidents, BAT is to use BAT 14g and all of the techniques given below: See linked document for the full text of the BAT conclusion	Yes

	<p>Response : The yard and building floors are cleaned regularly using a road sweeper and the yards are damped down using hoses in extended dry weather.</p> <p>The wastes are off-loaded in a designated tipping area and inspected for unsuitable material. If any is identified, it is removed to a dedicated quarantine area, where it is stored before being sent off-site.</p>	
27	<p>In order to prevent deflagrations and to reduce emissions when deflagrations occur, BAT is to use technique a. and one or both of the techniques b. and c. given below. See linked document for the full text of the BAT conclusion</p> <p>Response : Metals are not shredded at the facility.</p>	Not Applicable
28	<p>In order to use energy efficiently, BAT is to keep the shredder feed stable. See linked document for the full text of the BAT conclusion</p> <p>Response : Metals are not shredded at the facility.</p>	Not Applicable
29	<p>In order to prevent or, where that is not practicable, to reduce emissions of organic compounds to air, BAT is to apply BAT 14d, BAT 14h and to use technique a. and one or both of the techniques b. and c. given below. See linked document for the full text of the BAT conclusion</p> <p>Response : All waste treatment processes are carried out in enclosed buildings and air emissions are directed through an appropriate abatement system as agreed with the Agency (see Section 3.9 of the Operational Report)</p>	Yes
30	<p>In order to prevent emissions due to explosions when treating WEEE containing VFCs and/or VHCs, BAT is to use either of the techniques given below. See linked document for the full text of the BAT conclusion</p> <p>Response : WEEE is not treated on site</p>	Not Applicable
31	<p>In order to reduce emissions to air of organic compounds, BAT is to apply BAT 14d and to use one or a combination of the techniques given below. See linked document for the full text of the BAT conclusion</p>	Yes

	Response : An odour control unit comprising an adsorbent carbon filter is in place.	
32	<p>In order to reduce mercury emissions to air, BAT is to collect mercury emissions at source, to send them to abatement and to carry out adequate monitoring. See linked document for the full text of the BAT conclusion</p> <p>Response : All waste treatment processes are carried out in enclosed buildings and air emissions are directed through an appropriate abatement system as agreed with the Agency (see Section 3.9 of the Operational Report)</p>	Yes

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>		

For inspection purposes only. Consent of copyright owner required for any other use.

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](#)

Yes

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	4-8-2-Site-Condition-Report

For inspection purposes only.
Consent of copyright owner required for any other use.

4.9 Solvents

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

No

*For inspection purposes only.
Consent of copyright owner required for any other use.*

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

For inspection purposes only.
Consent of copyright owner required for any other use.

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	Confirmation of Fee Payment

For inspection purposes only.
Consent of copyright owner required for any other use.

6. Stakeholder Engagement

6.1 Stakeholder Engagement Template

Completed template

Document Type	Document Name
Stakeholder Engagement Section	6-1-Stakeholder-Engagement Rev1

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
Evidence of Notices	6-2-23-Fingal-CoCo-Notification
Evidence of Notices	6-2-22-Site-Notice-Map
Evidence of Notices	6-2-21-Newspaper Notice
Evidence of Notices	6-2-20-Site-Notice
Planning Decision	6-2-18-FW20A_0037-Planners-report
Planning Decision	Response to Notification Incomplete Application
Planning Decision	6-2-16-FW19A_0145-Planners-report
Planning Decision	6-2-8-F07A_0954-Planners-report
Planning Decision	6-2-9-F07A_0954_E1-Decision
Planning Decision	6-2-5-F05A-1156-Decision
Planning Decision	6-2-11-FW13A_0135-Decision
Planning Decision	6-2-3-F04A_1123-Planners-report
Planning Decision	6-2-10-F07A_0954_E1-Planners-report
Planning Decision	6-2-4 EIA Planning Confirmation Rev 1
Planning Decision	6-2-15-FW19A_0145-Decision

Planning Decision	14 4116 Fire Safety Certificate
Planning Decision	6-2-6-F05A-1156-Planners-report
Planning Decision	6-2-7-F07A_0954-Decision
Planning Decision	6-2-2-F04A_1123-Decision
Planning Decision	6-2-12-FW13_A0135-Planners-report
Planning Decision	6-2-13-FW18A_0067-Decision
Planning Decision	6-2-14-FW18A_0067-Planners-report
Planning Decision	6-2-17-FW20A_0037-Decision
Planning Decision	6-2-19-EIAR
Planning Decision	06 4170 Fire Safety Certificate
Project and Threshold - Planning	6.1.Planning and Threshold

For inspection purposes only.
Consent of copyright owner required for any other use.

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	7-1-3-Receiving-Env-Air
Receiving Environment Report	7-1-5-Receiving-Env-Noise

*For inspection purposes only.
Consent of copyright owner required for any other use.*

7.2 Emissions to Surface Water (not including Storm Water)

Section Not Required – based on applicant’s response

For inspection purposes only.
Consent of copyright owner required for any other use.

7.3 Emissions to Sewer

Section Not Required – based on applicant’s response

*For inspection purposes only.
Consent of copyright owner required for any other use.*

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>	

For inspection purposes only.
Consent of copyright owner required for any other use.

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

For inspection purposes only.
Consent of copyright owner required for any other use.

7.6 Emissions to Ground and Landspreading

Section Not Required – based on applicant’s response

*For inspection purposes only.
Consent of copyright owner required for any other use.*

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
Storm Water Monitoring	7-7-2-Storm-Water-Monitoring

For inspection purposes only.
Consent of copyright owner required for any other use.

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	8-2-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
<i>No files uploaded</i>	

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

Agent

Upload a copy of scanned signature and company stamp

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