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INDUSTRIAL EMISSIONS LICENCE

<b>Licence Register Number:</b>	W0261-03
<b>Company Register Number:</b>	527552
<b>Licensee:</b>	Starrus Eco Holdings Limited
<b>Location of Installation:</b>	Cappagh Road Finglas Dublin 11

## ENVIRONMENTAL PROTECTION AGENCY ACT 1992 AS AMENDED

### INDUSTRIAL EMISSIONS LICENCE

Decision of Agency, under Section 90(2) of the EPA Act 1992 as amended in respect of licence

Reference number in Register of licences: W0261-03

Further to notice dated 21 December 2023, the Agency in exercise of the powers conferred on it by the Environmental Protection Agency Act 1992 as amended, for the reasons hereinafter set out, hereby grants an Industrial Emissions review licence to Starrus Eco Holdings Limited, Panda Waste Management Solutions, Ballymount Road Upper, Dublin 24, CRO number 527552,


to carry on the following activities:

- 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 co-incineration;
- 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,

at Cappagh Road, Finglas, Dublin 11, subject to the conditions as set out.

GIVEN under the Seal of the Agency on this day of 16<sup>th</sup> day of May 2024.

PRESENT when the seal of the Agency was affixed hereto:

  
Tara Gillen, Authorised Person



## ***INTRODUCTION***

This introduction is not part of this licence and does not purport to be a legal interpretation of this licence.

The licence is for the operation of a non-hazardous materials recovery and waste transfer station at Cappagh Road, Finglas, Dublin 11. The installation accepts and processes household residual waste and food waste, commercial waste, industrial waste, and mixed dry recyclables waste including clean paper and cardboard (household and commercial). The licence provides for the acceptance and processing of construction and demolition waste.

This licence authorises an increase in the permitted maximum quantity of waste to be accepted at the installation from 250,000 tonnes per annum (tpa) to 450,000 tpa (an increase of 80%) and an extension of the licence boundary. There are no physical amendments required to the installation to facilitate the increase in tonnage requested.

The activity falls under the following category of Annex I of the Industrial Emissions Directive:

5.3 (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, and excluding activities covered by Directive 91/271/EEC: pre-treatment of waste for incineration or co-incineration.

This licence sets out in detail the conditions under which Starrus Eco Holdings Limited will operate and manage this installation.

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## *Glossary of Terms*

All terms in this licence should be interpreted in accordance with the definitions in the Environmental Protection Agency Act 1992 as amended / Waste Management Act 1996 as amended, unless otherwise defined in the glossary.

<b>Accident</b>	For the purpose of this licence an accident means an unplanned event that may result in pollution.
<b>Adequate lighting</b>	20 lux measured at ground level.
<b>AER</b>	Annual Environmental Report.
<b>Aerosol</b>	A suspension of solid or liquid particles in a gaseous medium.
<b>Agreement</b>	Agreement in writing/electronically.
<b>Annually</b>	All or part of a period of twelve consecutive months.
<b>Application</b>	The application by the licensee for this licence.
<b>Appropriate Facility</b>	A waste management facility or installation, duly authorised under relevant law and technically suitable.
<b>Approval</b>	Approval in writing/electronically.
<b>Attachment</b>	Any reference to Attachments in this licence refers to attachments submitted as part of this licence application.
<b>Basic characterisation</b>	A thorough determination, according to standardised analysis and behaviour testing methods, of the short and long-term leaching behaviour and/or characteristic properties of the waste.
<b>BAT</b>	Best Available Techniques (BAT) as described in the Commission Implementing Decision (CID) of 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. Reference to BAT numbers in the conditions of this licence are references to the BAT Conclusions according to how they are numbered in the aforementioned CID.
<b>BAT conclusions</b>	A document containing the parts of a BAT reference document laying down the conclusions on best available techniques, their description, information to assess their applicability, the emission levels associated with the best available techniques, associated monitoring, associated consumption levels and, where appropriate, relevant site remediation measures.

<b>BAT reference document</b>	A document drawn up by the Commission of the European Union in accordance with Article 13 of the Industrial Emissions Directive, resulting from the exchange of information in accordance with that Article of that Directive and describing, in particular, applied techniques, present emissions and consumption levels, techniques considered for the determination of best available techniques as well as BAT conclusions and any emerging techniques.
<b>Biannually</b>	At approximately six – monthly intervals.
<b>Biennially</b>	Once every two years.
<b>Biodegradable waste</b>	Any waste that is capable of undergoing anaerobic or aerobic decomposition, such as food, garden waste, sewage sludge, paper and paperboard.
<b>Biodegradable municipal waste (BMW)</b>	The biodegradable component of municipal waste, not including bio-stabilised residual waste. Biodegradable municipal waste is typically composed of food and garden waste, wood, paper, cardboard and textiles.
<b>Bio-waste</b>	Biodegradable garden and park waste, food and kitchen waste from households, offices, restaurants, wholesale, canteens, caterers and retail premises and comparable waste from food processing plants.
<b>BOD</b>	5 day Biochemical Oxygen Demand (without nitrification suppression).
<b>CEN</b>	Comité Européen De Normalisation – European Committee for Standardisation.
<b>Channelled emissions</b>	Emissions of pollutants into the environment through any kind of duct, pipe, stack, etc. This also includes emissions from open-top biofilters.
<b>CID 2018/1147</b>	Commission Implementing Decision of 2018/1147 of 10 August 2018 establishing best available techniques (BAT) Conclusions for waste treatment.
<b>COD</b>	Chemical Oxygen Demand.
<b>Commercial Waste</b>	As defined in Section 5(1) of the Waste Management Acts 1996 as amended.
<b>Compliance Testing</b>	This constitutes periodical testing to determine whether a waste complies with waste acceptance criteria. The tests focus on key variables and behaviour identified by basic characterisation.
<b>Construction and demolition (C&amp;D) waste</b>	Wastes that arise from construction, renovation and demolition activities: Chapter 17 of the LoW or as otherwise may be agreed.
<b>Containment boom</b>	A boom that can contain spillages and prevent them from entering drains or watercourses or from further contaminating watercourses.

<b>Continuous Measurement</b>	Measurement using an 'automated measuring system' permanently installed on site.
<b>CRO Number</b>	Company Register Number.
<b>Daily</b>	During all days of plant operation and, in the case of emissions, when emissions are taking place; with at least one measurement on any one day.
<b>Day</b>	Any 24-hour period.
<b>Daytime</b>	0700hrs to 1900hrs.
<b>dB(A)</b>	Decibels (A weighted).
<b>Diffuse Emissions</b>	Non-channelled emissions (e.g. of dust, organic compounds, odour) which can result from 'area' sources (e.g. tanks) or 'point' sources (e.g. pipe flanges). This also includes emissions from open-air windrow composting.
<b>DO</b>	Dissolved oxygen.
<b>Documentation</b>	Any report, record, results, data, drawing, proposal, interpretation or other document in written or electronic form which is required by this licence.
<b>Drawing</b>	Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this licence.
<b>Emission limits</b>	Those limits, including concentration limits and deposition rates, established in <i>Schedule B: Emission Limits</i> , of this licence.
<b>EMP</b>	Environmental Management Programme.
<b>EMS</b>	Environmental Management System. The aspect of the organisation's overall management structure that addresses immediate and long-term impacts of its products, services and processes on the environment.
<b>Environmental damage</b>	As defined in Directive 2004/35/EC.
<b>EPA</b>	Environmental Protection Agency.
<b>Evening Time</b>	1900hrs to 2300hrs.
<b>Facility</b>	Any site or premises used for the purpose of the recovery or disposal of waste.

<b>Food Waste</b>	All food as defined in Article 2 of Regulation (EC) No 178/2002 of the European Parliament and of the Council that has become waste.
<b>Fortnightly</b>	A minimum of 24 times per year, at approximately two week intervals.
<b>Gas Oil</b>	Gas oil as defined in DIRECTIVE (EU) 2016/802 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 May 2016 relating to a reduction in the sulphur content of certain liquid fuels.
<b>GC/MS</b>	Gas chromatography/mass spectroscopy.
<b>Green Waste</b>	Waste wood (excluding timber), plant matter such as grass cuttings, and other vegetation.
<b>Groundwater</b>	Has the meaning assigned to it by Regulation 3 of the European Communities Environmental Objectives (Groundwater) Regulations 2010 (S.I. No. 9 of 2010), as amended.
<b>ha</b>	Hectare.
<b>Hazardous waste</b>	Hazardous waste as defined in point 2 of Article 3 of Directive 2008/98/EC.
<b>Hazardous Substances</b>	Substances or mixtures as defined in Article 3 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures.
<b>Heavy metals</b>	This term is to be interpreted as set out in "Parameters of Water Quality, Interpretation and Standards" published by the Agency in 2001. ISBN 1-84095-015-3.
<b>Hours of operation</b>	The hours during which the installation is authorised to be operational.
<b>Hours of waste acceptance</b>	The hours during which the installation is authorised to accept waste.
<b>ICP</b>	Inductively coupled plasma spectroscopy.
<b>IE</b>	Industrial Emissions.
<b>Incident</b>	The following shall constitute an incident for the purposes of this licence: (i) an emergency; (ii) any emission which does not comply with the requirements of this licence; (iii) any malfunction or breakdown of key environmental abatement, control or monitoring equipment; (iv) any exceedance of the daily duty capacity of the waste handling equipment;



	(v) any trigger level specified in this licence which is attained or exceeded;
	(vi) any indication that environmental pollution has, or may have, taken place.
<b>Industrial Emissions Directive</b>	Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control) (Recast).
<b>Industrial waste</b>	As defined in Section 5(1) of the Waste Management Act 1996 as amended.
<b>Inert Waste:</b>	Waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater.
<b>Installation</b>	A stationary technical unit or plant where the activity concerned referred to in the First Schedule of EPA Act 1992 as amended is or will be carried on, and shall be deemed to include any directly associated activity, which has a technical connection with the activity and is carried out on the site of the activity.
<b>Installation Manager</b>	The licensee or an authorised representative of the licensee with the appropriate seniority and authority to ensure compliance with the licence.
<b>K</b>	Kelvin.
<b>kPa</b>	Kilopascals.
<b><math>L_{Aeq,T}</math></b>	This is the equivalent continuous sound level. It is a type of average and is used to describe a fluctuating noise in terms of a single noise level over the sample period (T).
<b>Landfill Directive</b>	Council Directive 1999/31/EC.
<b><math>L_{A,T}</math></b>	The Rated Noise Level, equal to the $L_{Aeq}$ during a specified time interval (T), plus specified adjustments for tonal character and/or impulsiveness of the sound.
<b>Licensee</b>	Starrus Eco Holdings Limited, Panda Waste Management Solutions, Ballymount Road Upper, Dublin 24, CRO Number: 527552.
<b>Liquid waste</b>	Any waste in liquid form and containing less than 2% dry matter.

<b>List of Wastes (LoW)</b>	A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 2014/955/EU, as amended by any subsequent amendment published in the Official Journal of the European Community.
<b>Local Authority</b>	Fingal County Council.
<b>Maintain</b>	Keep in a fit state, including such regular inspection, servicing, calibration and repair as may be necessary to perform its function adequately.
<b>Mass flow limit</b>	An emission limit value expressed as the maximum mass of a substance that can be emitted per unit time.
<b>Mass flow threshold</b>	A mass flow rate above which a concentration limit applies.
<b>Mobile plant</b>	Self-propelled machinery used for the emplacement of wastes or for the construction of specified engineering works.
<b>Monthly</b>	A minimum of 12 times per year, at intervals of approximately one month.
<b>Municipal Waste</b>	As defined in Section 5(1) of the Waste Management Act 1996, as amended:
<b>Night-time</b>	2300hrs to 0700hrs.
<b>Noise-sensitive location (NSL)</b>	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other installation or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
<b>Odour-sensitive location</b>	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other premises or area of high amenity which for its proper enjoyment requires the absence of odour at nuisance levels.
<b>Oil separator</b>	Device installed according to the International Standard I.S. EN 858-2:2003 (Separator system for light liquids, (e.g. oil and petrol) – Part 2: Selection of normal size, installation, operation and maintenance).
<b>Output</b>	The treated waste exiting the waste treatment plant.
<b>Periodic Measurement</b>	Measurement at specified time intervals using manual or automated methods.
<b>Potential emissions</b>	Emissions which take place only under abnormal operating conditions. Examples include emissions from overpressure valves, bursting discs, and back-up generators.

<b>PRTR</b>	Pollutant Release and Transfer Register.
<b>Quarterly</b>	All or part of a period of three consecutive months beginning on the first day of January, April, July or October.
<b>Recovery</b>	Recovery as defined in Article 3(15) of Directive 2008/98/EC.
<b>Recyclable Materials</b>	Wastes types that can suitably undergo a recycling operation.
<b>Refuse Derived Fuel (RDF)</b>	Fuel that has been produced in accordance with a technical standard from pre-treated non-hazardous municipal, commercial or industrial waste.
<b>Relevant Hazardous Substances</b>	Those substances or mixtures defined within Article 3 of Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) which, as a result of their hazardousness, mobility, persistence and biodegradability (as well as other characteristics), are capable of contaminating soil or groundwater and are used, produced and/or released by the installation.
<b>Residual Waste</b>	The fraction of collected waste remaining after a treatment or diversion step, which generally requires further treatment or disposal, including mixed municipal waste.
<b>SAC</b>	Special Area of Conservation designated under the Habitats Directive, Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora.
<b>Sample(s)</b>	Unless the context of this licence indicates to the contrary, the term samples shall include measurements taken by electronic instruments.
<b>Sanitary effluent</b>	Wastewater from installation toilet, washroom and canteen facilities.
<b>Separate Collection</b>	The collection where a waste stream is kept separately by type and nature so as to facilitate a specific treatment.
<b>Soil</b>	The top layer of the Earth's crust situated between the bedrock and the surface. The soil is composed of mineral particles, organic matter, water, air and living organisms.
<b>Solid Recovered Fuel (SRF)</b>	Fuel that has been produced in accordance with a technical standard from pre-treated non-hazardous municipal, commercial or industrial waste.
<b>SOP</b>	Standard operating procedure.
<b>Source segregated waste</b>	Waste which is separated at source; meaning that the waste is sorted at the point of generation into a recyclable fraction(s) for separate collection (e.g., paper, metal, glass, plastic, bulk dry recyclables, biodegradables, etc.,) and a residual fraction. The expression 'separate at source' shall be construed accordingly.

<b>PA</b>	Special Protection Area designated under the Birds Directive, Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds.
<b>Specified emissions</b>	Those emissions listed in <i>Schedule B: Emission Limits</i> , of this licence.
<b>Specified Engineering Works</b>	Engineering works listed in <i>Schedule E: Specified Engineering Works</i> , of this licence.
<b>Standard method</b>	A National, European or internationally recognised procedure (e.g. I.S. EN, ISO, CEN, BS or equivalent); or an in-house documented procedure based on the above references; a procedure as detailed in the current edition of "Standard Methods for the Examination of Water and Wastewater" (prepared and published jointly by A.P.H.A., A.W.W.A. & W.E.F.), American Public Health Association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA; or an alternative method as may be approved by the Agency.
<b>Storage</b>	Includes holding of waste.
<b>Storm water</b>	Rain water run-off from roof and non-process areas.
<b>Temporary storage</b>	In relation to waste is a period of less than six months as defined in the Waste Management Act 1996 as amended.
<b>The Agency</b>	Environmental Protection Agency.
<b>TOC</b>	Total organic carbon.
<b>Trade effluent</b>	Trade effluent has the meaning given in the Water Services Act, 2007.
<b>Transfrontier Shipment Notification</b>	Transfrontier Shipment Notification and movement/tracking form numbers are required for all exports of waste from, into or through the State under the Waste Management (Shipments of Waste) Regulations (SI419/2007).
<b>Treatment/Pre-treatment</b>	In relation to waste, any manual, thermal, physical, chemical or biological processes that change the characteristics of waste in order to reduce its volume or hazardous nature or facilitate its handling, disposal or recovery, including baling and wrapping of waste.
<b>Trigger level</b>	A parameter value, the achievement or exceedance of which requires certain actions to be taken by the licensee.
<b>Uisce Éireann</b>	Uisce Éireann, Colvill House, 24/26 Talbot Street, Dublin 1.
<b>Waste</b>	Any substance or object which the holder discards or intends or is required to discard.

<b>Waste holder</b>	Means the waste producer or the natural or legal person who is in possession of the waste.
<b>Waste input</b>	The incoming waste to be treated in the waste treatment plant.
<b>Water Services Authority</b>	Fingal County Council.
<b>Weekly</b>	During all weeks of plant operation and, in the case of emissions, when emissions are taking place; with at least one measurement in any one week.
<b>WWTP</b>	Waste water treatment plant.

## ***Decision and Reasons for the Decision***

The Environmental Protection Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of this licence, any emissions from the activity will comply with and will not contravene any of the requirements of Section 83(5) of the Environmental Protection Agency Act 1992 as amended.

The Agency has applied the Commission Implementing Decision of 10/08/2018 establishing Best Available Techniques (BAT) Conclusions, under Directive 2010/75/EU of the European Parliament and of the Council, for waste treatment as a reference when setting licence conditions.

The Agency has accordingly decided to grant a licence to Starrus Eco Holdings Limited to carry on the activities listed in *Part I, Schedule of Activities Licensed*, subject to the conditions set out in *Part III, Conditions*, such licence to take effect in lieu of Licence Register Number: W0261-02.

In reaching this decision the Agency has considered the documentation relating to the existing licence, Register Number: W0261-02, the review application, Register Number: W0261-03 and the supporting documentation received from the licensee; the submissions received; the Inspector's Report dated 14 December 2023; the proposed determination dated 21 December 2023; the objection received from the Applicant; the Technical Committee Report dated 15 April 2024 on the objection to the proposed determination and has carried out an Environmental Impact Assessment (EIA) and an Appropriate Assessment Screening of the likely significant effects of the activities on European Sites. The Agency has performed its functions in a manner consistent with Section 15 of the Climate Action and Low Carbon Development Act 2015 as amended.

It is considered that the Inspector's Report and the Technical Committee Report contain a fair and reasonable examination, evaluation and analysis of the likely significant effects of the activities on the environment, and adequately and accurately identify, describe and assess those effects. The assessment as reported in those documents is adopted as the assessment of the Agency. Having regard to this assessment, it is considered that the activities, if managed, operated and controlled in accordance with this licence will not result in the contravention of any relevant environmental quality standards or cause environmental pollution

Having regard to the examination of environmental information in the Inspector's Report, and in particular to the content of the Environmental Impact Assessment Report (EIAR) and supplementary information provided by the licensee, and the submission(s) from the planning authority / authorities, and any other third parties in the course of the application, it is considered that the potential significant direct and indirect effects of the activities on the environment are as follows:

- Emissions to air from odour;
- Noise emissions;
- Accidental leakages or spills; and
- Major accidents and disasters (e.g. fire).

Having assessed those potential effects, the Agency has concluded as follows:

- Emissions to air from odour sources will be mitigated through: operation of abatement in accordance with BAT, imposing emission limit values to ensure compliance with ground level concentration of odour at sensitive receptors and implementing monitoring, maintenance and control measures;
- Noise emissions will be mitigated through: imposing daytime, evening-time and night-time noise limits at noise-sensitive locations and implementing monitoring, maintenance and control measures;
- Accidental leakages or spills will be mitigated through: the use of oil interceptor and holding tank, inspection and maintenance of bunds and tanks, and accident and emergency requirements specified in the licence; and
- Major accidents and disasters will be mitigated through: accident and emergency requirements specified in the licence implementing monitoring, maintenance and control measures.

Having regard to the effects (and interactions) identified, described and assessed throughout the Inspector's Report, it is considered that the monitoring, mitigation and preventative measures proposed will enable the activities to operate without causing environmental pollution, subject to compliance with this licence.

The conditions of this licence and the mitigation measures will significantly reduce the likelihood of accidental emissions occurring and limit the environmental consequences of an accidental emission should one occur.

A screening for Appropriate Assessment was undertaken to assess, in view of best scientific knowledge and the conservation objectives of the site, if the activities, individually or in combination with other plans or projects are likely to have a significant effect on any European Site. In this context, particular attention was paid to the European Sites in Table 1.0 below.

Table 1.0

1.	Rye Water Valley/Cartron SAC (Site code: 001398)
2.	South Dublin Bay SAC (Site code: 000210)
3.	Malahide Estuary SAC (Site code: 000205)
4.	North Dublin Bay SAC (Site code: 000206)
5.	Baldoyle Bay SAC (Site code: 000199)
6.	Rogerstown Estuary SAC (Site code: 000208)
7.	South Dublin Bay and River Tolka Estuary SPA (Site code: 004024)
8.	Malahide Estuary SPA (Site code: 004025)
9.	North Bull Island SPA (Site code:004006)
10	Baldoyle Bay SPA (Site code: 004016)
11.	Rogerstown Estuary SPA (Site code: 004015)

The activities are not directly connected with or necessary to the management of any European Site and the Agency considered, for the reasons set out below, that it can be excluded, on the basis of objective information, that the activities, individually or in combination with other plans or projects, will have a significant effect on any European Site and accordingly determined that an Appropriate Assessment of the activities was not required.

This determination is based on the following reasons:

- The installation is not located within a European site.
- There are no process emissions to surface water or groundwater from the installation.
- The distance and lack of hydrological connectivity connecting the European sites and their qualifying interests listed in No. 1 to 6, and 8 to 11 in Table 1.0 above to the installation. The activity will not have a likely significant effect on the European site listed as No.7 in Table 1.0 above in light of the scale and nature of the storm water discharges to the environment and the distance from the installation to the European site and its qualifying interests.
- The European sites and their qualifying interests are determined to be outside the zone of influence of dust, odour, or noise emissions due to the distance from the installation.

The Agency was notified on 12 July 2023 by the Department of Housing, Local Government and Heritage of the Minister's intention to designate a new European site, namely the North-west Irish Sea candidate Special Protection Area (site code 004236). The North-west Irish Sea SPA is 14.2 km from the boundary of the installation. The Agency has reviewed and considered the Appropriate Assessment Screening and the new qualifying interests and conservation objectives of the North-west Irish Sea SPA and is satisfied that inclusion of the North-west Irish Sea SPA does not change the determination that an Appropriate Assessment of the activity is not required. The Agency is satisfied that the reasons stated in the screening determination are still appropriate.

## ***Part I Schedule of Activities Licensed***

In pursuance of the powers conferred on it by the Environmental Protection Agency Act 1992 as amended, the Agency hereby grants this revised Industrial Emissions licence to:

Starrus Eco Holdings Limited, Panda Waste Management Solutions, Ballymount Road Upper, Dublin 24, CRO Number: 527552,

under Section 90(2) of the said Act to carry on the following activities:

- 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 co-incineration;
- 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,

at Cappagh Road, Finglas, Dublin 11, subject to the following 12 Conditions, with the reasons therefor and associated schedules attached thereto.

## ***Part II Schedule of Activities Refused***

None of the proposed activities as set out in this licence application have been refused.



## ***Part III Conditions***

### **Condition 1. Scope**

- 1.1 Industrial Emissions Directive activities at this installation shall be restricted to those listed and described in *Part I Schedule of Activities Licensed* and shall be as set out in the licence application or as modified under Condition 1.4 of this licence and subject to the conditions of this licence.
- 1.2 The licensee shall carry on the licensed activities in accordance with the limitations set out in *Schedule A: Limitations* of this licence.
- 1.3 For the purposes of this licence, the installation authorised by this licence is the area of land outlined in red on Drawing No. 18139-200 entitled Site Layout Plan of the application. Any reference in this licence to "installation" shall mean the area thus outlined in red. The licensed activities shall be carried on only within the area outlined.
- 1.4 No alteration to, or reconstruction in respect of, the activity, or any part thereof, that would, or is likely to, result in
- (i) a material change or increase in:
    - the nature or quantity of any emission;
    - the abatement/treatment or recovery systems;
    - the range of processes to be carried out;
    - the fuels, raw materials, intermediates, products or wastes generated, or
  - (ii) any changes in:
    - site management, infrastructure or control with adverse environmental significance,
- shall be carried out or commenced without prior notice to, and without the approval of, the Agency.
- 1.5 The installation shall be controlled, operated and maintained, and emissions shall take place as set out in this licence. All programmes required to be carried out under the terms of this licence become part of this licence.
- 1.6 This licence is for the purpose of licensing under the EPA Act 1992 as amended only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.7 The licensee shall maintain evidence, for inspection by the Agency, that it has the required consent of the Department of Agriculture, Food and the Marine to handle animal by-products at the installation if carrying out the following:
- (i) transfer of out-of-date packaged food;
  - (ii) depackaging of out-of-date packaged food.
- 1.8 This licence shall have effect in lieu of the licence granted on 11 February 2015 (Register No W0261-02).
- 1.9 Waste Acceptance Hours and Hours of Operation
- 1.9.1 The installation may accept and dispatch waste on a twenty-four hour basis, seven days per week, 365 days a year.
- 1.9.2 The installation may operate on a twenty-four hour basis, seven days per week.

<b>Reason:</b> To clarify the scope of this licence.
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## Condition 2. Management of the Installation

### 2.1 Installation Management

2.1.1 The licensee shall employ a suitably qualified and experienced installation manager who shall be designated as the person in charge. The installation manager or a nominated, suitably qualified and experienced deputy shall be present on the installation at all times during its operation or as otherwise required by the Agency.

2.1.2 The licensee shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and experience as required and shall be aware of the requirements of this licence.

### 2.2 Environmental Management System (EMS)

2.2.1 The licensee shall maintain and implement an Environmental Management System (EMS). The EMS shall be reviewed by senior management for suitability, adequacy and effectiveness and updated on an annual basis.

2.2.2 The EMS shall include, as a minimum, the following elements:

2.2.2.1 A statement of the commitment, leadership and accountability of management, including senior management for the implementation of an effective EMS.

2.2.2.2 An environmental policy, defined by Management, that includes a commitment to continuous improvement of the environmental performance of the installation.

2.2.2.3 Management and Reporting Structure and responsibility for environmental aspects, including for the planning and provision of financial and human resources to manage and implement the EMS.

2.2.2.4 An analysis of the organisation's regulatory and environmental obligations, including the potential risks to the environment from the activity.

2.2.2.5 The procedures required by this licence, including procedures for;

2.2.2.5.1. ensuring compliance with environmental legislation;

2.2.2.5.2. ensuring employee awareness of and involvement in complying with environmental legislation; and

2.2.2.5.3. checking performance and developing performance indicators by sectoral benchmarking on a regular basis, including for energy efficiency.

2.2.2.6 Waste stream management using all of the techniques listed in BAT 2 of CID 2018/1147.

2.2.2.7 The maintenance of an inventory of waste water and waste gas streams that incorporates all of the features listed in BAT 3 of CID 2018/1147.

2.2.2.8 An accident management plan using all of the techniques listed in BAT 21 of CID 2018/1147

2.2.2.9 An odour management plan that incorporates all of the features listed in BAT 12 of CID 2018/1147.

2.2.2.10 Schedule of Environmental Objectives and Targets

The licensee shall maintain and implement a Schedule of Environmental Objectives and Targets. The schedule shall, as a minimum, provide for a review of all operations and processes, as referred to in the conditions of this licence, including an evaluation of practicable options for:

(i) energy and resource efficiency;

(ii) the reduction in water consumption;

- (iii) the use of cleaner technology, cleaner production;
- (iv) odour and noise management;
- (v) the prevention, reduction and minimisation of waste including waste reduction targets;
- (vi) the impacts from eventual decommissioning of the installation; and
- (vii) a monitoring and measurement programme.

The Schedule shall include time frames for the achievement of set targets and shall address a five-year period as a minimum. The Schedule shall be reviewed annually.

#### 2.2.2.11 Environmental Management Programme (EMP)

The licensee shall maintain and implement an EMP, including a time schedule, for achieving the Environmental Objectives and Targets prepared under Condition 2.2.2.10 above. The EMP shall include:

- designation of responsibility for targets;
- the means by which they may be achieved; and
- the time within which they may be achieved.

The EMP shall be reviewed annually.

A report on the programme, including the success in meeting agreed targets and an evaluation of non-conformities and associated corrective actions and the potential for further non-conformities to occur shall be prepared and submitted to the Agency as part of the AER. Such reports shall be retained on-site for a period of not less than seven years and shall be available for inspection by authorised persons of the Agency.

#### 2.2.2.12 Documentation

- (i) The licensee shall maintain and implement an environmental management documentation system.
- (ii) The licensee shall issue a copy of this licence to all relevant personnel whose duties relate to any condition of this licence.

#### 2.2.2.13 Corrective and Preventative Action

- (i) The licensee shall maintain and implement procedures to ensure that corrective and preventative action is taken should the specified requirements of this licence not be fulfilled. The responsibility and authority for persons initiating further investigation and corrective and preventative action in the event of a reported non-conformity with this licence shall be defined.
- (ii) Where a breach of one or more of the conditions of this licence occurs, the licensee shall without delay take measures to restore compliance with the conditions of this licence in the shortest possible time and initiate any feasible preventative actions to prevent recurrence of the breach.
- (iii) All corrective and preventative actions shall be documented.

#### 2.2.2.14 Internal Audits

The licensee shall maintain and implement a programme for independent internal audits of the EMS. Such audits shall be carried out at least once every three years. The audit programme shall determine whether or not the EMS is being implemented and maintained properly, and in accordance with the requirements of this licence. Audit reports and records of the resultant corrective and preventative actions shall be maintained as part of the EMS in accordance with Condition 2.2.2.13 above.

#### 2.2.2.15 Awareness, Training and Competence

The licensee shall maintain and implement procedures for identifying training needs, and for providing appropriate training, for all personnel whose work can have a significant effect upon the environment to ensure awareness and competence in their work area. Appropriate records of training shall be maintained.

#### 2.2.2.16 Public Awareness and Communications Programme

2.2.2.16.1. The licensee shall maintain and implement a Public Awareness and Communications Programme to ensure that members of the public can obtain information at the installation, at all reasonable times, concerning the environmental performance of the installation.

2.2.2.16.2. The programme shall be approved by the Agency and a report on the programme shall be prepared and submitted to the Agency annually.

#### 2.2.2.17 Maintenance Programme

The licensee shall maintain and implement a programme for maintenance of all plant and equipment based on the instructions issued by the manufacturer/supplier or installer of the equipment. Appropriate record keeping and diagnostic testing shall support this maintenance programme. The licensee shall clearly allocate responsibility for the planning, management and execution of all aspects of this programme to appropriate personnel (see Condition 2.1 above). The maintenance programme shall use appropriate techniques and measures to ensure the optimisation of energy efficiency in plant and equipment.

#### 2.2.2.18 Efficient Process Control

The licensee shall maintain and implement a programme to ensure there is adequate control of processes under all modes of operation. The programme shall identify the key indicator parameters for process control performance, as well as identifying methods for measuring and controlling these parameters. Abnormal process operating conditions shall be documented and analysed to identify any necessary corrective action.

<p><b>Reason:</b> <i>To make provision for management of the activity on a planned basis having regard to the desirability of ongoing assessment, recording and reporting of matters affecting the environment.</i></p>
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### Condition 3. Infrastructure and Operation

- 3.1 The licensee shall ensure, at all times that all infrastructure and all equipment required under this licence has been and is:
- (i) installed;
  - (ii) commissioned;
  - (iii) present on site; and
  - (iv) maintained in full working order.
- 3.2 Where any Condition / Schedule of this licence specifies any later deadline for installation of any piece of infrastructure or equipment, Condition 3.1 of this licence shall apply as and from the deadline specified.
- 3.3 The licensee shall establish and maintain, for each component of the installation, all infrastructure referred to in this licence prior to the date of commencement of the licensed activities in that component, or as required by the conditions of this licence. Infrastructure specified in the application that relates to the environmental performance of the installation/ and is not specified in this licence, shall be installed in accordance with the schedule submitted in the application.
- 3.4 The licensee shall have regard to the following when choosing and/or designing any new plant/infrastructure:
- (i) energy efficiency; and
  - (ii) the environmental impact of its construction/installation, maintenance, operation and eventual decommissioning.
- 3.5 Installation Notice Board
- (i) The licensee shall maintain an Installation Notice Board on the installation so that it is legible to persons outside the main entrance to the installation. The minimum dimensions of the board shall be 1200mm by 750mm. The notice board shall be maintained thereafter.
  - (ii) The board shall clearly show:
    - (i) the name and telephone number of the installation;
    - (ii) the normal hours of operation;
    - (iii) the normal hours of waste acceptance;
    - (iv) the name of the licence holder;
    - (v) an emergency out of hours contact telephone number;
    - (vi) this licence reference number; and
    - (vii) where environmental information relating to the installation can be obtained.
  - (iii) A plan of the installation clearly identifying the location of each storage and treatment area shall be displayed as close as is possible to the entrance to the installation. The plan shall be displayed on a durable material such that is legible at all times. The plan shall be replaced as material changes to the installation are made.
- 3.6 The licensee shall install and maintain on all emission points such sampling points or equipment, including any data-logging or other electronic communication equipment, as may be required by the Agency. All such equipment shall be consistent with the safe operation of all sampling and monitoring systems.
- 3.7 In the case of composite sampling of aqueous emissions from the operation of the installation, a separate composite sample or homogeneous sub-sample (of sufficient volume as advised) shall be refrigerated immediately after collection and retained as required for EPA use.
- 3.8 The licensee shall clearly label and provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency. The requirement with regard to off-site points is subject to the prior agreement of the landowner(s) concerned.

- 3.9 Tank, Container and Drum Storage Areas
- 3.9.1 All tank, container and drum storage areas shall be rendered impervious to the materials stored therein. Bunds shall be designed having regard to Agency guidelines 'Storage and Transfer of Materials for Scheduled Activities' (2004).
- 3.9.2 All tank and drum storage areas shall, as a minimum, be bunded, either locally or remotely, to a volume not less than the greater of the following:
- (i) 110% of the capacity of the largest tank or drum within the bunded area; or
  - (ii) 25% of the total volume of substance that could be stored within the bunded area.
- 3.9.3 All drainage from bunded areas shall be treated as contaminated unless it can be demonstrated to be otherwise.
- 3.9.4 All drainage from bunded areas shall be diverted for collection and safe disposal, unless it can be deemed uncontaminated and does not exceed the trigger levels set for storm water emissions under Condition 6.12 of this licence.
- 3.9.5 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 3.9.6 All tanks, containers and drums shall be labelled to clearly indicate their contents.
- 3.9.7 All bunds shall be uniquely identified and labelled at the bund.
- 3.10 The licensee shall have in storage an adequate supply of containment booms and/or suitable absorbent material to contain and absorb any spillage at the installation. Once used, the absorbent material shall be disposed of at an appropriate facility.
- 3.11 Water metering and records
- 3.11.1 The licensee shall install and maintain a water meter on all water supplies serving the installation, within six months of the date of grant of this licence.
- 3.11.2 Records of water usage shall be maintained on site and a summary records report shall be submitted annually as part of the AER.
- 3.11.3 Daily records of water abstraction from the on-site well shall be kept and should usage exceed 25m<sup>3</sup> in any 24 hour period, the abstraction shall be registered with the Agency as per the *European Union (Water Policy) (Abstractions Registration) Regulations 2018* (S.I. 261 of 2018).
- 3.12 Silt Traps and Oil Separators
- The licensee shall maintain silt traps and oil separators at the installation:
- (i) Silt traps to ensure that all storm water discharges, other than from roofs, from the installation pass through a silt trap in advance of discharge;
  - (ii) An oil separator on the storm water discharge from yard areas. The separator shall be a Class I full retention separator.
- The separator shall be in accordance with I.S. EN-858-2: 2003 (separator systems for light liquids).
- 3.13 Firewater Retention
- 3.13.1 The licensee shall carry out a review and update the risk assessment prior to the acceptance of additional waste greater than 250,000 tonnes per annum, and as required by the Agency thereafter. The risk assessment, and any subsequent reports or programmes, shall be completed in accordance with any guidelines issued by the Agency with regard to firewater retention.
- 3.13.2 The licensee shall submit the Firewater Risk Assessment Report based on the assessment in Condition 3.13.1 above to the Agency for approval prior to the acceptance of additional waste greater than 250,000 tonnes per annum, and as required by the Agency thereafter.

- 3.13.3 The licensee shall implement the Firewater Risk Assessment Report as approved by the Agency under Condition 3.13.2 above, within the timeframes specified by the Agency.
- 3.14 All pump sumps, storage tanks or other treatment plant chambers from which spillage of environmentally significant materials might occur in such quantities as are likely to breach local or remote containment or separators, shall be fitted with high liquid level alarms (or oil detectors as appropriate). In particular the waste water collection and storage system utilised for sanitary effluent from the site offices, floor washdown water and drainage from waste storage and quarantine areas.
- 3.15 The provision of a catchment system to collect any leaks from flanges and valves of all over-ground pipes used to transport material other than water shall be examined. This shall be incorporated into a Schedule of Environmental Objectives and Targets set out in Condition 2 of this licence for the reduction in diffuse emissions.
- 3.16 All wellheads at the installation shall be adequately protected to prevent contamination or physical damage.
- 3.17 The licensee shall maintain in a prominent location on the site a wind sock, or other wind direction indicator, which shall be visible from the public roadway outside the site.
- 3.18 Specified Engineering Works
- 3.18.1. The licensee shall submit proposals for all Specified Engineering Works, as specified in *Schedule E: Specified Engineering Works*, of this licence, to the Agency for its approval at least two months prior to the intended date of commencement of any such works. No such works shall be carried out without the prior approval of the Agency.
- 3.18.2. All specified engineering works shall be supervised by a competent person(s) and that person, or persons, shall be present at all times during which relevant works are being undertaken.
- 3.18.3. Following the completion of all specified engineering works, the licensee shall complete a construction quality assurance validation. The validation report shall be made available to the Agency on request. The report shall, as appropriate, include the following information:
- (i) a description of the works;
  - (ii) as-built drawings of the works; and
  - (iii) any other information requested in writing by the Agency.
- 3.19 Installation Security
- 3.19.1. Security and stock-proof fencing and gates shall be maintained at the installation. Subject to the implementation of the Closure, Restoration and Aftercare Management Plan the requirement for such installation security may be removed.
- 3.19.2. The licensee shall maintain a CCTV monitoring, system which records all waste vehicle movement into and out of the installation. The CCTV system shall be operated at all times with digital date stamping. Copies of recordings shall be kept on site and made available to the Agency on request.
- 3.19.3. There shall be no unauthorised public access to the installation.
- 3.19.4. Gates shall be locked shut when the installation is unsupervised.
- 3.19.5. The licensee shall remedy any defect in the gates and/or fencing as follows:
- (i) a temporary repair shall be made by the end of the working day; and
  - (ii) a repair to the standard of the original gates and/or fencing shall be undertaken within three working days.

### 3.20 Dust and Odour Control

The licensee shall maintain adequate measures for the control of dust and odour emissions, including diffuse dust emissions, from the installation. Installation of a dust and odour management system shall at a minimum include the following:

- (i) dust curtains (or equivalent approved by the Agency) shall be maintained on the entry/exit points from the waste treatment buildings;
- (ii) unless otherwise approved by the Agency, fast action roller shutter doors shall be installed and maintained on all entry/exit points used by waste vehicles;
- (iii) all doors in this building shall be kept closed when not in use;
- (iv) all buildings for the storage or treatment of residual, food and odour-forming waste shall be maintained at negative air pressure with ventilated gases being subject to treatment as necessary or as may be specified by the Agency; and
- (v) the licensee shall maintain and implement a programme to demonstrate negative pressure and building envelope integrity throughout all buildings where residual, food or other odour-forming waste is deposited, stored or treated to ensure that there is no significant escape of odours. The programme shall also maintain all criteria for the operation and control of negative pressure. This programme shall be reviewed at least annually.

### 3.21 Installation and Site Surfaces

- 3.21.1. Effective site roads shall be provided and maintained to ensure the safe and nuisance free movement of vehicles within the installation.
- 3.21.2. The licensee shall maintain an impermeable concrete surface in all areas of the installation used for the movement, holding, storage or processing of waste. The concrete surface shall be constructed to *Standard BS EN 1992-1-1:2004+A1:2004, as amended* or an alternative as approved by the Agency. The licensee shall remedy any defect in concrete surfaces within five working days.

### 3.22 Installation Office

- 3.22.1 The licensee shall provide and maintain an office at the installation. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.
- 3.22.2 The licensee shall provide and maintain a method for electronic transfer of information at the installation.

### 3.23 Waste Inspection and Quarantine Areas

- 3.23.1 A Waste Inspection Area and a Waste Quarantine Area shall be provided and maintained at the installation.
- 3.23.2 These areas shall be constructed and maintained in a manner suitable, and be of a size appropriate, for the inspection of waste and subsequent quarantine if required. The waste inspection area and the waste quarantine area shall be clearly identified and segregated from each other.
- 3.23.3 Drainage from these areas shall be directed to the waste water collection and storage system for collection and safe disposal.

### 3.24 Waste Treatment Infrastructure

- 3.24.1. Waste treatment infrastructure shall at a minimum comprise the following:
  - (i) indoor waste acceptance, inspection, quarantine, storage and treatment/processing areas;
  - (ii) separate storage areas for all waste treatment outputs including any screened fractions;
  - (iii) SRF/RDF infrastructure;



- (iv) air handling and odorous air treatment infrastructure; and
  - (v) waste water management infrastructure.
- 3.24.2. Items of plant deemed critical to the efficient and adequate processing of waste at the installation (including among other things waste loading vehicles and ejector trailers) shall be provided on the following basis:
  - (i) 100% duty capacity; and
  - (ii) Provision of contingency arrangements and/or back up and spares in the case of breakdown of critical equipment.
- 3.24.3. The licensee shall maintain an inventory detailing the duty and standby capacity in tonnes per day, of all waste handling and processing equipment to be used at the facility. These capacities shall be based on the licensed waste intake, as per *Schedule A: Limitations*, of this licence.
- 3.24.4. The quantity of waste to be accepted at the installation on a daily basis shall not exceed the duty capacity of the equipment at the installation. Any exceedance of this intake shall be treated as an incident.
- 3.25 Weighbridge and Wheel Cleaning
  - 3.25.1. The licensee shall maintain a weighbridge and wheel cleaner at the installation.
  - 3.25.2. All waste arriving at or leaving the installation shall be weighed at the weighbridge onsite.
  - 3.25.3. The wheel cleaner shall be used by all vehicles leaving the installation, as required, to ensure that no waste water, waste or storm water is carried off-site. All water from the wheel cleaning area shall be collected for appropriate treatment, reuse or disposal.
  - 3.25.4. The wheel-wash shall be inspected on a daily basis and drained as required. Silt, stones and other accumulated material shall be removed as required from the wheel-wash and disposed of appropriately.
- 3.26 Waste Water Management
  - 3.26.1 The licensee shall maintain a waste water collection and storage system.
  - 3.26.2 All waste water (including sanitary effluent from the site offices, floor washdown water and drainage from waste storage and quarantine areas) shall be collected and stored in the on-site waste water storage tanks prior to disposal off-site.
  - 3.26.3 Waste water stored in the on-site storage tanks shall be tankered off-site in fully enclosed road tankers to an appropriate facility or Wastewater Treatment Plant.
  - 3.26.4 The licensee shall monitor the available storage capacity in the underground waste water storage tanks on a weekly basis. A log of such inspections shall be maintained.
- 3.27 The licensee shall provide and use adequate lighting during the operation of the installation in hours of darkness.
- 3.28 Pipework
  - 3.28.1 The licensee shall label all pipework so as to differentiate between fuels, process flows and waste water. The labelling shall include the direction of flow.
  - 3.28.2 The licensee shall ensure permanent access is maintained at all times to the shut-off valve for surface water run-off in the event of a fire and that the valve is clearly labelled.
- 3.29 Construction and Demolition Waste Recovery Area
  - 3.29.1 The licensee shall maintain a construction and demolition waste recovery area. This infrastructure shall at a minimum comprise the following:
    - (i) an impermeable concrete slab;
    - (ii) collection and disposal infrastructure for all run-off; and

- (iii) appropriate bunding to provide visual and noise screening.
- 3.29.2 All stockpiles shall be adequately contained to minimise dust generation.
- 3.29.3 Only construction and demolition waste shall be accepted at this area. Wastes that are capable of being recovered shall be separated and shall be stored temporarily in this area in advance of being subjected to other recovery activities at the installation or transported off the installation.
- 3.29.4 The licensee shall implement measures to minimise dust generation at this installation and shall as instructed by the Agency install a sprinkling irrigation system for the control of dust nuisance from the installation. Any remedial works necessary to control dust must be implemented within a time-scale to be approved by the Agency.

**Reason:** *To provide for appropriate operation of the installation to ensure protection of the environment.*

## Condition 4. Interpretation

- 4.1 Emission limit values for emissions to atmosphere in this licence shall be interpreted in the following way:
- 4.1.1 Continuous Monitoring
    - (i) No 24 hour mean value shall exceed the emission limit value.
    - (ii) 97% of all 30-minute mean values taken continuously over an annual period shall not exceed 1.2 times the emission limit value.
    - (iii) No 30-minute mean value shall exceed twice the emission limit value.
  - 4.1.2 Non-Continuous Monitoring
    - (i) For any parameter where, due to sampling/analytical limitations, a 30-minute sample is inappropriate, a suitable sampling period should be employed and the value obtained therein shall not exceed the emission limit value.
    - (ii) For flow, no hourly or daily mean value, calculated on the basis of appropriate spot readings, shall exceed the relevant limit value.
    - (iii) For all other parameters, no 30-minute mean value shall exceed the emission limit value.
- 4.2 The concentration and volume flow limits for emissions to atmosphere specified in this licence shall be achieved without the introduction of dilution air and shall be based on gas volumes under standard conditions of:
- 4.2.1 From non-combustion sources:  
Temperature 273K, Pressure 101.3 kPa (no correction for oxygen or water content).
  - 4.2.2 For odour monitoring:  
Temperature 293K, Pressure 101.3 kPa, oxygen and moisture corrections as per relevant process (combustion / non-combustion sources).
- 4.3 Emission limit values for emissions to sewer/waters in this licence shall be achieved without the introduction of dilution, and shall be interpreted in the following way:
- 4.3.1 Continuous Monitoring
    - (i) No flow value shall exceed the specific limit.
    - (ii) No pH value shall deviate from the specified range.
    - (iii) No temperature value shall exceed the limit value.

#### 4.3.2 Composite Sampling

- (i) No pH value shall deviate from the specified range.
- (ii) For parameters other than pH and flow, eight out of ten consecutive composite results, based on flow proportional composite sampling, shall not exceed the emission limit value. No individual results similarly calculated shall exceed 1.2 times the emission limit value.

#### 4.3.3 Discrete Sampling

For parameters other than pH and temperature, no grab sample value shall exceed 1.2 times the emission limit value.

4.4 Where the ability to measure a parameter is affected by mixing before emission, then, with approval from the Agency, the parameter may be assessed before mixing takes place.

#### 4.5 Noise

Noise from the installation shall not give rise to sound pressure levels measured at noise-sensitive locations (NSLs) which exceed the limit value(s).

#### 4.6 Dust and Particulate Matter

Dust and particulate matters from the activity shall not give rise to deposition levels which exceed the limit value(s).

**Reason:** To clarify the interpretation of limit values fixed under this licence.

## Condition 5. Emissions

5.1 Emissions may be made from the specified emission points set out in *Schedule B: Emission Limits*, of this licence subject to compliance with the Emission Limit Values specified in that Schedule.

5.1.1 Uncontaminated storm water may be discharged to surface water.

5.1.2 Uncontaminated storm water may be emitted to groundwater or to soil.

5.1.3 Minor, diffuse and potential emissions may be emitted to air as specified in the application, or as approved by the Agency under Condition 1 of this licence.

5.2 Notwithstanding the requirements of Condition 5.1 above, there shall be no other emissions from the installation.

5.3 Emissions, including emissions giving rise to odours, from the activities carried on at the site shall result in an impairment of, or an interference with amenities or the environment beyond the installation boundary or any other legitimate uses of the environment beyond the installation boundary.

5.4 The licensee shall ensure that all or any of the following:

- Vermin
- Birds
- Flies
- Mud
- Dust
- Litter

associated with the activity do not result in an impairment of, or an interference with, amenities or the environment at the installation or beyond the installation boundary or any other legitimate uses of the environment beyond the installation boundary. Any method used by the licensee to control or prevent any such impairment/interference shall not cause environmental pollution.

- 5.5 The road network in the vicinity of the facility shall be kept free from any debris caused by vehicles entering or leaving the facility. Any such debris or deposited materials shall be removed without delay.

**Reason:** *To provide for the protection of the environment by way of control and limitation of emissions.*

## Condition 6. Control and Monitoring

- 6.1 The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance, calibrations and control techniques as set out below and as in accordance with *Schedule C: Control and Monitoring*, of this licence.
- 6.1.1 Sampling and analysis shall be undertaken by competent staff in accordance with documented operating procedures. Unless otherwise approved by the Agency, sampling and analysis of emissions to atmosphere shall be carried out by ISO 17025 accredited persons/organisations, with accreditation for the relevant scope of sampling and analysis, and in accordance with the Agency's air monitoring policy.
- 6.1.2 Such procedures shall be assessed for their suitability for the test matrix and performance characteristics shall be determined.
- 6.1.3 Such procedures shall be subject to a programme of Analytical Quality Control using appropriate control standards with evaluation of test responses.
- 6.1.4 Where any analysis is sub-contracted it shall be outsourced to a competent laboratory.
- 6.2 The licensee shall ensure that:
- (i) sampling and analysis for all parameters listed in the schedules to this licence; and
- (ii) any reference measurements for the calibration of automated measurement systems shall be carried out in accordance with CEN-standards. If CEN standards are not available, ISO, national or international standards, which will ensure the provision of data of an equivalent scientific quality, shall apply.
- 6.3 All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the activity is being carried on unless alternative sampling or monitoring has been approved in writing by the Agency for a limited period. In the event of the malfunction of any continuous monitor, the licensee shall contact the Agency as soon as practicable, and alternative sampling and monitoring facilities shall be put in place. The use of alternative equipment, other than in emergency situations, shall be as approved by the Agency.
- 6.4 Monitoring and analysis equipment shall be operated and maintained as necessary so that all monitoring results accurately reflect any emission, discharge or parameter specified in this licence.
- 6.5 The licensee shall ensure that groundwater monitoring well sampling equipment is available or installed on-site at the installation and is fit for purpose at all times. The sampling equipment shall be to Agency specifications.
- 6.6 All treatment/abatement and emission control equipment shall be calibrated and maintained in accordance with the instructions issued by the manufacturer/supplier or installer.
- 6.7 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended as required or approved by the Agency following evaluation of test results.
- 6.8 The licensee shall prepare, maintain and implement a programme, to the satisfaction of the Agency, for the identification and reduction of diffuse emissions using an appropriate combination of best available techniques listed in BAT 14 of CID 2018/1147. This programme shall be included in the Environmental Management Programme.

- 6.9 The integrity and water tightness of all tanks, bunding structures, containers and underground pipes and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee.
- 6.9.1 In the case of new bunding structures, tanks, underground pipelines and containers installed on site, the testing for integrity and water tightness shall be undertaken in advance of utilisation;
- 6.9.2 testing shall be carried out by a suitably qualified and experienced person;
- 6.9.3 testing shall be carried out in accordance with any guidance published by the Agency;
- 6.9.4 testing shall be carried out at least once every three years thereafter and reported to the Agency on each occasion;
- 6.9.5 any repairs required to ensure the integrity and water tightness of tanks, bunding structures, containers and underground pipes shall be carried out as soon as practicable; and
- 6.9.6 a written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.
- 6.10 The drainage system (i.e., gullies, manholes, any visible drainage conduits and such other aspects as may be required by the Agency), bunds, silt traps and oil separators shall be inspected weekly, desludged as necessary, and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal. The licensee shall maintain a drainage map on site. The drainage map shall be reviewed annually and updated as necessary.
- 6.11 An inspection system for the detection of leaks on all flanges and valves on over-ground pipes used to transport materials other than water shall be maintained.
- 6.12 Storm Water
- 6.12.1 A visual examination of the storm water discharges shall be carried out daily. A log of such inspections, shall be maintained.
- 6.12.2 Trigger Values
- 6.12.2.1 The licensee shall, within three months of the date of grant of this licence, establish suitable trigger levels for pH, conductivity, suspended solids, total petroleum hydrocarbons and mineral oil in storm water discharges to the satisfaction of the Agency. The trigger values shall be established in accordance with the methods outlined in the Environmental Protection Agency's "*Guidance on the setting of trigger values for storm water discharges to off-site surface waters at EPA IPPC and Waste licensed facilities*".
- 6.12.2.2 The trigger values may be revised, to the satisfaction of the Agency, following evaluation of appropriate storm water monitoring data in accordance with the methods outlined in the Environmental Protection Agency's "*Guidance on the setting of trigger values for storm water discharges to off-site surface waters at EPA IPPC and Waste licensed facilities*".
- 6.12.2.3 The licensee shall establish, maintain and implement a response programme to address any exceedance of the trigger values such that storm waters exceeding these levels will be diverted for retention and suitable disposal.
- 6.12.3 Run-off from process areas of the installation used for the holding, storage and treatment of waste shall be diverted for collection and safe disposal.
- 6.12.4 The licensee shall ensure that storm water that has the potential to become contaminated through contact with waste is physically separated from and managed separately to storm water that does not have the potential to become contaminated through contact with waste.

- 6.13 Noise
- 6.13.1 The licensee shall carry out a noise survey of the site operations annually. The survey programme shall be undertaken in accordance with the methodology specified in the 'Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)' as published by the Agency.
- 6.13.2 The licensee shall use one or a combination of the techniques listed in BAT 18 of CID 2018/1147, in order to minimise noise emissions.
- 6.13.3 Noise Management
- 6.13.3.1 The licensee shall prepare, maintain and implement, to the satisfaction of the Agency, a Noise Management Plan in line with the elements listed in BAT 17 of CID 2018/1147.
- 6.13.3.2 The plan shall be submitted within six months of the date of grant of this licence.
- 6.13.3.3 The plan shall outline noise reduction and abatement measures.
- 6.13.3.4 The plan to reduce noise emissions should include the following mitigation measure(s): abatement and enclosure of operations, processes and equipment giving rise to exceedances of noise limit values measured at noise-sensitive locations.
- 6.13.3.5 The plan shall be prepared in accordance with the Agency's *Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)*.
- 6.13.3.6 The plan shall be implemented within 12 months of the date of grant of this licence.
- 6.13.3.7 The plan shall be reviewed annually.
- 6.14 Odour
- 6.14.1 The licensee shall carry out an odour survey of the site operations as required by the Agency.
- 6.14.2 The survey programme shall be undertaken in accordance with the methodology specified in the 'Air Guidance Note 5 (AG5) Odour Impact Assessment Guidance for EPA Licensed Sites' as published by the Agency.
- 6.15 Odour Management Plan
- 6.15.1 The licensee shall prepare, maintain and implement, to the satisfaction of the Agency, an Odour Management Plan, in line with the elements listed in BAT 12 of CID 2018/1147.
- 6.15.2 The plan shall be submitted within twelve months of the date of grant of this licence.
- 6.15.3 The plan shall outline odour reduction and abatement measures.
- 6.15.4 The plan shall ensure all potential sources of odour at the installation are identified and potentially odorous emissions and nuisance caused by odour are prevented. The plan shall as a minimum address the odour abatement system and the storage and handling of wastes and other materials with a potential for causing odour.
- 6.15.5 The plan shall be prepared in accordance with the Agency's Odour Emissions Guidance Note (Air Guidance Note AG9).
- 6.15.6 The plan shall be reviewed annually.
- 6.16 Pollutant Release and Transfer Register (PRTR)
- The licensee shall submit a PRTR data report for the site. The pollutants and/or wastes to be included in the PRTR shall be determined by reference to EC Regulations No. 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register. The PRTR shall be prepared in accordance with any relevant Agency guidance and shall be submitted electronically in the format specified by the Agency.

- 6.17 The licensee shall maintain a Data Management System for collation, archiving, assessing and graphically presenting the monitoring data generated as a result of this licence.
- 6.18 Groundwater and Soil Monitoring
- The licensee shall carry out monitoring for relevant hazardous substances in soil and groundwater at the site of the installation. The substances for monitoring shall be identified by the licensee by undertaking a risk-based assessment. The risk assessment, sampling and monitoring shall be carried out in accordance with any guidance published by the Agency. The licensee shall have regard to the '*Classification of Hazardous and Non-Hazardous Substances in Groundwater*' as published by the Agency.
- 6.18.1 Monitoring shall be carried out in accordance with *Schedule C.6.2 Groundwater Monitoring* of this licence.
- 6.18.2 Soil monitoring shall be carried out at the site of the installation at least once every ten years. Monitoring shall be carried out in accordance with *Schedule C.6.3 Soil Monitoring* of this licence.
- 6.19 All process effluent and sanitary effluent gullies, drainage grids and manhole covers shall be indicated by a red colour coded system. All non-process clean storm water discharge gullies, drainage grids and manhole covers shall be indicated by blue coloured markings. This system shall be maintained so as to be visible at all times during installation operation. Any identification designated in this licence (e.g. SE-X, SW-X) shall be inscribed on these manholes.
- 6.20 Litter Control
- 6.20.1 All loose litter or other waste, placed on or in the vicinity of the installation, other than in accordance with the requirements of this licence, shall be removed, subject to the agreement of the landowners, immediately and in any event by 10.00 am of the next working day after such waste is discovered.
- 6.20.2 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the installation are appropriately covered.
- 6.21 Dust Control
- In dry weather, site roads and other areas used by vehicles shall be sprayed with water as and when required to minimise airborne dust nuisance.
- 6.22 Operational Controls
- 6.22.1 All residual, food and other odour-forming waste, other than baled and wrapped waste, shall be removed from the installation within 48 hours of its arrival or generation on site, except at Public Holiday weekends. At Public Holiday weekends, this waste shall be removed within 72 hours of its arrival or generation on site.
- 6.22.2 The floors of the waste transfer station and treatment buildings shall be cleaned on a weekly basis and on a daily basis where residual, food and other odour-forming waste is handled.
- 6.22.3 The floor of the storage bays for recovered wastes shall be washed down and cleaned on each occasion when such bays are emptied, or as a minimum on a weekly basis, unless otherwise approved by the Agency.
- 6.22.4 The licensee shall maintain a record of cleaning of the waste transfer station, treatment buildings and storage bays at the installation.
- 6.22.5 All waste treatment equipment shall be cleared of waste at an appropriate frequency.
- 6.22.6 There shall be no unauthorised public access to the installation.
- 6.22.7 Scavenging shall not be permitted at the installation.

**6.23 Vermin and Flies**

The licensee shall maintain and implement a programme for the control and eradication of vermin and fly infestations at the installation. The programme shall include as a minimum, operator training, details on the rodenticide(s) and insecticide(s) to be used, mode and frequency of application and measures to contain sprays within the installation boundary.

**6.24 Nuisance Monitoring**

The licensee shall, daily, inspect the installation and its immediate surrounds for nuisances caused by litter, vermin, birds, flies, odours, mud and dust. The licensee shall maintain a record of all nuisance inspections.

**Reason:** *To provide for the protection of the environment by way of treatment and monitoring of emissions.*

## **Condition 7. Resource Use and Energy Efficiency**

- 7.1 The licensee shall carry out an audit of the energy efficiency of the site as required by the Agency. The audit shall be carried out in accordance with the guidance published by the Agency, “*Guidance Note on Energy Efficiency Auditing*”.
- 7.2 The audit shall identify all practicable opportunities for energy use reduction and efficiency and the recommendations of the audit will be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2 above.
- 7.3 The licensee shall identify opportunities for reduction in the quantity of water used on site including recycling and reuse initiatives, wherever possible, using an appropriate combination of techniques listed in BAT 19 of CID 2018/1147. Reductions in water usage shall be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2 above.
- 7.4 In order to use energy efficiently, the licensee shall use both of the techniques listed in BAT 23 of CID 2018/1147
- 7.5 The licensee shall monitor the consumption of water, energy and raw materials as well as the generation of residues and wastewater annually, in accordance with the techniques listed in BAT 11 of CID 2018/1147.
- 7.6 The licensee shall undertake an assessment of the efficiency of use of raw materials in all processes, having particular regard to the reduction in waste generated. The assessment should take account of best international practice for this type of activity. Where improvements are identified, these shall be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2 above.

**Reason:** *To provide for the efficient use of resources and energy in all site operations.*

## **Condition 8. Materials Handling**

- 8.1 The licensee shall ensure that waste generated in the carrying on of the activity shall be prepared for re-use, recycling or recovery or, where that is not technically or economically possible, disposed of in a manner which will prevent or minimise any impact on the environment.
- 8.2 Disposal or recovery of waste on-site shall only take place in accordance with the conditions of this licence and in accordance with the appropriate National and European legislation and protocols
- 8.3 Waste sent off-site for recovery or disposal
- 8.3.1 Waste sent off-site for recovery or disposal shall be transported only by an authorised waste contractor.



- 8.3.2 Waste shall be transported from the site of the activity to the site of recovery/disposal only in a manner that will not adversely affect the environment and in accordance with the appropriate National and European legislation and protocols.
- 8.3.3 Waste sent off-site for recovery or disposal shall be transferred only to an appropriate facility.
- 8.4 The licensee shall ensure that, in advance of transfer to another person, waste shall be classified, packaged and labelled in accordance with National, European and any other standards which are in force in relation to such labelling.
- 8.5 The loading and unloading of materials shall be carried out in designated areas protected against spillage, leachate run-off and diffuse emissions.
- 8.6 Waste and materials shall be stored in designated areas, protected as may be appropriate against spillage and leachate run-off. The waste and materials shall be clearly labelled and appropriately segregated.
- 8.7 Unless approved in writing, in advance, by the Agency the licensee is prohibited from mixing a hazardous waste of one category with a hazardous waste of another category or with any other non-hazardous waste.
- 8.8 The licensee shall neither import waste into the State nor export waste out of the State except in accordance with the relevant provisions of Regulation (EC) No 1013/2006 of the European Parliament and of the Council of 14th June 2006 on shipments of waste and associated national regulations.
- 8.9 Standards Regarding the Supply of Refuse Derived Fuel (RDF) or Solid Recovered Fuel (SRF)
- 8.9.1 Refuse derived fuel or solid recovered fuel produced at the installation shall be classified and specified in accordance with *I.S. EN ISO 21640:2021 Solid recovered fuels - Specifications and classes* unless otherwise approved by the Agency.
- 8.9.2 No refuse derived fuel or solid recovered fuel shall be supplied to a person or organisation for combustion except where there is in place a technical specification. The technical specification shall be prepared, unless otherwise approved by the Agency, in accordance with *I.S. EN ISO 21640:2021 Solid recovered fuels - Specifications and classes* and shall be agreed between the licensee and the recipient person or organisation.
- 8.9.3 Refuse derived fuel or solid recovered fuel classified as waste shall only be supplied for combustion to an appropriate facility, except in emergencies where, subject to the agreement of the Agency, it may be sent to other authorised waste facilities for temporary storage if authorised combustion facilities are not available.
- 8.9.4 The technical specification referred to in Condition 8.9.1 of this licence shall set out the criteria to be met in order that combustion of the refuse derived fuel or solid recovered fuel will not lead to failure to comply with the conditions of a licence as may be applicable at the appropriate facility.
- 8.9.5 The licensee shall annually, or at a greater frequency if so instructed by the Agency and unless otherwise approved by the Agency, demonstrate, using a method approved or specified by the Agency, that the treatment process for the manufacture of refuse derived fuel or solid recovered fuel results in a materially significant net increase in calorific value over the mixed waste introduced to the treatment process.
- 8.9.6 Bulky metallic and non-metallic parts shall be removed prior to processing waste into RDF/SRF.
- 8.10 Only waste that has been subject to treatment may be dispatched for disposal at a landfill facility. Treatment shall reflect published EPA guidance as set out in *Municipal Solid Waste - Pre-treatment and Residuals Management*, EPA, 2009 as amended. With the approval of the Agency, this condition shall not apply to:
- (i) Inert waste for which treatment is not technically feasible; and

- (ii) Other waste for which such treatment does not contribute to the objectives of the Landfill Directive as set out in Article 1 of the Directive by reducing the quality of the waste or the hazards to human health or the environment.
- 8.11 Each load of waste dispatched to landfill shall be accompanied by documentation verifying the type of treatment carried out on the waste and, in the case of municipal waste or treated municipal waste, its biodegradable content.
- 8.12 Bio-waste shall be stored or held only in separate designated areas at the installation.
- 8.13 All waste reception, storage and processing shall be carried out inside a building or in enclosed vessels. No waste shall be stored or handled outdoors, unless otherwise approved by the Agency.
- 8.14 The licensee shall establish and implement waste handling and transfer procedures in accordance with BAT 5 of CID 2018/1147.
- 8.15 Waste Acceptance and Characterisation Procedures
  - 8.15.1 The licensee shall maintain and implement detailed written procedures and criteria for:
    - (i) basic characterisation, compliance testing, acceptance, on-site verification and handling of all wastes arriving at the installation;
    - (ii) rejection of unacceptable incoming waste; and
    - (iii) ensuring adequate storage capacity exists in advance of waste acceptance.
  - 8.15.2 Waste shall be accepted at the installation only from known waste producers or new waste producers subject to initial waste profiling and basic characterisation offsite. The written records of this off-site waste profiling and characterisation shall be retained by the licensee for all active waste producers and for a two year period following termination of licensee/ waste producer agreements.
  - 8.15.3 Waste shall only be accepted at the installation from local authority waste collection or transport vehicles or holders of valid waste collection permits, unless exempted or excluded, issued under the Waste Management Act 1996 as amended. Copies of these waste collection permits shall be maintained at the installation.
  - 8.15.4 Waste arriving at the installation shall be inspected and have its documentation checked at the point of entry to the installation and subject to this verification, weighed, documented and directed to an appropriate area within the installation. Each load of waste arriving at the installation shall be inspected prior to and during unloading. Only after such inspections shall the waste be processed for disposal or recovery.
  - 8.15.5 Any waste deemed unsuitable for processing at the installation and/or in contravention of this licence shall be immediately separated and removed from the installation at the earliest possible time. Temporary storage of such wastes shall be in a designated Waste Quarantine Area. Waste shall be stored under appropriate conditions in the quarantine area to avoid putrefaction, odour generation, the attraction of vermin and any other nuisance or objectionable condition.
  - 8.15.6 A record of all inspections of incoming waste loads shall be maintained.
  - 8.15.7 The licensee shall maintain a list of the List of Waste codes that are authorised for acceptance at the installation. New waste codes may be added to the list, if approved by the Agency.
  - 8.15.8 No hazardous waste shall be accepted at the installation.
- 8.16 Waste and Materials Storage Plan
  - 8.16.1 The licensee shall submit a revised a Waste and Materials Storage Plan for all waste, stored and held at the installation prior to the acceptance of additional waste greater than 250,000 tonnes per annum.
  - 8.16.2 The licensee shall maintain and implement a Waste and Materials Storage Plan for all waste, and other material and waste water stored and held at the installation.
  - 8.16.3 The Waste and Materials Storage Plan shall be adequate to ensure compliance with all conditions of this licence.

- 8.16.4 The Waste and Materials Storage Plan shall be to the satisfaction of the Agency at all times.
- 8.16.5 The Waste and Materials Storage Plan shall incorporate:
- (i) the techniques listed in BAT 4 of CID 2018/1147;
  - (ii) the recommendations of the Fire Risk Assessment required by Condition 9.5 of this licence;
  - (iii) a limit on the total quantity of waste to be stored at the installation at any one time;
  - (iv) maximum stockpile sizes in designated storage areas or vessels including maximum volume, height, length, width and area, and minimum separation distances;
  - (v) a limit on the maximum storage or holding period for each type of waste in designated storage areas or vessels;
  - (vi) limitations, as may be necessary, on waste storage arrangements to be used to prevent odours arising;
  - (vii) a drawing or plan of the location of each waste type and the means of storage for each waste type (e.g. as loose waste, baled, in sealed containers);
  - (viii) details of the drainage system super-imposed on the above drawing or plan; and
  - (ix) a designated fire quarantine area.
- 8.16.6 Waste storage and holding practices at the installation shall comply at all times with the Waste and Materials Storage Plan.
- 8.16.7 Waste accepted or generated at the installation shall be stored or held only in designated areas or vessels that have been identified in the Waste and Materials Storage Plan.
- 8.16.8 All designated areas or vessels for storage or holding of waste and waste water shall be:
- clearly labelled;
  - appropriately segregated; and
  - visibly or physically delineated by walls, dividers, painted lines or marks on the ground or other methods acceptable to the Agency.
- 8.16.9 The Emergency Response Procedure as required under Condition 9 of this licence shall include an up-to-date copy of the Waste and Materials Storage Plan.
- 8.16.10 The Waste and Material Storage Plan shall include in its scope any material that was waste but has achieved end-of-waste status.
- 8.17 Wrapping of baled municipal waste
- 8.17.1 The wrapping of baled municipal waste, RDF, SRF and other waste shall be carried out in such a manner that:
- the waste is fully contained,
  - the emission of odour from the wrapped bales is prevented,
  - access by vermin is prevented, and
  - the discharge of contaminated run-off from the wrapped bales is prevented.
- 8.17.2 Each bale shall be labelled with:
- its date of production,
  - its content and LoW code, and
  - the name of the installation and its licence register number (W0261-03).
- 8.17.3 The licensee shall maintain and implement operating procedures for the baling and wrapping of waste.

- 8.17.4 The integrity of each wrapped bale shall be checked fortnightly and prior to its dispatch from the installation. Any damaged bales shall be repaired within 24 hours of damage being detected. No damaged bales shall be dispatched from the installation. Records of these checks and repairs shall be maintained at the installation.
- 8.18 Unless approved by the Agency the licensee shall not dispose of any waste that has been accepted at the installation for the purpose of a recovery activity. This condition shall not apply to non-recyclable waste that is separated for disposal by the licensee from the incoming waste.

**Reason:** *To provide for the appropriate handling of material and the protection of the environment.*

## **Condition 9. Accident Prevention and Emergency Response**

- 9.1 The licensee shall ensure that a documented Accident Prevention Procedure is in place that addresses the hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment. This procedure shall be reviewed annually and updated as necessary.
- 9.2 The licensee shall ensure that a documented Emergency Response Procedure is in place, that addresses any emergency situation which may originate on-site. This procedure shall include provision for minimising the effects of any emergency on the environment. This procedure shall be reviewed annually and updated as necessary.
- 9.3 Incidents
- 9.3.1 In the event of an incident the licensee shall immediately:
- (i) carry out an investigation to identify the nature, source and cause of the incident and any emission arising therefrom;
  - (ii) isolate the source of any such emission;
  - (iii) evaluate the environmental pollution, if any, caused by the incident;
  - (iv) identify and execute measures to minimise the emissions/malfunction and the effects thereof;
  - (v) identify the date, time and place of the incident; and
  - (vi) notify the Agency as required by Condition 11.3 of this licence.
- 9.3.2 Where an incident or accident that significantly affects the environment occurs, the licensee shall, without delay take measures to limit the environmental consequences of the incident or accident and to prevent further incident or accident.
- 9.4 Emergencies
- 9.4.1 In the event of a breakdown of equipment or any other occurrence which results in the closure of the installation for more than 48 hours, and on approval by the Agency, any waste arriving at the installation shall be transferred directly to an alternative appropriate facility until such time as the installation is returned to a fully operational status. The breakdown of equipment or any other occurrence which results in the closure of the installation, regardless of duration, shall be treated as an emergency and rectified as soon as possible.
- 9.4.2 All significant spillages occurring at the installation shall be treated as an emergency and immediately cleaned up and dealt with so as to alleviate their effects.
- 9.4.3 No waste shall be burnt within the boundaries of the installation. A fire at the installation shall be treated as an emergency and immediate action shall be taken to extinguish it and notify the appropriate authorities.

- 9.5 The licensee shall arrange prior to the acceptance of additional waste greater than 250,000 tonnes per annum and every three years thereafter or as directed by the Agency, for the completion, by an independent and appropriately qualified consultant, of a fire risk assessment for the installation. The assessment shall examine all relevant factors on site that impinge on fire risk and prevention. The assessment shall have regard to any guidelines issued by the Agency with regard to fire risk assessment. A report on the fire risk assessment shall be prepared and notified to the Agency, in accordance with Condition 11.10 of this licence. Any recommendations in the fire risk assessment shall be implemented by the licensee.

**Reason:** *To provide for the protection of the environment.*

## **Condition 10. Closure, Restoration and Aftercare Management**

- 10.1 Following termination, or planned cessation for a period greater than six months, of use or involvement of all or part of the site in the licensed activity, the licensee shall, to the satisfaction of the Agency, decommission, render safe or remove for disposal/recovery any soil, subsoil, buildings, plant or equipment, or any waste, materials or substances or other matter contained therein or thereon, that may result in environmental pollution. A final validation report to include a certificate of completion to demonstrate there is no continuing risk to the environment shall be submitted to the Agency within three months of termination or planned cessation of the activity.
- 10.2 Closure, Restoration and Aftercare Management Plan (CRAMP)
- 10.2.1 The licensee shall maintain to the satisfaction of the Agency, a fully detailed plan for the decommissioning or closure of the site or part thereof. The licensee shall submit a revised CRAMP for agreement by the Agency prior to the acceptance of additional waste greater than 250,000 tonnes per annum. The licensee shall maintain a fully and costed plan for the closure, restoration and long-term aftercare of the site or part thereof.
- 10.2.2 The plan shall be reviewed annually and proposed amendments thereto notified to the Agency for agreement. No amendments may be implemented without the agreement of the Agency.
- 10.3 The Closure, Restoration and Aftercare Management Plan (CRAMP) shall include, as a minimum, the following:
- (i) a scope statement for the plan;
  - (ii) the criteria that define the successful closure and restoration and aftercare of the activity or part thereof, which ensures minimum impact on the environment;
  - (iii) a programme to achieve the stated criteria;
  - (iv) where relevant, a test programme to demonstrate the successful implementation of the plan;
  - (v) details of the long-term supervision, monitoring, control, maintenance and reporting requirements for the restored facility; and
  - (vi) details of the costings for the plan.
- 10.4 The licensee shall, prior to the acceptance of additional waste greater than 250,000 tonnes per annum and to the satisfaction of the Agency, make financial provision to cover any liabilities associated with closure, restoration and aftercare identified in Condition 10.2 above. The amount of financial provision held shall be reviewed and revised as necessary.

- 10.5 The licensee shall have regard to the Environmental Protection Agency's *Guidance on Assessing and Costing Environmental Liabilities (2014) and Guidance on Financial Provision for Environmental Liabilities (2015)*, as may be amended or replaced, when implementing Conditions 10.2, 10.3 and 10.4 above.

**Reason:** *To make provision for the proper closure of the activity ensuring protection of the environment.*

## Condition 11. Notification, Records and Reports

- 11.1 The licensee shall submit the reports, proposals and submissions required by this licence by the deadlines specified. The licensee shall not be in compliance with the requirements of this condition unless and until it has submitted every report, proposal and submission, the deadline for which has passed.
- 11.2 The licensee shall carry out every action required by the Agency, and arising out of such reports, proposals or submissions, by such deadline as the Agency may specify. The licensee shall not be in compliance with the requirements of this condition unless and until it has carried out every such action.
- 11.3 The licensee shall notify the Agency, in a format as may be specified by the Agency, as soon as practicable after the occurrence of any of the following:
- (i) an incident or accident as defined by the glossary;
  - (ii) any breach of one or more of the conditions attached to this licence.
- The licensee shall include as part of the notification, date and time of the incident, summary details of the occurrence, and where available, the steps taken to minimise any emissions. All details required to be communicated must be in accordance with any guidance provided by the Agency.
- 11.4 In the event of any incident which relates to discharges to sewer having taken place, the licensee shall notify Uisce Éireann and the Local Authority in a manner prescribed by Uisce Éireann, as soon as practicable after such an incident.
- 11.5 The following shall be notified, as soon as practicable after the occurrence of any incident which relates to a discharge to water:
- (i) Inland Fisheries Ireland / Department of Agriculture, Food and the Marine in the case of discharges to receiving waters.
  - (ii) Uisce Éireann and / or Water Services Authority in the case of any incident where the discharge(s) have been identified as upstream of a drinking water abstraction point.
  - (iii) The local authority, in the case of discharges to designated bathing waters.
- 11.6 The licensee shall make a record of any notification made under Condition 11.3 above. This record shall include details of the nature, extent, and impact of, and circumstances giving rise to, the incident or accident. The record shall include all corrective actions taken to manage the incident or accident, minimise wastes generated and the effect on the environment, and avoid recurrence. In the case of a breach of a condition, the record shall include measures to restore compliance.
- 11.7 The licensee shall record all complaints of an environmental nature related to the operation of the activity. Each such record shall give details of the date and time of the complaint, the name of the complainant (if provided), and give details of the nature of the complaint. A record shall also be kept of the response made in the case of each complaint.
- 11.8 The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and all other such monitoring which relates to the environmental performance of the installation.

- 11.9 The licensee shall as a minimum ensure that the following documents are accessible at the site:
- (i) the licences relating to the installation;
  - (ii) the current EMS for the installation including all associated procedures, reports, records and other documents;
  - (iii) the previous year's AER for the installation;
  - (iv) records of all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and all other such monitoring which relates to the environmental performance of the installation;
  - (v) relevant correspondence with the Agency;
  - (vi) up-to-date site drawings/plans showing the location of key process and environmental infrastructure, including monitoring locations and emission points;
  - (vii) up-to-date Standard Operational Procedures for all processes, plant and equipment necessary to give effect to this licence or otherwise to ensure that standard operation of such processes, plant or equipment does not result in unauthorised emissions to the environment; and
  - (viii) any elements of the licence application or EIA documentation referenced in this licence.
- This documentation shall be available to the Agency for inspection at all reasonable times.
- 11.10 The licensee shall submit to the Agency annually, or as otherwise approved by the Agency,
- 11.10.1 An AER covering the previous calendar year, which shall be;
- (i) to the satisfaction of the Agency and include as a minimum the information specified in *Schedule D: Annual Environmental Report*, of this licence;
  - (ii) prepared in accordance with any relevant guidelines issued by the Agency; and
  - (iii) submitted by the 31<sup>st</sup> March of each year.
- 11.10.2 The results of all emission monitoring carried out in accordance with the requirements of this licence; including an assessment and interpretation of the results.
- 11.11 A full record, which shall be open to inspection by authorised persons of the Agency at all times, shall be kept by the licensee on matters relating to the waste management operations and practices at this site. This record shall be maintained on a monthly basis and shall as a minimum contain details of the following:
- (i) the tonnages and LoW Code for the waste materials imported and/or sent off-site for disposal/recovery;
  - (ii) the names of the agent and carrier of the waste, and their waste collection permit details, if required (to include issuing authority and vehicle registration number);
  - (iii) details of the ultimate disposal/recovery destination facility for the waste and its appropriateness to accept the consigned waste stream, to include its permit/licence details and issuing authority, if required;
  - (iv) written confirmation of the acceptance and disposal/recovery of any hazardous waste consignments sent off-site;
  - (v) details of all waste consigned abroad for Recovery and classified as 'Green' in accordance with the EU Shipment of Waste Regulations (Council Regulation EEC No. 1013/2006, as may be amended). The rationale for the classification must form part of the record;
  - (vi) details of any rejected consignments;
  - (vii) details of any approved waste mixing;
  - (viii) the results of any waste analyses required under *Schedule C: Control and Monitoring*, of this licence;
  - (ix) the tonnage and LoW Code for the waste materials recovered/disposed on-site; and
  - (x) any other records as may be specified by the Agency.

- 11.12 The licensee shall maintain an electronic record for each load of waste arriving at and departing from the installation. The licensee shall record the following:
- (i) the date and time;
  - (ii) the name of the carrier (including if appropriate, the waste carrier registration details/waste collection permit number);
  - (iii) the vehicle registration number;
  - (iv) the trailer, skip or other container unique identification number (where relevant);
  - (v) the name of the producer(s)/collector(s) of the waste as appropriate;
  - (vi) the name of the waste facility (if appropriate) from which the load originated including;
  - (vii) the waste licence or waste permit register number (if appropriate);
  - (viii) a description of the waste including the associated LoW codes;
  - (ix) the quantity of the waste, recorded in tonnes;
  - (x) details of the treatment(s) on-site and prior to arrival to which the waste has been subjected;
  - (xi) whether the waste is for disposal or recovery and if recovery for what purpose;
  - (xii) the name of the person checking the load;
  - (xiii) where loads or wastes are removed, or rejected, details of the date of occurrence, the types of waste and the facility to which they were removed, including waste licence and waste permit register number of the facility; and
  - (xiv) where applicable, a consignment note number (including transfrontier shipment notification and movement/tracking form numbers, as appropriate).
- 11.13 The licensee shall submit report(s) electronically as required by the conditions of this licence to the Agency.
- 11.14 All reports shall be certified accurate and representative by the installation manager or a nominated, suitably qualified and experienced deputy.

**Reason:** *To provide for the collection and reporting of adequate information on the activity.*

## **Condition 12. Financial Charges and Provisions**

### **12.1 Agency Charges**

- 12.1.1 The licensee shall pay to the Agency an annual contribution of €13,749, or such sum as the Agency from time to time determines, having regard to variations in the extent of reporting, auditing, inspection, sampling and analysis or other functions carried out by the Agency, towards the cost of monitoring the activity as the Agency considers necessary for the performance of its functions under the Environmental Protection Agency Act 1992 as amended. The first payment shall be a pro-rata amount for the period from the date of grant of this licence to the 31<sup>st</sup> day of December, and shall be paid to the Agency within one month from the date of grant of this licence. In subsequent years the licensee shall pay to the Agency such revised annual contribution as the Agency shall from time to time consider necessary to enable performance by the Agency of its relevant functions under the Environmental Protection Agency Act 1992 as amended, and all such payments shall be made within one month of the date upon which demanded by the Agency.
- 12.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased, the licensee shall contribute such sums as determined by the Agency to defray its costs in regard to items not covered by the said annual contribution.

### **12.2 Environmental Liabilities**

- 12.2.1 The licensee shall, prior to the acceptance of additional waste greater than 250,000 tonnes per annum, arrange for the revision, by an independent and appropriately



qualified consultant, of a comprehensive and fully costed (revised) Environmental Liabilities Risk Assessment (ELRA) which addresses the liabilities from past and present activities. A report on this assessment shall be submitted for approval and agreement by the Agency. The ELRA shall be reviewed as necessary to reflect any significant change on site, and in any case every three years following initial agreement.

- 12.2.2 The licensee shall prior to the acceptance of additional waste greater than 250,000 tonnes per annum and to the satisfaction of the Agency, make financial provision to cover any liabilities with respect to the ELRA in Condition 12.2.1 above. The amount of financial provision held shall be reviewed and revised as necessary.
- 12.2.3 The licensee shall have regard to the Environmental Protection Agency's *Guidance on Assessing and Costing Environmental Liabilities (2014)* and *Guidance on Financial Provision for Environmental Liabilities (2015)*, as may be amended or replaced, when implementing Conditions 12.2.1 and 12.2.2 above.

<p><b>Reason:</b> <i>To provide for adequate financing for monitoring and financial provisions for measures to protect the environment.</i></p>
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## SCHEDULE A: Limitations

### A.1 Limitations on the installation

The following waste related processes are authorised:

- Non-hazardous C&D waste recovery (incl. Crushing, screening, sorting, blending);
- Recovery of waste listed in *Schedule A.2 Waste Acceptance*, of this licence;
- Storage of waste;
- Baling and wrapping of wastes.

No additions to these processes are permitted unless approved in advance by the Agency.



### A.2 Waste Acceptance

*Table A.2. Waste Categories and Quantities*

Total maximum annual quantity of wastes to be accepted: 450,000 tonnes per annum.

Description	List of Waste codes	Waste Description	Maximum <sup>Note 2</sup> (Tonnes Per Annum)
<b>Non-hazardous waste</b> <sup>Note 1</sup>	19 12 12	Waste from Mechanical Treatment of Waste	165,500
	19 12 02	Ferrous Metal	1,000
	20 01 01	Paper and cardboard	15,000
	20 01 02	Glass	500
	20 01 08	Biodegradable kitchen and canteen waste	30,000
	20 01 38	Wood	1,000
	20 01 39	Plastics	10,000
	20 01 40	Metals	1,000
	20 02 01	Biodegradable garden and park waste	1,000
	20 03 01	Dry mixed Recyclables	40,000
	20 03 01	Mixed municipal waste	31,000
	20 03 02	Waste from markets	1,000
	20 03 07	Bulky waste	65,000
	15 01 01	Paper and cardboard packaging	45,000
	15 01 02	Plastic packaging	32,000
	15 01 03	Wooden packaging	1,000
	15 01 04	Metallic packaging	500
	15 01 05	Composite packaging	500
	15 01 06	Mixed packaging	500
15 01 07	Glass packaging	1,000	

Description	List of Waste codes	Waste Description	Maximum <sup>Note 2</sup> (Tonnes Per Annum)
	16 01 03	End-of- Life Tyres	200
	16 03 06	Off-specification batches and unused products organic wastes	2,000
	02 02 03	wastes from the preparation and processing of meat, fish and other foods of animal origins	2,500
	02 03 04	wastes from fruit, vegetables, cereals, etc	
	02 05 01	waste from dairy products industry	
	02 06 01	waste from baking and confectionary industry	
	02 07 04	Waste from production of alcoholic and non-alcoholic beverages	
<b>Construction and demolition Waste</b>	17 01 07	Mixtures of concrete, bricks, tiles and ceramics	2,800
	17 02 01	Wood	
	17 02 03	Plastic	
	17 04 06	Tin	
	17 04 07	Mixed Metals	
	17 05 04	Soil and stones	
	17 08 02	Gypsum-based construction materials	
	17 09 04	Mixed construction and demolition waste	
<b>Non-Hazardous Waste Total</b>			450,000
<b>Total</b>			450,000

**Note 1:** Any proposals to accept other compatible non-hazardous waste types must be approved in advance by the Agency.

**Note 2:** The limitation on individual non-hazardous waste types may be varied with the approval of the Agency subject to the total limit for non-hazardous waste staying the same.



## SCHEDULE B: Emission Limits

### B.1 Emissions to Air

**Emission Point Reference No:** A2-1  
**Location:** Building A1  
**Volume to be emitted:** Maximum rate per hour: 25,000 m<sup>3</sup>  
**Minimum discharge height:** 14 m above ground

Parameter	Emission Limit Value
Odour	1,000 OuE/m <sup>3</sup>

### B.2 Emissions to Water

There shall be no emissions to water of environmental significance.

### B.3 Emissions to Sewer

There shall be no process effluent emissions to sewer.

### B.4 Noise Emissions

Daytime dB L <sub>A1,T</sub> (30 minutes)	Evening time dB L <sub>A1,T</sub> (30 minutes)	Night-time dB L <sub>Aeq,T</sub> (30 minutes) <sup>Note 1</sup>
55	50	45

Note 1: During night time hours, there shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at any noise-sensitive location.

### B.5 Dust Deposition Limits

**Location:** AD1 (Eastern corner of installation)  
 AD2 (North western corner of installation)  
 and any other location as approved by the Agency.

Parameter	Limit Value <sup>Note 1</sup>
Total dust deposition	350 mg/m <sup>2</sup> /day

Note 1: 30-day composite sample with the results expressed as mg/m<sup>2</sup>/day.

## SCHEDULE C: Control and Monitoring

### C.1.1. Control of Emissions to Air

**Emission Point Reference No:** A2-1  
**Description of Treatment:** Odour control unit including dust filter and activated carbon treatment unit

Parameter	Monitoring	Key Equipment <sup>Note 1</sup>
Flow	Continuous	Flow meter
Static pressure across the filter	Continuous	Pressure sensors
Odour character	Daily	Sniff Ports
Carbon Media – Condition <sup>Note 2</sup>	Monthly	N/A

Note 1: The licensee shall maintain appropriate access to standby and/or spares to ensure the operation of the abatement system.

Note 2: The activated carbon shall be replaced as required.



### C.1.2. Monitoring of Emissions to Air

**Emission Point Reference No:** A2-1

Parameter	Monitoring Frequency	Analysis Method/Technique
Flow	Continuous	Flow meter
Odour	Quarterly	Standard Method
Particulates	Biannually	Standard Method



### C.2.1. Control of Emissions to Water

There shall be no emissions to water of environmental significance.



### C.2.2. Monitoring of Emissions to Water

There shall be no emissions to water of environmental significance.



### ***C.2.3. Monitoring of Storm Water Emissions***

Emission Point Reference No: SW-1

<b>Parameter <sup>Note 1</sup></b>	<b>Monitoring Frequency</b>	<b>Analysis Method/Technique</b>
pH	Weekly	Standard method
Conductivity	Weekly	Standard method
Suspended solids	Weekly	Standard method
Total petroleum hydrocarbons	Quarterly	Standard method
Mineral oil	Quarterly	Standard method
Visual Inspection	Daily	Sample and examine for colour and odour.

Note 1: Other parameters as may be required by the Agency.

### ***C.3.1. Control of Emissions to Sewer***

There shall be no process effluent emissions to sewer.

### ***C.3.2. Monitoring of Emissions to Sewer***

There shall be no process effluent emissions to sewer.

### ***C.4 Waste Monitoring***

<b>Waste Class</b>	<b>Frequency</b>	<b>Parameter</b>	<b>Method</b>
Municipal waste dispatched to landfill	As may be specified by the Agency	BMW content	Waste characterisation of other methods as may be specified
To be approved by the Agency <sup>Note 1</sup>	To be approved by the Agency	To be approved by the Agency	To be approved by the Agency

Note 1: Analytical requirements to be determined on a case by case basis.

### ***C.5 Noise Monitoring***

No additional noise monitoring is required in this schedule.

**C.6 Ambient Monitoring**

**C.6.1 Air Monitoring**

**Location:** AD-1 and AD-2, as per Drawing No. 11.1, Rev. A (Monitoring Locations) of the application, or as may be amended under Condition 6.7 of this licence.

Parameter	Monitoring Frequency	Analysis Method/Technique
Dust deposition	Biannually <sup>Note 1</sup>	Bergerhoff <sup>Note 2</sup>

**Note 1:** Once during the period May to September, or as otherwise specified in writing by the Agency.

**Note 2:** VDI 4320 (Measurement of atmospheric depositions, Determination of the dust deposition according to the Bergerhoff method).



**C.6.2 Groundwater Monitoring**

**Location:** Well No. BH1 or alternative monitoring location(s) approved by the Agency.

Parameter	Monitoring Frequency	Analysis Method/Techniques
Relevant Hazardous Substances <sup>Note1</sup>	Annually	Standard Method

**Note 1:** The relevant hazardous substances for monitoring in groundwater shall be as per the 'Baseline Report' submitted with the application. Monitoring for the identified hazardous substances shall be carried out at least annually, unless a case for less frequent monitoring is approved by the Agency.



**C.6.3 Soil Monitoring**

**Location:** As per the 'Baseline Report' or alternative monitoring location(s) approved by the Agency <sup>Note 1</sup>

Parameter	Monitoring Frequency	Analysis Method/Techniques
Relevant Hazardous Substances <sup>Note 2</sup>	Every ten years	Standard Method

**Note 1:** As per the 'Baseline Report', submitted with the licence application W0261-02.

**Note 2:** Soil monitoring for relevant hazardous substances shall be in accordance with Condition 6.18 of this licence.



**SCHEDULE D: Annual Environmental Report**

Annual Environmental Report Content <sup>Note 1 and 2</sup>
Environmental Management objectives and targets summary. Energy and water use and generation summary. Complaints summary. Incidents Summary. Emissions Summary. Waste Management Summary. Any other items specified in the licence conditions or by the Agency.

**Note 1:** Content may be revised subject to the agreement of the Agency.

**Note 2:** The AER shall be completed in accordance with current Agency guidance.




## SCHEDULE E: Specified Engineering Works

Specified Engineering Works
Out-of-date food depackaging plant. Construction and demolition recovery area. Any other works notified in writing by the Agency.

Sealed by the seal of the Agency on this the 16 day of May 2024.

**PRESENT** when the seal of the Agency  
Was affixed hereto:

  
\_\_\_\_\_  
Tara Gillen, Authorised Person

