



Headquarters
P.O. Box 3000
Johnstown Castle Estate
County Wexford
Ireland

INDUSTRIAL EMISSIONS LICENCE
Recommended Decision

Licence Register Number:	W0082-03
Company Register Number:	527552
Licensee:	Starrus Eco Holdings Limited
Location of Installation:	Ballykeefe Dock Road Limerick

INTRODUCTION

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

The installation comprises a waste transfer station and a civic amenity facility. The accepted waste types include municipal waste, packaging waste, commercial waste, industrial waste and construction and demolition (C&D) waste. This licence authorises the acceptance of 130,000 tonnes of waste per annum and the production of solid recovered fuel (SRF).

For the purposes of the EU Industrial Emissions Directive (2010/75/EU), this installation falls within the scope of the following Annex I categories:

Category 5.3 (b): 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:

(ii) pre-treatment of waste for incineration or co-incineration.

The 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 Acts 1992 as amended / Waste Management Acts 1996 as amended, unless otherwise defined in the section.

Adequate lighting	20 lux measured at ground level.
AER	Annual Environmental Report.
Agreement	Agreement in writing.
Annually	All or part of a period of twelve consecutive months.
Application	The application by the licensee for this licence.
Appropriate Facility	A waste management facility, duly authorised under relevant law and technically suitable.
Attachment	Any reference to Attachments in this licence refers to attachments submitted as part of this licence application.
Basic characterisation	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.
BAT	Best Available Techniques.
BAT conclusions	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.
BAT reference document	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.
Biannually	At approximately six – monthly intervals.
Biennially	Once every two years.
Biodegradable waste	Any waste that is capable of undergoing anaerobic or aerobic decomposition, such as food, garden waste, sewage sludge, paper and paperboard.
Biodegradable municipal waste (BMW)	The biodegradable component of municipal waste, typically composed of food and garden waste, wood, paper, cardboard and textiles.

BOD	5 day Biochemical Oxygen Demand (without nitrification suppression).
CEN	Comité Européen De Normalisation -- European Committee for Standardisation.
COD	Chemical Oxygen Demand.
Commercial Waste	As defined in Section 5(1) of the Waste Management Acts 1996, as amended.
Compliance Testing	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.
Construction and demolition (C&D) waste	Wastes that arise from construction, renovation and demolition activities: Chapter 17 of the EWC or as otherwise may be agreed.
Containment boom	A boom that can contain spillages and prevent them from entering drains or watercourses or from further contaminating watercourses.
CRO Number	Company Register Number.
Daily	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.
Day	Any 24 hour period.
Daytime	0700 hrs to 1900 hrs.
dB(A)	Decibels (A weighted).
DO	Dissolved oxygen.
Documentation	Any report, record, results, data, drawing, proposal, interpretation or other document in written or electronic form which is required by this licence.
Drawing	Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this licence.
Emission limits	Those limits, including concentration limits and deposition rates, established in <i>Schedule B: Emission Limits</i> , of this licence.
EMP	Environmental Management Programme.
Environmental damage	As defined in Directive 2004/35/EC.
EPA	Environmental Protection Agency.

European Waste Catalogue (EWC)	A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 2000/532 EC and any subsequent amendment published in the Official Journal of the European Community.
Evening Time	1900 hrs to 2300 hrs
Facility	Any site or premises used for the purpose of the recovery or disposal of waste.
Fortnightly	A minimum of 24 times per year, at approximately two week intervals.
Gas Oil	Gas Oil as defined in Council Directive 1999/32/EC and meeting the requirements of S.I. No. 119 of 2008.
Groundwater	Has the meaning assigned to it by Regulation 3 of the European Communities Environmental Objectives (Groundwater) Regulations 2010 (S.I. No. 9 of 2010).
ha	Hectare.
Heavy metals	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.
Hours of operation	The hours during which the installation is authorised to be operational.
Hours of waste acceptance	The hours during which the installation is authorised to accept waste.
IE	Industrial Emissions.
Incident	The following shall constitute as 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 exceedance of the daily duty capacity of the waste handling equipment; (iv) any trigger level specified in this licence which is attained or exceeded; and (v) any indication that environmental pollution has, or may have, taken place.
Industrial Emissions Directive	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).

Industrial waste	As defined in Section 5(1) of the Waste Management Acts 1996 as amended.
Inert waste	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 must not endanger the quality of surface water and/or groundwater.
Installation	A stationary technical unit or plant where the activity concerned referred to in the First Schedule of EPA Acts 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.
Irish Water	Irish Water, Colvill House, 24/26 Talbot Street, Dublin 1.
K	Kelvin.
kPa	Kilopascals.
$L_{Aeq,T}$	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).
Landfill Directive	Council Directive 1999/31/EC.
$L_{A,r,T}$	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.
Licensee	Starrus Eco Holdings Limited, Fassaroe, Bray, County Wicklow, CRO Number 527552.
Liquid waste	Any waste in liquid form and containing less than 2% dry matter.
Local Authority	Limerick City and County Council.
Maintain	Keep in a fit state, including such regular inspection, servicing, calibration and repair as may be necessary to perform its function adequately.
Monthly	A minimum of 12 times per year, at intervals of approximately one month.
Municipal waste	As defined in Section 5(1) of the Waste Management Act 1996, as amended.
Night-time	2300 hrs to 0700 hrs.

Noise-sensitive location (NSL)	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.
Oil separator	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).
PRTR	Pollutant Release and Transfer Register.
Quarterly	All or part of a period of three consecutive months beginning on the first day of January, April, July or October.
Recyclable materials	Waste types, such as cardboard, batteries, gas cylinders etc, may be recycled.
Refuse Derived Fuel (RDF)	Fuel that has been produced in accordance with a technical standard from pre-treated non-hazardous municipal, commercial or industrial waste.
Residual waste	The fraction of collected waste remaining after a treatment or diversion step, which generally requires further treatment or disposal, including mixed municipal waste.
Sample(s)	Unless the context of this licence indicates to the contrary, the term samples shall include measurements taken by electronic instruments.
Sanitary effluent	Wastewater from installation toilet, washroom and canteen facilities.
Separate Collection	The collection of bio-waste separately from other kinds of waste in such a way as to avoid the different waste fractions or waste components from waste being mixed, combined or contaminated with other potentially polluting wastes, products or materials.
Soil	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.
Solid recovered fuel (SRF)	Fuel that has been produced in accordance with a technical standard from pre-treated non-hazardous municipal, commercial or industrial waste.
SOP	Standard operating procedure.
Source segregated waste	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.
Specified emissions	Those emissions listed in <i>Schedule B: Emission Limits</i> , of this licence.
Specified Engineering Works	Engineering works listed in <i>Schedule D: Specified Engineering Works</i> of this licence.
Standard method	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 agreed by the Agency.

Storage	Includes holding of waste
Storm water	Rain water run-off from roof and non-process areas.
Temporary storage	In relation to waste is a period of less than six months as defined in the Waste Management Acts 1996, as amended.
The Agency	Environmental Protection Agency.
Trade effluent	Trade effluent has the meaning given in the Water Services Act, 2007.
Treatment/Pre-treatment	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.
Trigger level	A parameter value, the achievement or exceedance of which requires certain actions to be taken by the licensee.
Waste	Any substance or object which the holder discards or intends or is required to discard.
Water Services Authority	Limerick City and County Council.
WEEE	As defined in the European Union (Waste Electrical and Electronic Equipment) Regulations, 2014 (S.I. No. 149 of 2014).
Weekly	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.
WWTP	Waste water treatment plant.

Decision & 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 Acts 1992 as amended.

In reaching this decision the Environmental Protection Agency has considered the documentation relating to the current licence, Register Number: W0082-02, and the review application Register Number: W0082-03. This includes supporting documentation received from the applicant, the report of the Licensing Inspector and the Environmental Impact Assessment (EIA) report contained therein.

It is considered that the Environmental Impact Assessment Report (as included in the Inspectors Report dated **17 December 2014**) contains a fair and reasonable assessment of the likely significant effects of the licensed activity on the environment. The assessment as reported is adopted as the assessment of the Agency. Having regard to this assessment, it is considered that the proposed activity, if managed, operated and controlled in accordance with the licence will not result in the contravention of any relevant environmental quality standards or cause environmental pollution.

A screening for Appropriate Assessment was undertaken to assess, in view of best scientific knowledge and the conservation objectives of the site, if the activity, individually or in combination with other plans or projects, is likely to have a significant effect on a European Site(s). In this context, particular attention was paid to the European site(s) at **Lower River Shannon SAC (site code 002165) and River Shannon and River Fergus Estuaries SPA (site code 004077)**. The Agency considered, for the reasons set out below, that the activity is not directly connected with or necessary to the management of the site as a European site and that it cannot be excluded, on the basis of objective information, that the activity, individually or in combination with other plans or projects will have a significant effect on a European site, and accordingly the Agency determined that an Appropriate Assessment of the activity is required, and for this reason determined to require the applicant to submit a Natura Impact Statement.

The following reasons contributed to the determination that the Appropriate Assessment of the activity is required:

- **The existing pollution in storm water discharges from the installation to adjacent drain that ultimately discharges into above SPA and SAC, and the fact that mitigation measures, i.e. re-engineering of drainage system, will need to be put in place to prevent further discharge of the polluted storm water.**
- **The close proximity of the Lower River Shannon SAC (site code 002165) and River Shannon and River Fergus Estuaries SPA (site code 004077).**
- **Uncertainty that the activity, individually or in combination with other plans or projects (not least the EPA-licensed facilities in close proximity to the site as listed below), will not have a significant effect on any European site.**
 - **Irish Cement Limited (Licence Reg. No. P0029-03)**
 - **James McMahon Limited (Licence Reg. No. P0329-01)**
 - **Atlas Aluminium Limited (Licence Reg. No. P0436-01)**
 - **Limerick City & County Council and Clare County Council (Licence Reg. No. D0013-01).**

The Agency has completed the Appropriate Assessment and has determined based on best scientific knowledge in the field and in accordance with the European Communities (Birds and Natural Habitats) Regulations 2011 and 2013, pursuant to Article 6(3) of the Habitats Directive, that the activity, individually or in combination with other plans or projects, will not adversely affect the integrity of a European Site(s) in particular **Lower River Shannon SAC (site code 002165) and River Shannon and River Fergus Estuaries SPA (site code 004077)**, having regard to their conservation objectives and will not affect the preservation of these sites at favourable conservation status if carried out in accordance with this Licence and the conditions attached hereto for the following reasons:

- **There will be no process emissions to surface water courses. The only discharge to surface water will be clean storm water run-off. Condition 3.7 requires that storm water must pass silt traps and oil separators prior to discharge. Condition 3.19 requires that, within six months of the date of grant of this licence, all wastewater and dirty stormwater arising within the installation shall be discharged to sewer or stored pending transport off-site.**
- **The proposed increase in the waste throughput will not result in any additional emissions from the installation.**
- **The licence specifies number of measures to limit the installation's impact on environment, including the following:**
 - **Schedule D requires amendment works on the existing drainage network.**
 - **Condition 3.15.3 requires the repair of cracks and filling of expansion gaps in the concrete surface of the yard.**
 - **Condition 3.28 specifies measures for the control of dust.**
 - **Condition 6.20 requires inspection of the installation and its immediate surrounds for various nuisances, including litter and vermin.**

In light of the foregoing reasons, the Agency is satisfied that no reasonable scientific doubt remains as to the absence of adverse effects on the integrity of the **Lower River Shannon SAC (site code 002165) and River Shannon and River Fergus Estuaries SPA (site code 004077)**.

Part I Schedule of Activities Licensed

In pursuance of the powers conferred on it by the Environmental Protection Agency Acts 1992 as amended, the Agency proposes to determine the review of the existing licence (Reg. No. W0082-02) granted to:

Starrus Eco Holdings Limited, Fassaroe, Bray, County Wicklow and CRO Number 527552

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

- 11.4(b)(ii) Recovery, or a mix of recovery and disposal, of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities, (other than activities to which the Urban Waste Water Treatment Regulations 2001 (S.I. No. 254 of 2001) apply):**
 - (ii) pre-treatment of waste for incineration or co-incineration;**

and

- 11.1 The recovery or disposal of waste in a facility, within the meaning of the Act of 1996, which facility is connected or associated with another activity specified in this Schedule in respect of which a licence or revised licence under Part IV is in force or in respect of which a licence under the said Part is or will be required.**

at **Ballykeefe, Dock Road, Limerick** subject to the following twelve 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 the 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 1.5 of this licence and subject to the conditions of this licence.
- 1.2 Activities at this installation shall be limited as 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 **areas** of land outlined in colour red on **Drawing No. 3 dated 2 September 2014** of the application. Any reference in this licence to "installation" shall mean the **areas** thus outlined in colour red.
- 1.4 The licensed activities shall be carried on only within **the leased area of land as outlined on Drawing No. 3 dated 2 September 2014 of the application. Within three months of the date of grant of this licence, the leased area of land shall be visibly delineated at the installation by means of a fence, barrier, painted line or other method agreeable to the Agency.**
- 1.5 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 agreement of, the Agency.
- 1.6 The installation shall be controlled, operated and maintained, and emissions shall take place as set out in the licence. All programmes required to be carried out under the terms of this licence become part of this licence.
- 1.7 This licence is for the purpose of IE licensing under the EPA Acts 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.
- 1.8 This licence has been granted in substitution for the licence granted to the licensee on 6 November 2003 (Register No. W0082-02). The previous licence (Reg. No. W0082-02) is superseded by this revised licence.
- 1.9 Waste Acceptance Hours and Hours of Operation
- 1.9.1 **With the exception of the Civic Amenity area**, the installation may operate and accept waste on a twenty-four hour basis, seven days per week.
- 1.9.2 Waste shall be accepted at the Civic Amenity Area only between the hours of 9 am and 6 pm, seven days a week, unless otherwise agreed in advance with the Agency.

Reason: <i>To clarify the scope of this licence.</i>

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) which shall incorporate energy efficiency management. The EMS shall be reviewed 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 An environmental policy defined for the installation.
- 2.2.2.2 Management and Reporting Structure.
- 2.2.2.3 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, including an evaluation of practicable options for energy and resource efficiency, the use of cleaner technology, and the prevention, reduction and minimisation of waste for disposal. The schedule shall include time frames for the achievement of set targets and shall address a five year period as a minimum. In relation to waste recovery the schedule shall include an initial waste recovery target of waste throughput, as well as time frames for achieving higher recovery targets. As a minimum this shall include specific objectives for the control and minimisation as well as an annual review of the dust and noise nuisance potential of the site activities. The schedule shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER).

2.2.2.4 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 2.2.2.2. It shall include:

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

The EMP shall be reviewed annually and amendments thereto notified to the Agency as part of the Annual Environmental Report (AER).

A report on the programme, including the success in meeting agreed targets, 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.

2.2.2.5 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.

2.2.2.6 Corrective and Preventative Action

- (i) The licensee shall establish, 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.

2.2.2.7 Internal and External Audits

The licensee shall establish, 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 the licence. Audit reports and records of the resultant corrective and preventative actions shall be maintained as part of the EMS in accordance with condition 2.2.2.5.

2.2.2.8 Awareness and Training

The licensee shall establish, 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. Appropriate records of training shall be maintained.

2.2.2.9 Communications Programme

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.

2.2.2.10 Maintenance Programme

The licensee shall establish, maintain and implement a structured programme for maintenance and service of all plant, equipment and vehicles 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.

2.2.2.11 Efficient Process Control

The licensee shall establish, 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>Reason: <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>

Condition 3. Infrastructure and Operation

- 3.1 The licensee shall establish and maintain, for each component of the installation, all infrastructure referred to in this licence as required by the conditions of this licence.
- 3.2 Installation Notice Board
- 3.2.1 The licensee shall, within one month of the date of grant of this licence, provide 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 1200 mm by 750 mm. The notice board shall be maintained thereafter.
- 3.2.2 The board shall clearly show:
- (i) the name and telephone number of the installation;
 - (ii) the normal hours of opening;
 - (iii) the name of the licence holder;
 - (iv) an emergency out of hours contact telephone number;
 - (v) the licence reference number; and
 - (vi) where environmental information relating to the installation can be obtained.
- 3.2.3 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.
- 3.3 The licensee shall install 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.
- 3.4 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.
- 3.5 Tank, Container and Drum Storage Areas
- 3.5.1 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).
- 3.5.2 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.
- 3.5.3 All drainage from bunded areas shall be treated as contaminated unless it can be demonstrated to be otherwise. 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 6.12.
- 3.5.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 3.5.5 All tanks, containers, drums and pipework shall be labelled to clearly indicate their:
- (i) contents;
 - (ii) capacity; and
 - (iii) flow direction.
- 3.6 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.

3.7 Silt Traps and Oil Separators

The licensee shall install and 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 discharges from yard areas. The separator shall be a Class I full retention separator.

The silt traps and separator shall be in accordance with I.S. EN-858-2: 2003 (separator systems for light liquids).

3.8 Fire-water Retention

3.8.1 The licensee shall carry out a risk assessment to determine if the activity should have a fire-water retention facility. The licensee shall submit the assessment and a report to the Agency on the findings and recommendations of the assessment within six months of the date of grant of this licence.

3.8.2 In the event that a significant risk exists for the release of contaminated fire-water, the licensee shall, based on the findings of the risk assessment, prepare and implement, with the agreement of the Agency, a suitable risk management programme. The risk management programme shall be fully implemented within three months of date of notification by the Agency.

3.8.3 In the event of a fire or a spillage to storm water, the site storm water shall be diverted for collection. The licensee shall examine, as part of the response programme in Condition 3.8.2 above, the provision of automatic diversion of storm water for collection. The licensee shall have regard to any guidelines issued by the Agency with regard to firewater retention.

3.8.4 The licensee shall have regard to the Environmental Protection Agency Draft Guidance Note to Industry on the Requirements for Fire-Water Retention Facilities when implementing Conditions 3.8.1 and 3.8.2 above.

3.9 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).

3.10 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 fugitive emissions.

3.11 The licensee shall, within three months of the date of grant of this licence, **install and 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.

3.12 Natural gas or biodiesel meeting CEN standard EN14214 shall be used in the boilers on site. In the event of an interruption to the supply of natural gas or biodiesel, an alternative fuel such as gas oil may be used with the prior written agreement of the Agency.

3.13 Specified Engineering Works

3.13.1 The licensee shall submit proposals for all Specified Engineering Works, as defined in *Schedule D: Specified Engineering Works*, of this licence, to the Agency for its agreement at least two months in advance of the intended date of commencement of any such works. No such works shall be carried out without the prior agreement of the Agency.

3.13.2 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.

3.13.3 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;
- (iii) Records and results of all tests carried out (including failures);
- (iv) Drawings and sections showing the location of all samples and tests carried out;
- (v) Daily record sheets/diary;
- (vi) Name(s) of contractor(s)/individual(s) responsible for undertaking the specified engineering works;
- (vii) Name(s) of individual(s) responsible for supervision of works and for quality assurance validation of works;
- (viii) Records of any problems and the remedial works carried out to resolve those problems; and
- (ix) Any other information requested in writing by the Agency.

3.14 Installation Security

- 3.14.1 Security and stockproof fencing or walls and gates shall be maintained. The base of the fencing shall be set in the ground. Subject to the implementation of the restoration and aftercare plan and to the agreement of the Agency, the requirement for such site security may be removed.
- 3.14.2 The licensee shall install a CCTV system which records all truck movement into and out of the installation; the CCTV system shall be operated at all times and copies of recordings kept on site and made available to the Agency on request.
- 3.14.3 Gates shall be locked shut when the installation is unsupervised.
- 3.14.4 The licensee shall remedy any defect in the gates, fencing **and walls** 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, fencing and walls shall be undertaken within three working days.
- 3.14.5 The licensee shall, **within three months of the date of grant of this licence**, install and maintain security fencing around the Civic Amenity Area which shall prevent access by the general public to the remaining area of the installation.

3.15 Installation Roads and Site Surfaces

- 3.15.1 Effective site roads shall be provided and maintained to ensure the safe and nuisance-free movement of vehicles within the installation.
- 3.15.2 The licensee shall maintain an impermeable concrete surface in all areas of the installation, including the floor of the Waste Buildings. The surfaces shall be concreted and constructed to British Standard 8110 or an alternative as agreed by the Agency. The licensee shall remedy any defect in concrete surfaces within five working days.
- 3.15.3 The licensee shall, within three months of the date of grant of this licence, repair cracks and fill all expansion gaps with impermeable material.**

3.16 Installation Office

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

- 3.17 Operational Controls
- 3.17.1 The licensee shall provide and use adequate lighting during the operation of the installation in hours of darkness.
- 3.17.2 Fuels and **oils, including waste oils from vehicle/plant servicing**, shall be stored only at appropriately banded locations on the installation.
- 3.17.3 No smoking shall be allowed **within** the installation.
- 3.18 Weighbridge and Wheel Cleaners
- 3.18.1 The licensee shall maintain a weighbridge and **provide and maintain** wheel cleaners at the installation.
- 3.18.2 The wheel cleaners shall be used by all vehicles leaving the facility as required to ensure that no trade effluent/storm water or waste is carried off-site. All water from the wheel cleaning area shall be directed to the trade effluent drainage network.
- 3.18.3 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.
- 3.19 Wastewater Management and Stormwater Drainage
- 3.19.1 **Within six months of the date of grant of this licence, all wastewater and stormwater arising:**
- **within the waste buildings,**
 - **from outdoor waste storage and holding areas other than areas used solely for the storage of baled waste, and**
 - **from staff welfare facilities,**
- shall be discharged to sewer or stored pending transport off-site in fully enclosed road tankers to a wastewater treatment plant.**
- 3.19.2 **Within six months of the date of grant of this licence, only stormwater run-off from roofs and stormwater arising in separately drained areas not used for the storage or holding of waste or any other material that has the potential to contaminate rain water and surface water run-off shall be discharged to the surface water drain at emission point FE-1A.**
- 3.19.3 The licensee shall maintain a wastewater treatment plant at the installation for the treatment of sanitary effluent arising on-site. Any waste water treatment system and percolation area shall satisfy the criteria, as may be relevant, set out in:
- *Code of Practice Wastewater Treatment and Disposal Systems Serving Single Houses (p.e. < 10)*, and
 - Wastewater Treatment Manuals: Treatment Systems for Small Communities, Business, Leisure Centres and Hotels,
- 3.19.4 **Within six months of the date of grant of this licence, the wastewater treatment plant shall be taken out of use and decommissioned.**
- 3.20 Discharge of wastewater to sewer
- 3.20.1 **Prior to commencement of discharge to sewer, the licensee shall provide to Irish Water a map and details of the installation showing the location of the sewer discharge sampling point, flow meter, screen and oil interceptor.**
- 3.20.2 **Prior to commencement of the discharge to sewer, the licensee shall submit for the written agreement of Irish Water details of the methodology to shut off the discharge to the sewer in the event of an emergency or if breaches of the licence conditions are detected.**
- 3.20.3 **Maintenance records of sampling and monitoring equipment, as well as the screen and oil interceptor, associated with the sewer discharge are to be made available to Irish Water if requested by Irish Water.**

- 3.20.4 The licensee shall provide a screen and an oil interceptor before the discharge sampling point.
- 3.20.5 The licensee shall report immediately to Irish Water and the operator of the Bunlicky Wastewater Treatment Plant in the event of any relevant incident or breach of the licence emission limit values set out in *Schedule B.3* of this licence.
- 3.20.6 No substance shall be present in emissions to sewer in such concentrations as would constitute a danger to sewer maintenance personnel working in the sewerage system, or would be damaging to the fabric of the sewer, or would interfere with the biological functioning of the Limerick City & County Council Wastewater Treatment Plant.
- 3.20.7 No substance shall be present in emissions to sewer in such concentrations as would be likely to have adverse effects on the aquatic environment.
- 3.20.8 No constituent of the effluent shall be discharged in such a quantity as would exceed those concentration limits imposed for the specific substance in national or international legislation.
- 3.20.9 The licensee shall at no time discharge or permit to be discharged into the sewer any liquid matter or thing that is or may be liable to set or congeal at average sewer temperature or is capable of giving off any inflammable or explosive gas or any acid, alkali or other substance in sufficient concentration to cause corrosion to sewer pipes, penstock and sewer fittings or the general integrity of the sewer.
- 3.21 Groundwater Management
- Effective groundwater management infrastructure shall be provided and maintained at the installation. As a minimum, the infrastructure shall protect the groundwater resources from contamination by ongoing waste activities and the storage of leachate and contaminated surface water at the installation.
- 3.22 Waste handling, ventilation and processing plant
- 3.22.1 Items of plant deemed critical to the efficient and adequate processing of waste at the installation (including *inter alia* waste-loading vehicles and ejector trailers) shall be provided on the following basis:
- (i) 100% duty capacity;
 - (ii) 20% standby capacity available on a routine basis; and
 - (iii) Provision of contingency arrangements and/or backup and spares in the case of breakdown of critical equipment.
- 3.22.2 Within three months from the date of grant of this licence, 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 installation. These capacities shall be based on the licensed waste intake, as per *Schedule A: Limitations*, of this licence.
- 3.22.3 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.
- 3.23 Waste Transfer Station
- Appropriate infrastructure for the storage and transfer of waste shall be maintained at the installation. This infrastructure shall at a minimum comprise the following:
- (i) A drainage infrastructure that can contain all possible contaminated run-off from the storage areas;
 - (ii) A dedicated area for quarantine of unacceptable wastes.
- 3.24 Construction and Demolition Waste Recovery Area
- 3.24.1 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;
 - (iii) appropriate bunding to provide visual and noise screening.
 - (iv) All stockpiles shall be adequately contained to minimise dust generation; and.
- 3.24.2 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 transport off the installation.
- 3.25 Civic Amenity
 - 3.25.1 The licensee shall maintain the Civic Amenity infrastructure.
 - 3.25.2 The licensee shall provide and maintain appropriate receptacles at the Civic Amenity for the storage of various waste types.
 - 3.25.3 All waste deposited in the Civic Amenity shall be either:
 - (i) into a skip;
 - (ii) into a hopper of the compactor for disposal;
 - (iii) into a receptacle for recovery; or
 - (iv) in the case where inspection is required, into a designated inspection area.
 - 3.25.4 The licensee shall assign and clearly label each receptacle/container/bay at the Civic Amenity to indicate its contents.
 - 3.25.5 At the end of the working day the floor of the Civic Amenity **and any associated equipment** shall be cleared of waste.
 - 3.25.6 No individual waste material deposited at the Civic Amenity shall be stored there for longer than four months.
 - 3.25.7 Casual access by the general public from the Civic Amenity to the remaining areas of the installation is prohibited.
- 3.26 Waste Inspection and Quarantine Areas
 - 3.26.1 A Waste Inspection Area and a Waste Quarantine Area shall be provided and maintained at the installation.
 - 3.26.2 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.
- 3.27 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 eventual decommissioning.
- 3.28 Dust/Odour Control
 - 3.28.1 The licensee shall install and provide adequate measures for the control of odours and dust emissions, including fugitive dust emissions, from the installation.
 - 3.28.2 An odour management system shall be provided at the installation **within six months of the date of grant of this licence**. Installation of an odour-management system shall at a minimum include the following:
 - 3.28.3 Dust curtains (or equivalent approved by the Agency) shall be maintained on the entry/exit points from the waste buildings; all other doors in this building shall be kept closed when not in use.
 - 3.28.4 Unless otherwise agreed by the Agency, 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.

- 3.28.5 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.

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 sewer/waters in this licence shall be interpreted in the following way:
- 4.1.1 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.
- 4.1.2 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.
- 4.1.3 Discrete Sampling
- For parameters other than pH and temperature, no grab sample value shall exceed 1.2 times the emission limit value.
- 4.2 Where the ability to measure a parameter is affected by mixing before emission, then, with agreement from the Agency, the parameter may be assessed before mixing takes place.
- 4.3 Noise
- Noise from the installation shall not give rise to sound pressure levels ($L_{Aeq, 1}$) measured at the boundary of the installation which exceed the limit value(s).
- 4.4 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 the licence.*

Condition 5. Emissions

- 5.1 No specified emission from the installation shall exceed the emission limit values set out in *Schedule B: Emission Limits*, of this licence. There shall be no other emissions of environmental significance.

- 5.2 No emissions, including 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.
- 5.3 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.

- 5.4 No trade effluent, leachate and/or contaminated storm water shall be discharged to surface water courses.
- 5.5 No substance shall be discharged in a manner, or at a concentration which, following initial dilution causes tainting of fish or shellfish.
- 5.6 There shall be no direct emissions to ground or groundwater.
- 5.7 Emissions to Sewer
- 5.8 Storm Water

No storm water exceeding the levels referred to in Condition 5.9 shall be discharged from the installation.

- 5.9 Trigger Levels

Unless otherwise agreed by the Agency in circumstances where it is satisfactorily demonstrated that discharge at a higher level will not cause environmental pollution, the trigger levels for storm water discharge to surface water at FE-1A are:

- (i) Suspended Solids 25 mg/l
- (ii) BOD 2.6 mg/l
- (iii) Total Ammonia (as N) 0.14 mg/l

Reason: *To provide for the protection of the environment by way of control and limitation of emissions and to provide for the requirements of Irish Water in accordance with Section 99E of the EPA Acts 1992 as amended*

Condition 6. Control and Monitoring

- 6.1 The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as set out below and as in accordance with *Schedule C: Control & Monitoring*, of this licence.
- 6.1.1 Analyses shall be undertaken by competent staff in accordance with documented operating procedures.
 - 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 control standards with evaluation of test responses.
 - 6.1.4 Where any analysis is sub-contracted it shall be 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 that 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 agreed 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 agreed by the Agency.
- 6.4 Monitoring and analysis equipment shall be operated and maintained as necessary so that monitoring accurately reflects the emission/discharge (or ambient conditions where that is the monitoring objective).
- 6.5 All treatment/abatement and emission control equipment shall be calibrated and maintained in accordance with the instructions issued by the manufacturer/supplier or installer. Written records of the calibrations and maintenance shall be made and kept by the licensee.
- 6.6 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended with the agreement of the Agency following evaluation of test results.
- 6.7 The licensee shall prepare a programme, to the satisfaction of the Agency, for the identification and reduction of fugitive emissions using an appropriate combination of best available techniques. This programme shall be included in the Environmental Management Programme.
- 6.8 The integrity and water tightness of all underground pipes, tanks, bunding structures and containers and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee within six months of the date of grant of this licence. This testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. This testing shall be carried out in accordance with any guidance published by the Agency. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.
- 6.9 The stormwater drainage system (e.g., gullies, manholes, any visible drainage conduits and such other aspects as may be agreed) shall be visually inspected weekly and desludged as necessary. Bunds, silt traps and oil separators shall be inspected weekly and desludged as necessary. All sludge and drainage from these operations shall be collected for safe disposal. The drainage system, bunds, silt traps and oil interceptors shall be properly maintained at all times. The licensee shall maintain a drainage map on site. The drainage map shall be reviewed annually and updated as necessary.
- 6.10 All wastewater/leachate/contaminated storm water gullies, drainage grids and manhole covers shall be painted with red squares whilst all **clean storm** water discharge gullies, drainage grids and manhole covers shall be painted with blue triangles. These colour codes shall be maintained so as to be visible at all times during installation operation, and any identification designated in this licence (e.g. **FE-1A / SEW-I**) shall be inscribed on these manholes.
- 6.11 Groundwater investigations**
- 6.11.1 The licensee shall, within twelve months of grant of this licence, investigate and prepare a report on the reasons for elevated ammonia levels and intermittent occurrence of hydrocarbons at groundwater monitoring locations GW-M1, GW-M2 and GW-M3.**
 - 6.11.2 Based on the findings of the investigation completed under Condition 6.11.1, the licensee shall prepare and implement a mitigation measures programme to prevent further groundwater pollution.**

- 6.12 Groundwater Monitoring Infrastructure
- 6.12.1 The licensee shall ensure that groundwater monitoring well sampling equipment is available installed on-site and is fit for purpose at all times. The sampling equipment shall be to Agency specifications.
- 6.12.2 All wellheads shall be adequately protected to prevent contamination or physical damage.
- 6.12.3 Groundwater monitoring wells shall be constructed having regard to the guidance given in the Agency's landfill manual "Landfill Monitoring".
- 6.13 Noise
- 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.
- 6.14 Pollutant Release and Transfer Register (PRTR)
- The licensee shall prepare and report a PRTR for the site. The substance and/or wastes to be included in the PRTR shall be as agreed by the Agency each year by reference to EC Regulations No. 166/2006 concerning the establishment of the European Pollutant Release and Transfer Register. The PRTR shall be prepared in accordance with any relevant guidelines issued by the Agency and shall be submitted electronically in specified format and as part of the AER.
- 6.15 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.
- 6.16 The licensee shall permit authorised persons of the Agency and Irish Water, to inspect, examine and test, at all reasonable times, any works and apparatus installed in connection with the process effluent and to take samples of the process effluent.
- 6.17 Litter Control
- 6.17.1 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.
- 6.17.2 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the installation are appropriately covered.
- 6.18 Dust/Odour Control
- 6.18.1 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, such waste shall be removed within 72 hours of its arrival or generation on site.
- 6.18.2 In dry weather, site roads and any other areas used by vehicles shall be sprayed with water as and when required to minimise airborne dust nuisance.
- 6.18.3 The road network in the vicinity of the installation shall be kept free from any debris caused by vehicles entering or leaving the installation. Any such debris or deposited materials shall be removed without delay.
- 6.18.4 The licensee shall undertake, as required by the Agency, an odour assessment which shall include as a minimum the identification and quantification of all significant odour sources and an assessment of the suitability and adequacy of the odour abatement system(s) to deal with these emissions. Any recommendations arising from such an odour assessment shall be implemented.
- 6.19 Operational Controls
- 6.19.1 The floor of the Waste Buildings shall be cleaned on a weekly basis and on a daily basis where putrescible waste is handled. The floor of the storage bays for recovered

wastes shall be washed down and cleaned on each occasion such bays are emptied, or as a minimum on a weekly basis.

6.19.2 All waste handling processing plant shall be cleared of all waste daily and washed down on a weekly basis.

6.19.3 Scavenging shall not be permitted at the installation.

6.19.4 There shall be no unauthorised public access to the installation.

6.20 Nuisance Monitoring

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

6.21 Vermin and Flies

Within **six** months of the date of this licence, the licensee shall **establish**, maintain and implement a proposal for the control and eradication of vermin and fly infestations at the installation. This proposal should 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.

6.22 Monitoring Locations

Within three months of the date of grant of this licence, the licensee shall submit to the Agency an appropriately scaled drawing or drawings showing all the monitoring locations that are stipulated in this licence. The drawing shall include the eight-digit national grid reference of each monitoring point.

6.23 **Soil Monitoring**

The licensee shall carry out soil monitoring at the site of the installation within ten years of the date of grant of this licence and at least once every ten years thereafter. The sampling and monitoring shall be carried out in accordance with any guidance or procedure as may be specified by the Agency.

<p><i>Reason: To provide for the protection of the environment by way of treatment and monitoring of emissions and to provide for the requirements of Irish Water in accordance with Section 99E of the EPA Acts 1992 as amended.</i></p>

Condition 7. Resource Use and Energy Efficiency

- 7.1 The licensee shall carry out an audit of the energy efficiency of the site within one year of the date of grant of this licence. The audit shall be carried out in accordance with the guidance published by the Agency, "Guidance Note on Energy Efficiency Auditing". The energy efficiency audit shall be repeated at intervals as required by the Agency.
- 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. Reductions in water usage shall be incorporated into Schedule of Environmental Objectives and Targets.
- 7.4 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.

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 shall be transported only by an authorised waste contractor. The 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.
- 8.4 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 fugitive emissions**.
- 8.6 Waste shall be stored in designated areas, protected as may be appropriate against spillage and leachate run-off. The waste shall be clearly labelled and appropriately segregated.
- 8.7 No waste classified as green list waste in accordance with the EU Shipment of Waste Regulations (Council Regulation EEC No. 1013/2006, as may be amended) shall be consigned for recovery without the agreement of the Agency.
- 8.8 Waste for disposal/recovery off-site shall be analysed in accordance with *Schedule C: Control & Monitoring*, of this licence.
- 8.9 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.

- 8.10 All waste treatment shall be carried out inside buildings.
- 8.11 Waste Storage
- 8.11.1 Unless otherwise agreed by the Agency, all waste storage **and holding** areas shall be inside buildings.
- 8.11.2 Unless otherwise agreed by the Agency, all outdoor storage **and holding** areas shall be covered within eighteen months of the date of grant of this licence. This condition shall apply to all storage **and holding** areas used for waste and other material that has the potential to contaminate rain water and surface water run-off.
- 8.12 Waste Storage Plan
- 8.12.1 The licensee shall, within three months of date of grant of licence, establish, maintain and implement a Waste Storage Plan for all waste stored and held at the installation.
- 8.12.2 The Waste Storage Plan shall include:
- a limit on the volume of waste to be stored or held in designated storage areas;
 - maximum stockpile sizes in designated storage areas;
 - a limit on the maximum storage or holding period for waste in designated storage areas; and
 - any other requirements arising from recommendations of the Fire Risk Assessment required by Condition 9.5 of this licence.
- 8.12.3 Waste storage and holding practices at the installation shall comply at all times with the Waste Storage Plan.
- 8.12.4 Waste accepted or generated at the installation shall be stored or held only in designated areas that have been identified in the Waste Storage Plan.
- 8.12.5 All designated areas for storage or holding of waste 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.
- 8.13 Wrapping of baled municipal waste
- 8.13.1 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.
- 8.13.2 Each bale shall be labelled with:
- its date of production.
 - its content and EWC code and
 - the name of the facility and its licence register number (W0082-03).
- 8.13.3 The licensee shall maintain and implement operating procedures for the baling and wrapping of waste.

- 8.13.4 The integrity of each wrapped bale shall be inspected 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.
- 8.14 Waste Acceptance and Characterisation Procedures
- 8.14.1 Other than at the civic amenity, waste shall only be accepted at the installation from Local Authority waste collection or transport vehicles or holders of waste permits, unless exempted or excluded, issued under the Waste Management Act 1996 as amended. Copies of these waste collection permits must be maintained at the installation.
- 8.14.2 The licensee shall within three months of the date of grant of this licence develop, maintain and implement detailed written procedures and criteria for:**
- (i) 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.**
- 8.14.3 Waste shall be accepted at the installation only from known **waste producers** or new **waste producers** subject to initial waste profiling and waste characterisation off-site (Civic Amenity sites and WEEE collection centres excepted). 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.
- 8.14.4 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 Waste Buildings. Each load of waste arriving at the Waste Buildings shall be inspected upon tipping within these buildings. Only after such inspections shall the waste be processed for disposal or recovery.
- 8.14.5 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.
- 8.14.6 A record of all inspections of incoming waste loads shall be maintained.
- 8.14.7 No hazardous waste or liquid waste shall be accepted at the installation.
- 8.15 Unless agreed 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.
- 8.16 Standards Regarding the Supply of Refuse Derived Fuel (RDF) or Solid Recovered Fuel (SRF)
- 8.16.1 Refuse derived fuel or solid recovered fuel produced at the installation shall be classified and specified in accordance with *I.S. EN 15359:2011 Solid recovered fuels - Specifications and classes* unless otherwise agreed by the Agency.
- 8.16.2 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 agreed by the Agency, in accordance with *I.S. EN 15359:2011 Solid recovered fuels - Specifications and*

- classes* and shall be agreed between the licensee and the recipient person or organisation.
- 8.16.3 No solid recovered fuel classified as waste shall be supplied for combustion in any facility or installation that has not been granted a licence or permit under the Waste Incineration Directive or Industrial Emissions Directive.
- 8.16.4 The technical specification referred to in Condition 8.16.1 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 or permit as may be applicable at the destination incineration or co-incineration facility.
- 8.16.5 The licensee shall annually, or at a greater frequency if so instructed by the Agency and unless otherwise agreed by the Agency, demonstrate, using a method agreed 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.
- 8.16.6 Bulky metallic and non-metallic parts shall be removed prior to processing waste into RDF/SRF.
- 8.17 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. With the agreement 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.
- 8.18 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.

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, within six months of date of grant of this licence, 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 **maintain** a documented Emergency Response Procedure that addresses any emergency situation which may originate on-site, **including fire**. 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;
 - (vi) notify the Agency and other relevant authorities.
- 9.3.2 The licensee shall provide a proposal to the Agency for its agreement within one month of the incident occurring or as otherwise agreed by the Agency, to:
- (i) identify and put in place measures to avoid reoccurrence of the incident; and
 - (ii) identify and put in place any other appropriate remedial actions.
- 9.3.3 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 Waste Buildings **and/or Civic Amenity**, any waste arriving at or already collected at the installation shall be transferred directly to appropriate landfill sites or any other appropriate facility until such time as the transfer station building is returned to a fully operational status. Such a breakdown event 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.
- 9.4.4 In the event that monitoring of local wells indicates that the installation is having a significant adverse effect on the quantity and/or quality of the water supply this shall be treated as an emergency and the licensee shall provide an alternative supply of water to those affected.
- 9.5 **The licensee shall arrange, within three months of the date of grant of this licence and every three years thereafter, for the completion, by an independent and appropriately qualified consultant, of a fire risk assessment for the facility. The assessment shall examine all relevant factors on site that impinge on fire risk and prevention. The assessment shall have regard to the EPA *Guidance Note: Fire Safety at Non-Hazardous Waste Transfer Stations, 2013*. A report on the fire risk assessment shall be prepared within six months of the date of grant of this licence. Any recommendations in the fire risk assessment shall be implemented by the licensee.**

<i>Reason: To provide for the protection of the environment.</i>
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Condition 10. Decommissioning & Residuals 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.
- 10.2 Decommissioning Management Plan (DMP)
- 10.2.1 The licensee shall prepare, to the satisfaction of the Agency, a fully detailed and costed plan for the decommissioning or closure of the site or part thereof. This plan shall be submitted to the Agency within **four** months of the date of grant of the licence.
- 10.2.2 The plan shall be reviewed annually and proposed amendments thereto notified to the Agency for agreement as part of the AER. No amendments may be implemented without the agreement of the Agency.
- 10.2.3 The licensee shall have regard to the Environmental Protection Agency's Guidance on Assessing and Costing Environmental Liabilities (2014) and, as appropriate, Guidance on Environmental Liability Risk Assessment, Residuals Management Plans, and Financial Provision (2006) and the baseline report, when implementing Condition 10.2.1 above.
- 10.3 The Decommissioning Management Plan shall include, as a minimum, the following:
- (i) a scope statement for the plan;
 - (ii) the criteria that define the successful decommissioning 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 decommissioning plan; and
 - (v) details of the costings for the plan and the financial provisions to underwrite those costs.
- 10.4 A final validation report to include a certificate of completion for the Decommissioning Management Plan, for all or part of the site as necessary, shall be submitted to the Agency within three months of execution of the plan. The licensee shall carry out such tests, investigations or submit certification, as requested by the Agency, to confirm that there is no continuing risk to the environment.

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 notify the Agency, in a format as may be specified by the Agency, one month in advance of the intended date of commencement of the **production of solid recovered fuel**.
- 11.2 The licensee shall notify the Agency by both telephone and either email or webform, to the Agency's headquarters in Wexford, or to such other Agency office as may be specified by the Agency, as soon as practicable after the occurrence of any of the following:
- (i) an incident or accident that significantly affects the environment;
 - (ii) any release of environmental significance to atmosphere from any potential emissions point including bypasses;
 - (iii) any breach of one or more of the conditions attached to this licence;
 - (iv) any malfunction or breakdown of key control equipment or monitoring equipment set out in *Schedule C: Control & Monitoring*, of this licence which is likely to lead to loss of control of the abatement system; and
 - (v) any incident with the potential for environmental contamination of surface water or groundwater, or posing an environment threat to air or land, or requiring an emergency response by the Local Authority.
- 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.
- 11.3 In the event of any incident which relates to discharges to sewer having taken place, the licensee shall notify the Local Authority and Irish Water as soon as practicable after such an incident.
- 11.4 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 in the case of discharges to receiving waters.
 - (ii) Irish Water 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.
- 11.5 The licensee shall make a record of any notification made under Condition 11.2. 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, measures to restore compliance. The licensee shall, as soon as practicable following notification, submit to the Agency the record.
- 11.6 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 and actions taken on foot of the complaint and the results of such actions.
- 11.7 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.
- 11.8 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, **including all associated procedures, reports, records and other documents;**
 - (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;
- (viii) any elements of the licence application or Environmental Impact Statement (EIS) documentation referenced in this licence;
- (ix) corrective and preventive actions undertaken; and,**
- (x) all records of audits.**

This documentation shall be available to the Agency for inspection at all reasonable times.

11.9 The licensee shall submit to the Agency, by the 31st March of each year, an AER covering the previous calendar year. This report, which shall be to the satisfaction of the Agency, shall include as a minimum the information specified in *Schedule E: Annual Environmental Report*, of this licence and shall be prepared in accordance with any relevant guidelines issued by the Agency.

11.10 Waste Recovery Reports

The licensee shall as part of the Annual Environmental Report for the site submit a report on the contribution by this installation to the achievement of the waste recovery objectives stated in Condition 2.2.2.3 and as otherwise may be stated in National and European Union waste policies and shall, as a minimum, include the following:

- (i) the recovery of metals;
- (ii) the recovery of C & D waste derived waste materials;
- (iii) the recovery/treatment of biowaste (including contribution of installation to the pre-treatment targets in the EU Landfill Directive); and
- (iv) the separation and recovery of other recyclable materials.

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 EWC 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 & Monitoring*, of this licence; and

- (ix) the tonnage and EWC Code for the waste materials recovered/disposed on-site.
- 11.12 The licensee shall maintain a **computer based** record for each load of waste arriving at and departing from the installation. The licensee shall record the following:
- (i) the date;
 - (ii) the name of the carrier (including if appropriate, the waste collection permit details);
 - (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 the waste licence or waste permit register number;
 - (vii) a description of the waste including the associated EWC codes;
 - (viii) the quantity of the waste, recorded in tonnes;
 - (ix) details of the treatment(s) to which the waste has been subjected;**
 - (x) whether the waste is for disposal or recovery and if recovery for what purpose;**
 - (xi) the name of the person checking the load; and 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 the waste licence and waste permit register number of these facilities; and
 - (xii) where applicable a consignment note number (including transfrontier shipment notification and movement/tracking form numbers, as appropriate).
- 11.13 A record shall be kept of each consignment of trade effluent, leachate and/or contaminated storm water removed from the installation. The record shall include the following:
- (i) the name of the carrier;
 - (ii) the date and time of removal of trade effluent, leachate and/or contaminated storm water from the installation;
 - (iii) the volume of trade effluent, leachate and/or contaminated storm water, in cubic metres, removed from the installation on each occasion;
 - (iv) the name and address of the Wastewater Treatment Plant to which the trade effluent, leachate and/or contaminated storm water was transported; and
 - (v) any incidents or spillages of trade effluent, leachate and/or contaminated storm water during its removal or transportation.
- 11.14 The licensee shall submit reports as required by the conditions of this licence to the Agency's Headquarters in Wexford, or to such other Agency office as may be specified by the Agency.
- 11.15 All reports shall be certified accurate and representative by the installation manager or a nominated, suitably qualified and experienced deputy.
- 11.16 A record shall be kept at the installation of the programme for the control and eradication of vermin and fly infestations at the installation. A report on the programme shall be prepared and submitted to the Agency as part of the AER.

<i>Reason: To provide for the collection and reporting of adequate information on the activity.</i>

Condition 12. Financial Charges and Provisions

12.1 Agency Charges

- 12.1.1 The licensee shall pay to the Agency an annual contribution of **€14,998**, 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 Acts 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 31st day of December, and shall be paid to the Agency within one month from the date of grant of the 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 Acts 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 Irish Water Charges

The licensee shall pay to Irish Water such sum as may be determined from time to time, having regard to the variations in the cost of providing drainage and the variation in effluent reception and treatment costs. Payment to be made on demand.

12.3 Environmental Liabilities

- 12.3.1 The licensee shall as part of the AER, provide an annual statement as to the measures taken or adopted at the site in relation to the prevention of environmental damage, and the financial provisions in place in relation to the underwriting of costs for remedial actions following anticipated events (including closure) or accidents/incidents, as may be associated with the carrying on of the activity.
- 12.3.2 The licensee shall arrange for the completion, by an independent and appropriately qualified consultant, of a comprehensive and fully costed Environmental Liabilities Risk Assessment (ELRA) which addresses the liabilities from past and present activities. The assessment shall include those liabilities and costs identified in Condition 10 for execution of the DMP. A report on this assessment shall be submitted to the Agency for agreement within **four** months of date of grant of this licence. The ELRA shall be reviewed as necessary to reflect any significant change on site, and in any case every three years following initial agreement. Review results are to be notified as part of the AER.
- 12.3.3 The licensee shall, to the satisfaction of the Agency **and within six months of the date of grant of this licence**, make financial provision to cover any liabilities associated with the operation (including closure). The amount of indemnity held shall be reviewed and revised as necessary, but at least annually. Proof of renewal or revision of such financial indemnity shall be included in the annual 'Statement of Measures' report identified in Condition 12.3.1.
- 12.3.4 The licensee shall revise the cost of closure annually and any adjustments shall be reflected in the financial provision made under Condition 12.3.3.
- 12.3.5 The licensee shall have regard to the Environmental Protection Agency Guidance on Environmental Liability Risk Assessment, Residuals Management Plans and Financial Provision when implementing Conditions 12.3.2 and 12.3.3 above.

Reason: *To provide for adequate financing for monitoring and financial provisions for measures to protect the environment and to provide for the requirements of Irish Water in accordance with Section 99E of the EPA Acts, 1992 as amended.*

SCHEDULE A: Limitations

A.1 Waste Processes

The following waste related processes are authorised:

- Collection of waste at the Civic Amenity site.
- Recovery of waste.
- **Compacting**, baling and wrapping of waste.
- Storage of waste.

No additions to these processes are permitted unless agreed in advance with the Agency.

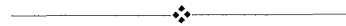


A.2 Waste Acceptance

Table A.1 Waste Categories and Quantities

NON-HAZARDOUS WASTE TYPE ^{Note 1}	MAXIMUM (TONNES PER ANNUM)
<ul style="list-style-type: none"> - Municipal waste including biodegradable kitchen and canteen waste - Packaging waste - Commercial waste - Industrial waste - Construction and demolition waste - Waste derived from the treatment of waste - Street sweepings - Metal waste 	130.000

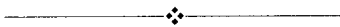
Note 1: Any proposals to accept other compatible non-hazardous waste types must be agreed in advance by the Agency and the total amount of waste must be within that specified.



SCHEDULE B: Emission Limits

B.1 Emissions to Air

There shall be no emissions to air of environmental significance.



B.2 Emissions to Water

There shall be no emissions to water of environmental significance.



B.3 Emissions to Sewer

Emission Point Reference No: SEW-1

Location: To be notified to the Agency once agreed with Irish Water

Volume to be emitted: Maximum in any one day: 60 m³

Parameter	Emission Limit Value
pH	6 - 9
	mg/l
BOD	2000
COD	4000
Suspended Solids	2000
Sulphate	500
Total Nitrogen	100
Ammoniacal Nitrogen	50
Total Phosphorus	20
Orthophosphate	10
Oil, Fat and Grease	100



B.4 Noise Emissions

Daytime dB L _{A,r,T} (30 minutes)	Evening time dB L _{A,r,T} (30 minutes)	Night-time dB L _{Aeq,T} (15-30 minutes)
55	50	45 ^{Note 1}

Note 1: 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

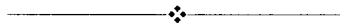
Monitoring locations:

DM-1, DM-2, DM-3 (as per Drawing Number 01 Rev B dated 13 July 2014) and Civic Amenity site ^{Note 1}

Level (mg/m ² /day) ^{Note 2}
350

Note 1: Grid reference of the monitoring location shall be submitted to the Agency within six months of grant of this licence.

Note 2: 30 day composite sample with the results expressed as mg/m² /day.



SCHEDULE C: Control & Monitoring

C.1.1 Control of Storm Water Discharges

Discharge Control Location: FE-1A (as per Drawing Number 01 Rev B dated 13 July 2014)

Description of Treatment: Oil interceptor/Silt trap

Control Parameter	Monitoring	Key Equipment ^{Note 1}
Oil removal	Mineral oil content in water at discharge point	Class I Full Retention Oil Interceptor
Suspended solids		Silt traps

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



C.1.2 Monitoring of Storm Water Discharges

Discharge Point Reference No: FE-1A

Parameter	Monitoring Frequency	Analysis Method/Technique
Visual Inspection	Daily	Sample and examine for colour and odour.
pH	Weekly	Standard method
COD	Weekly	Standard method
Biochemical Oxygen Demand	Weekly	Standard method
Total Ammonia	Weekly	Standard method
Total Nitrogen	Weekly	Standard method
Total Organic Carbon	Weekly	Standard method
Conductivity	Weekly	Standard method
Oils, fats & greases	Monthly	Standard Method
Suspended Solids	Monthly	Standard Method
Mineral Oils	Monthly	Standard Method
Arsenic	Monthly	Standard Method
Cadmium	Monthly	Standard Method
Chromium	Monthly	Standard Method
Copper	Monthly	Standard Method
Mercury	Monthly	Standard Method
Nickel	Monthly	Standard Method
Lead	Monthly	Standard Method
Zinc	Monthly	Standard Method
Toxicity ^{Note 1}	As may be required	To be agreed by the Agency

Note 1: The number of toxic units (Tu) = 100 x hour EC_{LC50} in percentage vol-vol so that higher Tu values reflect greater levels of toxicity. For test regimes where species death is not easily detected, immobilisation is considered equivalent to death.



C.2 Monitoring of Emissions to Sewer

Emission Point Reference No: SEW-1

Parameter	Monitoring Frequency	Analysis Method /Technique
Volume	Daily ^{Note 1}	On-line flow meter with recorder
pH	Continuous	On-line pH electrode/meter and recorder
Conductivity	Continuous	On-line meter and recorder
Chemical Oxygen Demand	Monthly	Standard Method
Biochemical Oxygen Demand	Monthly	Standard Method
Suspended Solids	Monthly	Standard Method
Sulphate	Quarterly	Standard Method
Total Nitrogen	Quarterly	Standard Method
Ammoniacal Nitrogen	Quarterly	Standard Method
Total Phosphorus	Quarterly	Standard Method
Orthophosphate	Quarterly	Standard Method
Oil, Fats and Grease	Quarterly	Standard Method
Petrol Range Organics	Bi-annually	Standard Method
Diesel Range Organics	Bi-annually	Standard Method
Mineral Oils	Bi-annually	Standard Method
Chromium	Bi-annually	Standard Method
Cadmium	Bi-annually	Standard Method
Arsenic	Bi-annually	Standard Method
Mercury	Bi-annually	Standard Method
Lead	Bi-annually	Standard Method
Nickel	Bi-annually	Standard Method
Zinc	Bi-annually	Standard Method
Selenium	Bi-annually	Standard Method
Copper	Bi-annually	Standard Method

Note 1: The licensee shall provide a 24 hour proportional flow sampler at the discharge sampling point.



C.3 Noise Monitoring

Location: Ni-1, Ni-2 and Ni-3 (as per Drawing Number 01 Rev B dated 13 July 2014 or as may be otherwise agreed/directed under Condition 6.6)

At the Civic Amenity ^{Note 1}

Period	Minimum Survey Duration ^{Note 2}
Daytime (07:00 to 19:00 hrs)	A minimum of 3 sampling periods at each noise monitoring location
Evening-time (19:00 to 23:00 hrs)	A minimum of 1 sampling period at each noise monitoring location.
Night-time ^{Note 3} (23:00 to 07:00 hrs)	A minimum of 2 sampling periods at each noise monitoring location.

Note 1: Grid reference of the monitoring location at the Civic Amenity shall be submitted to the Agency within six months of grant of this licence.

Note 2: Sampling period T will be in accordance *Schedule B.4* of this licence. This applies to day, evening and night time periods.

Note 3: Night-time measurements shall be made between 2300hrs and 0400hrs, Sunday to Thursday, with 2300hrs being the preferred start time.



C.4 Ambient Monitoring

C.4.1 Dust Deposition

Location: DM-1, DM-2 and DM-3 (as per Drawing Number 01 Rev B dated 13 July 2014) and at Civic Amenity ^{Note 1}

Parameter	Monitoring Frequency	Analysis Method/Technique
Dust deposition	Quarterly	Bergerhoff

Note 1: Grid reference of the monitoring location shall be submitted to the Agency within three months of grant of this licence.



C.4.2 Receiving Water Monitoring

Locations: WS-9 and WS-10 (upstream and downstream of FE-1A as per Drawing Number 01 Rev B dated 13 July 2014)

Parameter	Monitoring Frequency	Analysis Method/Technique
Visual Inspection	Weekly	Sample and examine for colour and odour.
pH	Monthly	Standard method
COD	Monthly	Standard method
Biochemical Oxygen Demand	Monthly	Standard method
Total Ammonia	Monthly	Standard method
Total Nitrogen	Monthly	Standard method
Total Organic Carbon	Monthly	Standard method
Conductivity	Monthly	Standard method
Oils, fats & greases	Monthly	Standard Method
Suspended Solids	Monthly	Standard Method
Mineral Oils	Monthly	Standard Method
Toxicity ^{Note 1}	As may be required	To be agreed by the Agency

Note 1: The number of toxic units (Tu) = 100 x hour EC/LC₅₀ in percentage vol/vol so that higher Tu values reflect greater levels of toxicity. For test regimes where species death is not easily detected, immobilisation is considered equivalent to death.



C.4.3 Groundwater Monitoring

Location: GW-M1, GW-M2 and GW-M3 (as per Drawing Number 01 Rev B dated 13 July 2014)

Parameter	Monitoring Frequency	Analysis Method/Techniques
PH	Biannually	pH electrode meter
COD	Biannually	Standard Method
BOD	Biannually	Standard Method
Suspended Solids	Biannually	Standard Method
Nitrate	Biannually	Standard Method
Total Ammonia	Biannually	Standard Method
Total Nitrogen	Biannually	Standard Method
Mineral oils	Biannually	Standard Method
Sulphate	Biannually	Standard Method
Total Phosphorous	Biannually	Standard Method
Nitrate	Biannually	Standard Method
Nitrite	Biannually	Standard Method
Fat, oil and grease	Biannually	Standard Method
Diesel Range Hydrocarbons	Biannually	Standard Method
Aliphatic Hydrocarbons	Biannually	Standard Method
Undecane	Biannually	Standard Method
Conductivity	Biannually	Standard Method
Chloride	Biannually	Standard Method
Fluoride	Biannually	Standard Method
Hazardous Compounds ^{Note1}	Biannually	Standard Method

Note 1: The relevant hazardous substances for monitoring in groundwater shall be identified by the licensee by undertaking a risk based assessment. The Licensee shall have regard to the 'Classification of Hazardous and Non-hazardous Substances in Groundwater' issued by the Agency. Monitoring for the identified hazardous substances shall be carried out at least annually, unless a case for less frequent monitoring is agreed by the Agency



SCHEDULE D: Specified Engineering Works

Specified Engineering Works

Installation of negative air pressure and air abatement system.

Installation of connection to sewer.

Amendment works on the existing drainage network.

Repair of cracks and filling expansion gaps in the hardstanding surfaces of the yard and waste buildings.

Repositioning/installation of fencing on the site boundary.

Any other works notified in writing by the Agency.

SCHEDULE E: Annual Environmental Report

Annual Environmental Report Content ^{Note 1}
<p>Emissions from the installation.</p> <p>Waste management record, including summary of rejected waste loads.</p> <p>Resource and energy consumption summary.</p> <p>Complaints summary.</p> <p>Schedule of Environmental Objectives and Targets for the forthcoming year.</p> <p>Environmental management programme – report for previous year.</p> <p>Environmental management programme – proposal for current year.</p> <p>Pollutant Release and Transfer Register – report for previous year.</p> <p>Pollutant Release and transfer Register – proposal for current year.</p> <p>Noise monitoring report summary.</p> <p>Ambient monitoring summary.</p> <p>Tank, drum, pipeline and bund testing and inspection report.</p> <p>Reported incidents summary.</p> <p>Energy efficiency audit report summary.</p> <p>Summary of results and interpretations of environmental monitoring, including a location plan of all monitoring locations.</p> <p>Report on waste targets.</p> <p>Waste Recovery Report.</p> <p>Report on the progress towards achievement of the Environmental Objectives and Targets contained in previous year's report.</p> <p>Amount of recyclable waste recovered at and leaving the installation and RDF/SRF produced per annum.</p> <p>Report on the assessment of the efficiency of use of raw materials in processes and the reduction in waste generated.</p> <p>Report on progress made and proposals being developed to minimise water demand and the volume of trade effluent discharges.</p> <p>Development Infrastructural works summary (completed in previous year or prepared for current year).</p> <p>Reports on financial provision made under this licence, management and staffing structure of the installation, and a programme for public information.</p> <p>Review of decommissioning management plan.</p> <p>Statement of measures in relation to prevention of environmental damage and remedial actions (Environmental Liabilities).</p> <p>Environmental Liabilities Risk Assessment Review (every three years or more frequently as dictated by relevant on-site change including financial provisions).</p> <p>Waste activities carried out at the installation.</p> <p>Quantity and composition of waste recovered, received and disposed of during the reporting period and each previous year (relevant EWC codes to be used).</p> <p>Full title and a written summary of any procedures developed by the licensee in the year which relates to the installation operation.</p> <p>Review of nuisance controls.</p> <p>Volume of trade effluent/leachate and/or contaminated storm water produced and volume transported off-site.</p> <p>Any other items specified by the Agency.</p>

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

Signed on behalf of the said Agency _____
On the xx day of xxxxx, 200X xxxxxxxxxxxx **Authorised Person**



Licence Enforcement

Financial charges for the selected organisation for the selected charge year

Report Parameters

Facility Name = Starrus Eco Holdings Limited(W0082-02)
Reg No = W0082-02
Report Year = 2014
User Name: OGLESBYG
Date Printed: 17/12/2014 12:01:03

Name & Reg No: Starrus Eco Holdings Limited : W0082-02
Risk Category: W-B2
OEE Inspector: Cork Team A
Regional Team: Cork
Charges Approved: False

Environmental Protection Agency
Johnstown Castle Estate, Wexford, Ireland.
Telephone: 053 60600 Fax: 053 60699

Reporting & Monitoring Returns

	Reports	Days	Daily Rate	Total
Monitoring Returns	1	12.38	546.00	6,759.48
Annual	0	0.00	546.00	0.00
Once Off Proposals	0	0.00	546.00	0.00
		Total Days		Total Cost
		12.38		6,759.48

Audits

Year of last audit:

	Days	Daily Rate	Total
Lead Auditor	0	546.00	0.00
Auditor	0	546.00	0.00
	Total Days		Total Cost
	0		0.00

Inspector's Visits

	No. Of Visits	Insp. Visit Days	Daily Rate	Total
	0	2.32	546.00	1,266.72
		Total Days		Total Cost
		2.32		1,266.72

Sampling Costs

Air Mobile Unit				
	Days	Visits	Daily Rate	Total
Person Days	0.00	0	546.00	0.00
Reg. Lab Unit				
Days	0.76	1	546.00	414.96
Waste Mobile Unit				
Days	0.00	0	546.00	0.00
	Total Days			Total Cost
	0.76			414.96

Analysis Costs**Water**

	No. Samples Per Visit	Frequency	Unit Cost	Total
Complex	0	1.00	498.00	2,490.00
Routine	0	1.00	300.00	0.00
Basic	0	1.00	82.00	82.00

Air

Contract - Special	0	0.00	100.00	0.00
Contract - Priority	0	0.00	5,437.00	0.00
Contract - Routine	0	0.00	3,000.00	0.00
In house	0	0.00	100.00	0.00

Noise

	0	0.00	546.00	0.00
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Soil

	0	0.00	546.00	0.00
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Biological

	0	0.00	546.00	0.00
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Animal Health Sentinel Scheme

				0.00
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Total Samples Per Visit**0****Total Cost****2,572.00****Retrospective Charges**

No. Of Additional Days Spent	Daily Rate	Total
0	546.00	0.00

Standing Charge

	Total
	546.00

Enforcement Support Services Charge

No. Of Days	Daily Rate	Total
6.30	546.00	3,439.80

Grand Total**€14,998.96****End of Report**

