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Ireland

WASTE LICENCE

Recommended Decision

Licence Register Number:	W0140-03
Applicant/Licensee:	Nurendale Limited. t/a Panda Waste Services
Location of Facility:	Rathdrinagh, Beauparc, Navan, Co. Meath.

INTRODUCTION

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

This licence is for the operation of a purpose built waste transfer station and recycling facility at Rathdrinagh, Beuparc, Navan, County Meath. Nurendale Limited t/a Panda Waste Services will be licensed to accept non-hazardous construction, demolition, commercial, industrial and household wastes, including Waste Electrical & Electronic Equipment (WEEE), at this facility. The licensed site also includes a Civic Amenity facility. The licensee is currently authorised to accept 165,000tpa and wishes to expand operations to process up to 250,000tpa.

The wastes will be processed within waste transfer and process buildings with the recyclable materials (e.g. soil, stone, glass, metal, cardboard, wood, green waste, plastic, paper) removed and the residual waste sent to landfill. Recycling/recovery rates are expected to reach 70% of waste turnover. The expanded operation is to include a new waste recovery building dedicated to the recovery of dry recyclable Commercial & Industrial (C & I) waste, and the future installation of a constructed wetland waste water treatment system.

The licensee must manage and operate the facility to ensure that the activities do not cause environmental pollution. The licensee is required to carry out regular environmental monitoring and submit all monitoring results, and a wide range of reports on the operation and management of the facility to the Agency.

The licence sets out in detail the conditions under which Panda Waste Services will operate and manage this facility.

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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 to 2007 / Waste Management Acts 1996 to 2008, unless otherwise defined in this section.

Aerosol	A suspension of solid or liquid particles in a gaseous medium.
Adequate lighting	20 lux measured at ground level.
AER	Annual Environmental Report.
Agreement	Agreement in writing.
Annually	At approximately twelve-monthly intervals.
Attachment	Any reference to Attachments in this licence refers to attachments submitted as part of this licence application.
Application	The application by the licensee for this licence.
Appropriate facility	A waste management facility, duly authorised under relevant law and technically suitable.
BAT	Best Available Techniques.
Biannually	All or part of a period of six consecutive months.
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.
BOD	5 day Biochemical Oxygen Demand.
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 to 2008.
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.
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	0800 hrs to 2200 hrs.
dB(A)	Decibels (A weighted).
Documentation	Any report, record, result, 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.
EMP	Environmental Management Programme.
Emission limits	Those limits, including concentration limits and deposition rates, established in <i>Schedule B: Emission Limits</i> of this licence.
Environmental damage	Has the meaning given it 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.
Facility	Any site or premises used for the purposes of the recovery or disposal of waste.
Fortnightly	A minimum of 24 times per year, at approximately two week intervals.
GC/MS	Gas chromatography/mass spectroscopy.
Green waste	Waste wood (excluding timber), plant matter such as grass cuttings, and other vegetation.
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 facility is authorised to be operational.
Hours of waste acceptance	The hours during which the facility is authorised to accept waste.
ICP	Inductively coupled plasma spectroscopy.
Incident	The following shall constitute an incident for the purposes of this licence: <ul style="list-style-type: none">(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 waste	As defined in Section 5(1) of the Waste Management Acts 1996 to 2008.
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.
K	Kelvin.
kPa	Kilopascals.
L_{eq}	Equivalent continuous sound level.
Licence	A Waste Licence issued in accordance with the Waste Management Acts 1996 to 2008.
Licensee	Panda Waste Services, Rathdrinagh, Beauparc, Navan, Co. Meath
Liquid waste	Any waste in liquid form and containing less than 2% dry matter.
List I	As listed in the EC Directives 76/464/EEC and 80/68/EEC and amendments.
List II	As listed in the EC Directives 76/464/EEC and 80/68/EEC and amendments.
Local Authority	Meath 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.
Mass flow limit	An emission limit value expressed as the maximum mass of a substance that can be emitted per unit time.
Mass flow threshold	A mass flow rate above which a concentration limit applies.
Mobile plant	Self-propelled machinery used for the emplacement of wastes or for the construction of specified engineering works.
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 Acts 1996 to 2008.
Night-time	2200 hrs to 0800 hrs.
Noise-sensitive location (NSL)	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility 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 systems for light liquids, (e.g. oil and petrol) - Part 2: Selection of nominal 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, that may be recycled.
Regional Fisheries Board	Eastern Regional Fisheries Board.
Water Services Authority	Meath County Council.
Sanitary effluent	Wastewater from facility toilet, washroom and canteen facilities
Sample(s)	Unless the context of this licence indicates to the contrary, the term samples shall include measurements taken by electronic instruments.
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. And 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 (eg, 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.

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 to 2008.
The Agency	Environmental Protection Agency.
TOC	Total organic carbon.
Trade effluent	Trade effluent has the meaning given in the Water Services Act 2007.
Trigger level	A parameter value, the achievement or exceedance of which requires certain actions to be taken by the licensee.
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.
WEEE	As defined in S.I. No. 340 of 2005.
WWTP	Waste water treatment plant.

Decision & Reasons for the 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 40(4) of the Waste Management Acts 1996 to 2008.

In reaching this decision the Environmental Protection Agency has considered the application and supporting documentation received from the applicant, all submissions received from other parties and the report of its inspector.

Part I Schedule of Activities Licensed

In pursuance of the powers conferred on it by the Waste Management Acts 1996 to 2008, the Environmental Protection Agency (the Agency) proposes, under Section 46(8) of the said Act to grant this revised Waste Licence to Panda Waste Services, Rathdrinagh, Beauparc, Navan, Co. Meath to carry on the waste activities listed below at Rathdrinagh, Beauparc, Navan, Co. Meath subject to conditions, with the reasons therefore and the associated schedules attached thereto set out in the licence.

Licensed Waste Disposal Activities, in accordance with the Third Schedule of the Waste Management Acts 1996 to 2008

Class 11.	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
Class 12.	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
Class 13.	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.

Licensed Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Acts 1996 to 2008

Class 2.	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes).
Class 3.	Recycling or reclamation of metals and metal compounds.
Class 4.	Recycling or reclamation of other inorganic materials. (P)
Class 11.	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
Class 13.	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.

Part II Conditions

Condition 1. Scope

- 1.1 The facility shall be controlled, operated, and maintained and emissions shall take place as set out in this licence. All programmes required to be carried out under the terms of this licence, become part of this licence.
- 1.2 Waste activities at this facility shall be restricted to those listed and described in *Part I: Schedule of Activities Licensed*, and shall be as set out in the licence review application or as modified under Condition 1.7 of this licence and subject to the conditions of this licence.
- 1.3 Activities at this facility shall be limited as set out in *Schedule A: Limitations* of this licence. Until such time as all appropriate infrastructure expressly identified in this licence has been installed to the satisfaction of the Agency, annual waste intake shall be limited to 165,000 tonnes per annum. Following agreement with the Agency, the licensee shall be permitted to accept a maximum waste intake of 250,000 tonnes per annum.
- 1.4 With the exception of household hazardous wastes delivered to the Civic Amenity Facility, no hazardous wastes or liquid wastes shall be accepted at the facility.
- 1.5 Waste acceptance hours and hours of operation
- 1.5.1 Waste shall be accepted at the commercial transfer element of the facility only between the hours of 0800 and 1830 Monday to Friday inclusive and 0900 to 1400hrs on Saturdays.
- 1.5.2 Waste can be accepted at the Civic Amenity element of the facility only between the hours of 0800 and 1830 Monday to Friday inclusive and 0900 to 1600hrs on Saturdays.
- 1.5.3 With the exception of the automated composting operations, or as may be necessary in an emergency, the facility shall be operated only during the hours of 0730 and 1900hrs Monday to Friday inclusive and 0830 and 1700hrs on Saturdays.
- 1.5.4 The facility shall not operate or accept/dispatch waste on Sundays or on Public Holidays without the agreement of the Agency.
- 1.6 For the purposes of this licence, the facility authorised by this licence is the area of land outlined in red on Drawing No. V130_A_12 of the application. Any reference in this licence to "facility" shall mean the area thus outlined in red. The licensed activities shall be carried on only within the area outlined.
- 1.7 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.

- 1.8 This licence is for the purposes of waste licensing under the Waste Management Acts 1996 to 2008 only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.9 This licence is being granted in substitution for the waste licence granted to the licensee on 1st April 2005 (Register No: W0140-02). The previous waste licence (Register No: W0140-02) is superseded by this licence.

Reason: To clarify the scope of this licence.

Condition 2. Management of the Facility

2.1 Facility Management

2.1.1 The licensee shall employ a suitably qualified and experienced facility manager who shall be designated as the person in charge. The facility manager or a nominated, suitably qualified and experienced, deputy shall be present on the facility 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. In addition, the facility manager and his/her deputy shall successfully complete the FÁS Waste Management Training Programme or equivalent agreed by the Agency.

2.2 Environmental Management System (EMS)

2.2.1 The licensee shall maintain an Environmental Management System (EMS). The EMS shall be updated on an annual basis.

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

2.2.2.1 Management and Reporting Structure.

2.2.2.2 Schedule of Environmental Objectives and Targets.

The licensee shall maintain 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, cleaner production, and the prevention, reduction and minimisation of waste, and shall include waste reduction targets. The schedule shall include time frames for the achievement of set targets and shall address a five year period as a minimum. As a minimum this Schedule 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).

2.2.2.3 Environmental Management Programme (EMP)

The licensee shall maintain an EMP, including a time schedule, for achieving the Environmental Objectives and Targets prepared

under Condition 2.2.2.2. Once agreed the EMP shall be maintained by the licensee. It shall include:

- (i) designation of responsibility for targets;
- (ii) the means by which they may be achieved;
- (iii) the time within which they may be achieved.

The EMP shall be reviewed annually and amendments thereto notified to the Agency for agreement 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.

2.2.2.4 Documentation

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

2.2.2.5 Corrective Action

The licensee shall establish procedures to ensure that corrective action is taken should the specified requirements of this licence not be fulfilled. The responsibility and authority for initiating further investigation and corrective action in the event of a reported non-conformity with this licence shall be defined.

2.2.2.6 Awareness and Training

The licensee shall maintain 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.

2.2.2.7 Communications Programme

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

2.2.2.8 Maintenance Programme

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

2.2.2.9 Efficient Process Control

The licensee shall establish and maintain 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.

Reason: 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.

Condition 3. Infrastructure and Operation

- 3.1 The licensee shall establish all infrastructure referred to in this licence in advance of the commencement of the licensed activities or as required by the conditions of this licence. Infrastructure specified in the application which relates to the environmental performance of the installation and is not specified in the licence, shall be installed in accordance with the schedule submitted in the application.
- 3.2 Facility Notice Board
- 3.2.1 The licensee shall provide and maintain a Facility Notice Board on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the board shall be 1200 mm by 750 mm.
- 3.2.2 The board shall clearly show:
- (i) the name and telephone number of the facility;
 - (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 facility can be obtained.
- 3.2.3 A plan of the facility clearly identifying the location of each storage and treatment area shall be displayed as close as is possible to the entrance to the facility. The plan shall be displayed on a durable material such that it is legible at all times. The plan shall be replaced as material changes to the facility are made.
- 3.3 Specified Engineering works
- 3.3.1 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 prior to the intended date of commencement of any such works. No such works shall be carried out without the prior agreement of the Agency.
- 3.3.2 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.
- 3.3.3 Following the completion of all specified engineering works, the licensee shall complete a construction quality assurance validation. The validation report shall be made available to the Agency on request. The report shall, as appropriate, include the following information:-
- (i) A description of the works;
 - (ii) As-built drawings of the works; and
 - (iii) Any other information requested in writing by the Agency.

- 3.4 Facility Security
 - 3.4.1 Security and stockproof fencing 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.
 - 3.4.2 The licensee shall maintain a CCTV monitoring system at the facility.
 - 3.4.3 Gates shall be locked shut when the facility is unsupervised.
 - 3.4.4 The licensee shall remedy any defect in the gates and/or fencing as follows:-
 - a) A temporary repair shall be made by the end of the working day; and
 - b) A repair to the standard of the original gates and/or fencing shall be undertaken within three working days.
- 3.5 Facility Roads and Site Surfaces
 - 3.5.1 Effective site roads shall be provided and maintained to ensure the safe and nuisance-free movement of vehicles within the facility.
 - 3.5.2 The licensee shall maintain an impermeable concrete surface in all areas of the facility associated with the movement, processing, storage and handling of waste and emissions. The surfaces shall be concreted and constructed to British Standard 8110 or an alternative as agreed by the Agency.
- 3.6 Facility Office
 - 3.6.1 The licensee shall maintain an office at the facility. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.
 - 3.6.2 The licensee shall maintain a working telephone and a method for electronic transfer of information at the facility.
- 3.7 Waste Inspection and Quarantine Areas
 - 3.7.1 A Waste Inspection Area and a Waste Quarantine Area shall be maintained at the facility.
 - 3.7.2 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.
 - 3.7.3 Drainage from these areas shall be directed to the trade effluent collection & storage system.
- 3.8 Weighbridge and Wheel Cleaner
 - 3.8.1 The licensee shall provide and maintain a weighbridge and wheel cleaner at the facility.
 - 3.8.2 The wheel cleaner shall be used by all vehicles leaving the facility as required to ensure that no wastewater or waste is carried off-site. All water from the wheel cleaning area shall be directed to the vehicle wash water collection & recycling interceptor/sump.
 - 3.8.3 Vehicle wash-water not recycled on site shall be disposed of as trade effluent.
 - 3.8.4 The wheel wash shall be inspected on a daily basis and drained as required.

- 3.9 Waste handling, ventilation and processing plant
- 3.9.1 Items of plant deemed critical to the efficient and adequate processing of waste at the facility (including inter alia waste loading vehicles and ejector trailers) shall be provided on the following basis:-
- a) 100% duty capacity;
 - b) 20% standby capacity available on a routine basis; and
 - c) Provision of contingency arrangements and/or back up and spares in the case of breakdown of critical equipment.
- 3.9.2 The licensee shall maintain on site a record detailing the duty and standby capacity in tonnes per day, of all waste handling and processing equipment to be used at the facility. These capacities shall be based on the licensed waste intake, as per *Schedule A: Limitations*, of this licence.
- 3.9.3 The quantity of waste to be accepted at the facility on a daily basis shall not exceed the duty capacity of the equipment at the facility. Any exceedance of this intake shall be treated as an incident.
- 3.10 Waste Transfer buildings
- The licensee shall provide and maintain the waste transfer buildings. The buildings shall be acoustically screened.
- 3.11 Dust/Odour control
- The licensee shall install and provide adequate measures for the control of odours and dust emissions, including fugitive dust emissions, from the facility. Installation of odour management infrastructure shall at a minimum include the following:
- 3.11.1 Dust curtains (or equivalent approved by the Agency) shall be maintained on the entry /exit points from all waste transfer buildings. All other doors in this building shall be kept closed at all times.
- 3.11.2 Unless otherwise agreed by the Agency, all buildings processing putrescible waste shall be maintained at negative air pressure with ventilation gases being subject to treatment as specified by the Agency.
- 3.11.3 Provision of 100% duty capacity and 20% stand by capacity, back ups and spares must be provided for the air handling, ventilation and abatement plant.
- 3.12 Wastewater Treatment System
- The licensee shall maintain a Wastewater Treatment system at the facility for the treatment of on-site sanitary water arisings only. Any percolation area shall satisfy the criteria set out in the Wastewater Treatment Manual, *Treatment Systems for Single Houses*, published by the Environmental Protection Agency.
- 3.13 All trade effluent shall drain to a bunded storage tank for holding prior to disposal off-site. The tank shall be fitted with high-level liquid alarms and a leak detection system.
- 3.14 Construction and Demolition Waste Recovery Area
- 3.14.1 The licensee shall maintain a construction and demolition waste recovery area. This infrastructure shall at a minimum comprise the following: -
- a) an impermeable concrete slab;
 - b) collection and disposal infrastructure for all run-off;
 - c) appropriate bunding to provide visual and noise screening;
 - d) All stockpiles shall be adequately contained to minimise dust generation.
- 3.14.2 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 facility or transport off the facility.

- 3.15 Compost facility
- 3.15.1 The licensee shall, prior to the acceptance of waste for composting, provide and maintain enclosed biodegradable waste composting units and associated infrastructure;
- 3.15.2 All wastewater from composting operations shall be collected and reused or dispatched off-site for approved treatment.
- 3.16 Civic Waste Facility
- 3.16.1 The licensee shall provide and maintain appropriate receptacles at the Civic Waste Facility for the storage of various waste types.
- 3.16.2 The facility shall not be used as a transfer station for disposal of waste by commercial waste disposal contractors or local authority waste collection vehicles.
- 3.16.3 Unless otherwise agreed, all waste deposited in the Civic Waste Facility shall be either:-
- a) into a skip;
 - b) into the hopper of the compactor for disposal;
 - c) into a designated receptacle or bay for recovery; or
 - d) in the case where inspection is required, into a designated inspection area.
- 3.16.4 The licensee shall assign and clearly label each container at the Civic Waste Facility to indicate their contents.
- 3.16.5 All putrescible waste accepted at the Civic Waste Facility for disposal off-site shall be removed within 24 hours of its arrival on-site (72 hours on Public Holiday weekends). No individual items of other waste may be stored at the Civic Amenity facility for longer than four months.
- 3.17 Tank, Container and Drum Storage Areas
- 3.17.1 All tank, container and drum storage areas shall be rendered impervious to the materials stored therein. Bunds should be designed having regard to Agency guidelines 'Storage and Transfer of Materials for Scheduled Activities' (2004).
- 3.17.2 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 which could be stored within the bunded area.
- 3.17.3 All drainage from bunded areas shall be treated as hazardous waste unless it can be demonstrated to be otherwise. All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.17.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 3.17.5 All tanks, containers and drums shall be labelled to clearly indicate their contents.
- 3.18 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 facility. Once used the absorbent material shall be disposed of at an appropriate facility.

- 3.19 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.
- 3.20 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.
- 3.21 In the case of composite sampling of aqueous emissions from the operation of the facility a separate composite sample or homogeneous sub-sample (of sufficient volume as advised) should be refrigerated immediately after collection and retained as required for EPA use.
- 3.22 **Silt Traps and Oil Separators**
The licensee shall maintain silt traps and oil separators at the facility to ensure that all storm water discharges from the facility pass through a silt trap and oil separator in advance of discharge. The separator shall be a Class I full retention separator and the silt traps and separator shall be in accordance with I.S. EN 858-2:2003 (separator systems for light liquids).
- 3.23 All pump sumps, storage tanks, lagoons 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 separator, shall be fitted with high liquid level alarms (or oil detectors as appropriate) within three months from the date of grant of this licence.
- 3.24 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 the Schedule of Environmental Objectives and Targets set out in Condition 2 of this licence for the reduction in fugitive emissions.
- 3.25 The licensee shall maintain, in a prominent location on the site a wind sock, or other wind direction indicator, which shall be visible from the public roadway outside the site.
- 3.26 The licensee shall operate a weather monitoring station on the site at a location agreed by the Agency, which records conditions of wind speed and wind direction.

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

Condition 4. Interpretation

- 4.1 Emission limit values for emissions to atmosphere in this licence shall be interpreted in the following way:
- 4.1.1 Non-Continuous Monitoring
- (i) For any parameter where, due to sampling/analytical limitations, a 30 minute sample is inappropriate, a suitable sampling period should be employed and the value obtained therein shall not exceed the emission limit value.
- (ii) For all other parameters, no 30 minute mean value shall exceed the emission limit value.
- 4.2 Emission limit values for emissions to waters in this licence shall be interpreted in the following way:

- 4.2.1 Continuous Monitoring
- (i) No flow value shall exceed the specified limit.
 - (ii) No pH value shall deviate from the specified range.
 - (iii) No temperature value shall exceed the specified limit.
- 4.2.2 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 result similarly calculated shall exceed 1.2 times the emission limit value.
- 4.2.3 Discrete Sampling
- For parameters other than pH and temperature, no grab sample value shall exceed 1.2 times the emission limit value.
- 4.3 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.
- 4.4 Noise
- Noise from the facility shall not give rise to sound pressure levels measured at the boundary of the facility which exceed the limit value(s).
- 4.5 Dust and Particulate Matter
- Dust and particulate matter 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 facility 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 facility boundary or any other legitimate uses of the environment beyond the facility boundary.
- 5.3 Unless otherwise agreed by the Agency, no trade effluent and/or contaminated storm water shall be discharged to surface water drains and surface water courses.
- 5.4 Unless otherwise agreed with the Agency, all trade effluent shall be removed from the facility for disposal at a prior agreed waste water treatment plant.
- 5.5 There shall be no direct emissions to groundwater.
- 5.6 There shall be no clearly audible tonal component or impulsive component in the noise emissions from the activity at the noise sensitive locations.
- 5.7 The road network in the vicinity of the facility shall be kept free from any debris caused by vehicles entering or leaving the facility. Any such debris or deposited materials shall be removed without delay.

5.8 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 facility or beyond the facility boundary or any other legitimate uses of the environment beyond the facility boundary. Any method used by the licensee to control or prevent any such impairment/interference shall not cause environmental pollution.

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

Condition 6. Control and Monitoring

- 6.1 The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as set out in *Schedule C: Control & Monitoring*, of this licence.
- 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 measurement methods to calibrate automated measurement systems,
- shall be carried out in accordance with CEN-standards. If CEN standards are not available, ISO, national or international standards which will ensure the provision of data of an equivalent scientific quality shall apply;
- 6.2.1 Analysis shall be undertaken by competent staff in accordance with documented operating procedures;
- 6.2.2 Such procedures shall be assessed for their suitability for the test matrix and performance characteristics determined;
- 6.2.3 Such procedures shall be subject to a programme of Analytical Quality Control using control standards with evaluation of test responses;
- 6.2.4 Where analysis is sub-contracted it shall be to a competent laboratory.
- 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. Agreement for the use of alternative equipment, other than in emergency situations, shall be obtained from 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.
- 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 any 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, all 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. 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 drainage system, bunds, silt traps and oil separators shall be inspected weekly, desludged as necessary and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal.
- 6.10 Composting operation
- The licensee shall maintain an odour abatement system in the composting units which satisfies the following requirements:-
- (i) Installation and maintenance of negative pressure throughout the unit(s) to ensure no significant escape of odour or dust.
 - (ii) Provision of 100% duty capacity and 20% stand-by capacity for the air handling, ventilation and abatement plant.
- 6.11 Storm Water
- A visual examination of the storm water discharge shall be carried out daily. A log of such inspections shall be maintained.
- 6.12 Litter Control
- 6.12.1 All loose litter or other waste, placed on or in the vicinity of the facility, 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 10:00am of the next working day after such waste is discovered.
- 6.12.2 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered.
- 6.13 Dust/Odour Control
- 6.13.1 All putrescible and other odour forming waste for disposal stored overnight at the facility shall be stored in suitably covered and enclosed containers, and shall be removed from the facility within 48 hours, except at Public Holiday weekends. At Public Holiday weekends, waste for disposal shall be removed within 72 hours of its arrival on site.
- 6.13.2 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.
- 6.14 Operational Controls
- 6.14.1 The floor of the waste transfer building 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.

- 6.14.2 Scavenging shall not be permitted at the facility.
- 6.14.3 All tanks and drums shall be labelled to clearly indicate their contents.
- 6.14.4 There shall be no unauthorised public access to the waste transfer facility.
- 6.14.5 No dirty vehicles with the potential to foul the public highway shall be permitted to exit the site.

6.15 Monitoring Locations

- 6.15.1 Dust monitoring location D3 shall be moved to the eastern boundary of the site, to a location to be agreed by the Agency.
- 6.15.2 The licensee shall provide an additional dust monitoring location at the southern boundary of the site. This location is to be identified as D5.
- 6.15.3 Within three months of the date of grant of this licence, the licensee shall submit to the Agency an appropriately scaled drawing(s) showing all the monitoring locations that are stipulated in this licence including any noise-sensitive locations and private wells to be monitored. The drawing shall include the eight-digit national grid reference of each monitoring point.

6.16 Nuisance Monitoring

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

6.17 Noise

- 6.17.1 The trommel and timber shredder shall not be operated simultaneously.
- 6.17.2 Operations procedures for the mitigation of noise shall be drawn up and operated as part of the EMS, and as otherwise may be instructed by the Agency.
- 6.17.3 All timber shredding shall take place within the process building(s).
- 6.17.4 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 'Environmental Noise Survey Guidance Document' as published by the Agency.

6.18 Pollutant Release and Transfer Register (PRTR)

The licensee shall prepare and report a PRTR for the site. The substances and/or waste to be included in the PRTR shall be as agreed by the Agency each year by reference to EC Regulation No. 166/2006 concerning the establishment of the European Pollutant Release and Transfer Register and amending Council Directives 91/689/EEC and 96/61/EC. 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.

- 6.19 The licensee shall, within six months of the date of grant of this licence, develop and establish a Data Management System for collation, archiving, assessing and graphically presenting the monitoring data generated as a result of this licence.

6.20 Test Programme

The licensee shall prepare, to the satisfaction of the Agency, a test programme for the installation and operation of the proposed constructed wetland. This programme shall be submitted to the Agency prior to the commencement of discharge of treated storm water from the constructed wetland. The criteria for the operation of the constructed wetland as determined by the test programme, shall be incorporated into the standard operating procedures and *Schedule C.2.1 Control of Emissions to Water*.

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

Condition 7. Resource Use and Energy Efficiency

- 7.1 The licensee shall carry out an audit of the energy efficiency of the site 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 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 the 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 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.
- 8.2 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.
- 8.3 The licensee shall ensure that waste in advance of transfer to another person shall be classified, packaged and labelled in accordance with National, European and any other standards which are in force in relation to such labelling.
- 8.4 The loading and unloading of materials shall be carried out in designated areas protected against spillage and leachate run-off.
- 8.5 Waste shall be stored in designated areas, protected as may be appropriate against spillage and leachate run-off. The waste is to be clearly labelled and appropriately segregated.
- 8.6 All waste processing (including timber shredding) shall be carried out inside the waste transfer building, or composting units as may be appropriate.

- 8.7 No waste classified as green list waste in accordance with the EU Transfrontier Shipment of Waste Regulations (Council Regulation EEC No. 259/1993, as 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 Unless approved in writing by the Agency the licensee is prohibited from mixing a hazardous waste of one category with a hazardous waste of another category or with any other non-hazardous waste.
- 8.10 Stable, non-nuisance and non-pollutant forming processed waste (e.g. concrete, chipped wood, baled plastic and cardboard, and similar approved), may be stored external of the building in agreed areas/containers.
- 8.11 Waste Acceptance and Characterisation Procedures
- 8.11.1 Waste shall only be accepted at the facility from Local Authority waste collection or transport vehicles or holders of waste permits, unless exempted or excluded, issued under the Waste Management Acts 1996 to 2008. Copies of these waste collection permits must be maintained at the facility.
- 8.11.2 The licensee shall maintain and operate detailed written procedures for the acceptance and handling of wastes at the commercial waste transfer site and the Civic Amenity Facility operation.
- 8.11.3 Waste arriving at the facility (Civic Amenity Facility site excepted) shall be inspected at the point of entry to the facility and subject to this inspection, weighed, documented and directed to the appropriate Waste Transfer Building. Each load of waste arriving at the Waste Transfer Building shall be inspected upon tipping within this building. Only after such inspections shall the waste be processed for disposal or recovery.
- 8.11.4 Any waste deemed unsuitable for processing at the facility and/or in contravention of this licence shall be immediately separated and removed from the facility 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.
- 8.11.5 Waste shall be accepted at the facility (Civic Amenity Facility site excepted) only from known customers or new customers subject to initial waste profiling and waste characterisation off-site. The written records of this off-site waste profiling and characterisation shall be retained by the licensee for all active customers and for a two year period following termination of licensee/customer agreements. There shall be no casual public access to the waste transfer buildings.
- 8.11.6 A record of all inspections of incoming waste loads shall be maintained.
- 8.12 Composting Operations
- 8.12.1 The licensee shall maintain procedures for the handling/management of the composting process to include operational controls to ensure the quality of the finished product and mitigate emissions.
- 8.12.2 With the exception of waste wood, no biodegradable waste for composting shall be deposited outside the biodegradable waste composting building.

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

Condition 9. Accident Prevention and Emergency Response

- 9.1 The licensee shall maintain a documented Accident Prevention Procedure which will address 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, which shall address any emergency situation which may originate on-site. This procedure shall include provision for minimising the effects of any emergency on the environment. This procedure shall be reviewed annually and updated as necessary.
- 9.3 Incidents
- 9.3.1 In the event of an incident the licensee shall immediately:
- (i) carry out an investigation to identify the nature, source and cause of the incident and any emission arising therefrom;
 - (ii) isolate the source of any such emission;
 - (iii) evaluate the environmental pollution, if any, caused by the incident;
 - (iv) identify and execute measures to minimise the emissions/malfunction and the effects thereof;
 - (v) identify the date, time and place of the incident;
 - (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 action.
- 9.4 Emergencies
- 9.4.1 In the event of a complete breakdown of equipment or any other occurrence which results in the closure of a transfer station building, any waste arriving at or already collected at the facility 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 will be treated as an emergency and rectified as soon as possible.
- 9.4.2 All significant spillages occurring at the facility shall be treated as an emergency and immediately cleaned up and dealt with so as to alleviate their effects.
- 9.4.3 Unless as may be approved for energy recovery, no waste shall be burnt within the boundaries of the facility. A fire at the facility 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 facility 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.

Reason: To provide for the protection of the environment.

Condition 10. Decommissioning and Closure

- 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, subsoils, 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
- 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 for agreement within twelve months of the date of grant of this 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 Guidance on Environmental Liability Risk Assessment, Residuals Management Plans and Financial Provision when implementing Conditions 10.2.1 and 10.2.2 above.
- 10.3 The Decommissioning Management Plan shall include, as a minimum, the following:
- 10.3.1 A scoped statement for the plan.
- 10.3.2 The criteria that define the successful decommissioning of the activity or part thereof, which ensures minimum impact on the environment.
- 10.3.3 A programme to achieve the stated criteria.
- 10.3.4 Where relevant, a test programme to demonstrate the successful implementation of the decommissioning plan.
- 10.3.5 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. Notifications, Records and Reports

- 11.1 The licensee shall notify the Agency by both telephone and facsimile, if available, 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) Any release of environmental significance to atmosphere from any potential emission point including bypasses.
- (ii) Any emission which does not comply with the requirements of this licence.

- (iii) Any malfunction or breakdown of key control equipment or monitoring equipment set out in *Schedule C: Control & Monitoring* which is likely to lead to loss of control of the abatement system.
- (iv) Any incident with the potential for environmental contamination of surface water or groundwater, or posing an environmental 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.

- 11.2 In the case of any incident relating to discharges to water, the licensee shall notify the Local and Water Services Authorities and the Eastern Regional Fisheries Board as soon as practicable after such an incident.
- 11.3 The licensee shall make a record of any incident. This record shall include details of the nature, extent, and impact of, and circumstances giving rise to, the incident. The record shall include all corrective actions taken to manage the incident, minimise wastes generated and the effect on the environment, and avoid recurrence. The licensee shall, as soon as practicable following incident notification, submit to the Agency the incident record.
- 11.4 The licensee shall record all complaints of an environmental nature related to the operation of the activity. Each such record shall give details of the date and time of the complaint, the name of the complainant, (if provided), and give details of the nature of the complaint. A record shall also be kept of the response made in the case of each complaint.
- 11.5 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 facility.
- 11.6 The licensee shall as a minimum keep the following documents at the site:
 - (i) the licences relating to the facility;
 - (ii) the current EMS for the facility;
 - (iii) the previous year's AER for the facility;
 - (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 facility;
 - (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 referenced in this licence.and this documentation shall be available to the Agency for inspection at all reasonable times.
- 11.7 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.

- 11.8 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 wastes consigned abroad for Recovery and classified as 'Green' in accordance with the EU Transfrontier Shipment of Waste Regulations (Council Regulation EEC No. 259/1993, as 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.
 - (ix) The tonnages and EWC Code for the waste materials recovered on-site.
- 11.9 A record shall be kept of each consignment of trade effluent removed from the facility. The record shall include the following:
- (i) the name of the carrier;
 - (ii) the date and time of removal of trade effluent from the facility;
 - (iii) the volume of trade effluent, in cubic metres, removed from the facility on each occasion;
 - (iv) the results of any waste analyses required under *Schedule C.4. Compost, Tankered Effluent and Waste Monitoring*, of this licence;
 - (v) the name and address of the Waste Water Treatment Plant to which the trade effluent was transported; and
 - (vi) any incidents or spillages of trade effluent during its removal or transportation.
- 11.10 Waste Recovery Reports
- The licensee shall as part of their EMP prepare a report on the contribution by this facility to the achievement of the recovery targets stated in national and European Union waste policies and shall include the following:-
- (i) proposals for the contribution of the facility to the achievement of targets for the reduction of biodegradable waste to landfill as specified in the Landfill Directive;
 - (ii) the separation of recyclable materials from the waste;
 - (iii) the recovery of Construction and Demolition Waste;
 - (iv) the recovery of metal waste and WEEE; and
 - (v) composting of biodegradable or green waste at the facility having regard to good practice and sustainability.

- 11.11 The licensee shall submit report(s) 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.
- 11.12 All reports shall be certified accurate and representative by the installation/facility manager or a nominated, suitably qualified and experienced deputy.

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

Condition 12. Financial Charges and Provisions

12.1 Agency Charges

- 12.1.1 The licensee shall pay to the Agency an annual contribution of €14,760, 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 Waste Management Acts 1996 to 2008. The first payment shall be a pro-rata amount for the period from the date of this licence to the 31st day of December, and shall be paid to the Agency within one month from the date 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 Waste Management Acts 1996 to 2008, and all such payments shall be made within one month of the date upon which demanded by the Agency.
- 12.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased, the licensee shall contribute such sums as determined by the Agency to defray its costs in regard to items not covered by the said annual contribution.

12.2 Environmental Liabilities

- 12.2.1 The licensee shall 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.
- 12.2.2 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) to address 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 twelve 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. The review results are to be notified as part of the AER.
- 12.2.3 As part of the measures identified in Condition 12.2.1, the licensee shall, to the satisfaction of the Agency, make financial provision to cover any liabilities identified in Condition 12.2.2. 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 12.2.1.

12.2.4 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 12.2.1 to 12.2.3 above.

Reason: To provide for adequate financing for monitoring and financial provisions for measures to protect the environment

SCHEDULE A: Limitations

A.1 Waste Acceptance

Table A.1 Waste Categories and Quantities

WASTE TYPES		MAXIMUM ^{Note 2} (Tonnes per annum) Prior to Compliance with Condition 1.3	MAXIMUM ^{Note 2} (Tonnes per annum) Following written compliance with Condition 1.3
Non-Hazardous Wastes ^{Note 1}	Dry Recyclable Household ^{Note 3}	20,000	35,000
	Commercial & Industrial ^{Note 3}	45,000	75,000
	Construction & Demolition	85,000	120,000
	Biodegradable Waste (EWC 20.01.08)	15,000	20,000
TOTAL		165,000	250,000

Note 1: Any proposals to accept other compatible non-hazardous waste types must be agreed in advance by the Agency. 100 tonnes per annum of Household Hazardous Waste may be accepted at the Civic Amenity facility, as per S.I. No. 86 of 2008.

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

Note 3: Excluding putrescible waste, but including WEEE.

A.2 Authorised processes

The following waste related processes are authorised:

- i. Composting
- ii. Sorting, shredding, crushing, bailing, repackaging processes
- iii. C & D waste recovery (incl. crushing, screening, sorting, blending)
- iv. Storage of waste
- v. Receiving & Transfer of waste

No addition to these processes are permitted unless agreed in advance by the Agency.



SCHEDULE B: Emission Limits

B.1 Emissions to Air

Emission Point Reference No.: Biofilter emission from Biodegradable waste composting unit (A-1).
Location: Biofilter Unit

Parameter	Emission Limit Value
Ammonia	50mg/m ³
Hydrogen Sulphide	5mg/m ³
Mercaptans	5mg/m ³

B.2 Emissions to Water

Emission Point Reference No.: SW1
Name of Receiving Waters: Southern drain
Location: Southern boundary of site ^{Note 1}

Parameter	Emission Limit Value(mg/l)
BOD	5
Suspended Solids	25
Ammonia (as NH ₄)	1.0

Note 1: Location of SW1 may be changed with the agreement of the Agency.

B.3 Emissions to Sewer

There shall be no Process Effluent Emissions to Sewer.



B.4 Noise Emissions (Measured at NSL's)

Daytime dB(A) $L_{Aeq}(30\text{ minutes})$	Night-time dB(A) $L_{Aeq}(30\text{ minutes})$
55 ^{Note 1}	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.4 Dust Emissions

Emission Point Reference No.'s:

D1, D2, D3, D4, D5

Locations:

D1, D2, D4 - As indicated on Drawing No. PWS/002 of licence application.
 D3 - in accordance with Condition 6.15.1
 D5 - as required by Condition 6.15.2 of the licence or as agreed with the Agency.

Parameter	Level ($\text{mg}/\text{m}^2/\text{day}$) ^{Note 1}
Dust Deposition Limits	350

Note 1: 30 day composite sample with the results expressed as $\text{mg}/\text{m}^2/\text{day}$.

Schedule C: Control & Monitoring

C.1.1 Control & Monitoring of Emissions to Air

Emission Point Reference No.: Composting Unit Biofilter

Description of Treatment: Biofiltration

Control Parameter	Monitoring	Key Equipment ^{Note 1}
Bed Media		
Odour Assessment ^{Note 2}	Daily	Designated employee (Subjective)
Condition and Depth of biofilter ^{Note 3}	Daily	Designated employee (Visual)
Moisture content	Bi-Annually	Moisture gauge
pH	Bi-Annually	pH probe
Ammonia	Bi-Annually (Inlet & Outlet gas)	Sampling tubes, fresh bed media
Mercaptans	Bi-Annually (Inlet & Outlet gas)	Sampling tubes, fresh bed media
Total viable counts	Annually (Inlet & Outlet gas)	Sampling equipment, fresh bed media
Air Handling		
Flow/Negative Air Pressure	Pressure gauge/flow	Fans/air pumps

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

Note 2: This subjective assessment should be carried out by a staff member immediately upon arriving on site.

Note 3: The biofilter shall be examined to ensure that no channelling is evident, and that moisture content is adequate. Watering, turning, restructuring and the addition of supplementary bed materials, or total bed replacement shall be carried out, as required, subject to bed performance.

C.2.1 Control of Emissions to Water

Emission Point Reference No.: SW 1

Description of Treatment: Interceptor

Control Parameter	Monitoring	Key Equipment ^{Note 1}
Oil & sediment removal	Weekly	Shut-off valve

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

C.2.2 *Monitoring of Emissions to Water*

Emission Point Reference No.: SW 1

Parameter	Monitoring Frequency	Analysis Method/Technique
Visual	Daily	-
Dissolved Oxygen	Weekly	Meter/probe
Conductivity	Weekly	Meter/probe
Suspended solids	Weekly	Meter/probe
BOD	Quarterly	Standard method
COD	Quarterly	Standard method
Ammonia (as NH ₄)	Quarterly	Standard method
Sulphate (SO ₄)	Quarterly	Standard Method
Metals	Annually	Standard Method
Oils, fats & greases	Annually	Standard Method

C.3.1 *Control of Emissions to Sewer*

There shall be no process effluent emissions to sewer.

C.3.2 *Monitoring of Emissions to Sewer*

There shall be no process effluent emissions to Sewer.

C.4 Compost, Tankered Effluent & Waste Monitoring

Material/Emission	Frequency	Parameter	Method
Compost	Bi-annually	Metals, Organic Screen ^{Note 1} , Percentage Organic Matter, Sulphate, Chloride, Foreign matter, Coliforms, moisture content	Standard Method
Trade effluent sent off-site for disposal	Per Quarter	BOD, COD, Metals, Mineral Oils, Chloride, Ammonia (NH ₄), Sulphate, SS, pH	Standard Method
Other ^{Note 2}			

Note 1: Samples screened for the presence of organic compounds using Gas Chromatography / Mass Spectrometry (GC/MS) or other appropriate techniques and using the list I/II Substances from EU Directive 76/464/EEC and 80/68/EEC as a guideline. Recommended analytical techniques include: volatiles (US Environmental Protection Agency method 524 or equivalent), semi-volatiles (US Environmental Protection Agency method 525 or equivalent, and pesticides (US Environmental Protection Agency method 608 or equivalent).

Note 2: Analytical requirements to be determined on a case by case basis.



C.5 Noise Monitoring

Location	Measurement	Frequency
NSL1, NSL2, NSL3, NSL4	L _{aeq} (30 mins) L10 (30 mins) L90 (30 mins) Frequency analysis (1/3 Octave band analysis)	Quarterly



C.6 Ambient Monitoring

Ambient Air Monitoring

Location: D1, D2, D3, D4 and new D5

Parameter	Monitoring Frequency	Sampling Method/Technique	Analysis Method ^{Note 1} /Technique
Dust(mg/m ³ /day)	Quarterly ^{Note 2}	Bergerhoff instrument ^{Note 3}	Standard method
Bacteria ^{Note 5}	Annually ^{Note 4}	Grab sample	Agreed method
Aspergillus fumigatus ^{Note 5}	Annually ^{Note 4}	Grab sample	Agreed method

Note 1: Meteorological monitoring to be carried out concurrently with all above monitoring.

Note 2: Twice during the period May to September, or as otherwise specified in writing by the Agency.

Note 3: Standard method VD12119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute).

Note 4: Annually for 3 years, thereafter as may be required.

Note 5: At stations DS1 and DS3 only. Enumeration of colonies to be carried out as described in 'Standardised Protocol for the Sampling and Enumeration of Airborne Micro-organisms at composting Facilities' from the Composting Association, 1999.



C.7 Control & Monitoring of Emissions to Ground

Emission Point Reference No.: Biocycle unit ETP-1

Description of Treatment: Biological treatment of sanitary effluent and percolation area

Control Parameter	Monitoring	Key Provision / Equipment ^{Note 1}
BOD removal	BOD removal efficiency (biannual inlet and outlet analysis) Aeration fan operation (continuous automatic) Effluent transfer (continuous automatic)	Automated Biocycle fault diagnostics with alarm, sludge & effluent pumps, fan/blower,
Solids build-up	Solids levels (Quarterly visual)	Frequent solids removal

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



Schedule D: Specified Engineering Works

Specified Engineering Works
Constructed wetlands system. Any other works notified in writing to the Agency.

Schedule E: Annual Environmental Report

Annual Environmental Report Content^{Note 1}

Emissions from the facility.
Waste management record.
Resource consumption summary.
Complaints summary.
Schedule of Environmental Objectives and Targets.
Environmental management programme – report for previous year.
Environmental management programme – proposal for current year.
Pollutant Release and Transfer Register – report for previous year.
Pollutant Release and Transfer Register - proposal for current year.
Noise monitoring report summary.
Ambient monitoring summary.
Tank and pipeline testing and inspection report.
Reported incidents summary.
Energy efficiency audit report summary.
Report on progress made and proposals being developed to minimise water demand and the volume of trade effluent discharge.
Development/Infrastructural works summary, including reports on test programmes (completed in previous year or prepared for current year).
Reports on financial provision made under this licence, management and staffing structure of the facility, and a programme for public information.
Review of residuals management plan/closure, restoration & aftercare management plan.
Statement of measures in relation to prevention of environmental damage and remedial actions (Environmental Liabilities).
Environmental Liabilities Risk Assessment Review (every three years or more frequently as dictated by relevant on-site change including financial provisions).
Any other items specified by the Agency.

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 September, 2008 xxxxxxxx, Authorised Person