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

WASTE LICENCE
Proposed Decision

Licence Register Number:	W0219-01
Applicant:	Organic Gold (Marketing) Limited
Location of Facility:	Wilkinstown, Navan, County Meath

INTRODUCTION

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

Organic Gold (Marketing) Limited is an existing waste composting facility, which has been operating at the site near Wilkinstown, Navan, County Meath since 1986. It has operated under permits (WMP2000/17 and WMP2002/26) from Meath County Council since 2004. Waste Permit, WMP2002/26, expired in November, 2005 and a renewal was refused by Meath County Council The site is located 10 kms north of Navan in a rural agricultural setting approximately 380 meters from the crossroads in Wilkinstown village.

There are essentially two different waste processing activities proposed for the site:

The first is the production of Organic Gold Multi-Purpose Compost and High Grade Fertilizer in the fertilizer production shed.

The second waste processing activity is the composting of organic waste such as food waste, green waste, sludge, dewatered slurry and commercial organics (food waste, brewery by-product, horse bedding). This will involve the mixing of the various feedstocks in the waste reception building with bulking materials such as wood chip and saw dust. This material will then be moved to the enclosed composting vessels. After two weeks in the in-vessel units the material will be moved to forced aeration pads for a further 6-8 weeks.

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 Organic Gold (Marketing) Limited will operate and manage this facility.

Table of Contents

Page No.

Glossary of Terms 1

Decision & Reasons for the Decisions 6

Part I Schedule of Activities Licensed 7

Part II Schedule of Activities Refused 7

Part III Conditions 8

Condition 1. Scope 8

Condition 2. Management of the Facility 9

Condition 3. Infrastructure and Operation 11

Condition 4. Interpretation 15

Condition 5. Emissions 17

Condition 6. Control and Monitoring 17

Condition 7. Resource Use and Energy Efficiency 21

Condition 8. Materials Handling 21

Condition 9. Accident Prevention and Emergency Response 23

Condition 10. Decommissioning, Closure, Restoration and Aftercare 24

Condition 11. Notifications, Records and Reports 24

Condition 12. Financial Charges and Provisions 27

SCHEDULE A: Limitations 28

SCHEDULE B: Emission Limits 28

SCHEDULE C: Control &Monitoring 29

SCHEDULE D: Specified Engineering Works 34

SCHEDULE E: Annual Environmental Report 34

SCHEDULE F: Standards for Compost Quality 35

Glossary of Terms

All terms in this licence should be interpreted in accordance with the definitions in the Environmental Protection Agency Acts 1992 and 2003 / Waste Management Acts 1996 to 2005, 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.
Bi-annually	All or part of a period of six consecutive months.
Biennially	Once every two years.
Bioaerosol	An aerosol of biological particles.
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.
Compost	Stable, sanitised and humus like material rich in organic matter and free from offensive odours resulting from composting, of seperately collected biowaste which complies with the environmental quality classes outlined in *Schedule F: Standards for Compost Quality* of this licence.
Construction and Demolition 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 which 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).
DO	Dissolved Oxygen.
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.
Emergency	Those occurrences defined in Condition 9.
Emission Limits	Those limits, including concentration limits and deposition rates established in *Schedule B: Emission Limits* 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.
Forced aeration	The supply of air to a compost pile, by pumping (positive pressure) or by sucking air through the composting material (negative pressure).
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.
HFO	Heavy Fuel Oil.
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: (i) an emergency; (ii) any emission which does not comply with the requirements of this licence; (iii) any exceedence 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 2005.
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 not endanger the quality of surface water and/or groundwater.
In-vessel composting	Different composting methods in which material for composting is contained in a building, reactor or vessel.
IPPC	Integrated Pollution Prevention & Control.
K	Kelvin.
kPa	Kilo Pascals.
Landfill Directive	Council Directive 1999/31/EC.
Leq	Equivalent continuous sound level.
Licence	A Waste Licence issued in accordance with the Acts.
Licensee	Organic Gold (Marketing) Limited, Wilkinstown, Navan, County 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 adequately perform its function.
Mass Flow Limit	An Emission Limit Value which is expressed as the maximum mass of a substance which can be emitted per unit time.
Mass Flow Threshold	A mass flow rate, above which, a concentration limit applies.
Monthly	A minimum of 12 times per year, at approximately monthly intervals.
Municipal waste	As defined in Section 5(1) of the Acts.
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.
ppm	Parts per million.
Quarterly	All or part of a period of three consecutive months beginning on the first day of January, April, July or October.
Regional Fisheries Board	Eastern Regional Fisheries Board.
Sanitary Authority	Meath County Council.
Sanitary Effluent	Waste water from facility toilet, washroom and canteen facilities.
Sample(s)	Unless the context of this licence indicates to the contrary, samples shall include measurements by electronic instruments.
Sludge	The accumulation of solids resulting from chemical coagulation, flocculation and/or sedimentation after water or wastewater treatment, with greater than 2% dry matter.
SOP	Standard Operating Procedure.
Specified Emissions	Those emissions listed in *Schedule B: Emission Limits* of this licence.
Stabilised Biowaste	Waste resulting from the mechanical/biological treatment of unsorted waste or residual municipal waste including treated biowaste, which does not comply with the environmental quality classes outlined in *Schedule F: Standards for Compost Quality*, of this licence.
Standard Method	A National, European or internationally recognised procedure (eg, I.S. EN, ISO, CEN, BS or equivalent), as 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.
The Agency	Environmental Protection Agency.
TOC	Total Organic Carbon.
Trade Effluent	Trade Effluent has the meaning given in the Water Pollution Acts 1977 and 1990.
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.
Windrow	An elongated pile of composting material.

WWTP Waste Water Treatment Plant.

Decision & Reasons for the Decisions

The 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 2005.

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 2005, the Environmental Protection Agency (the Agency) proposes, under Section 40(1) of the said Acts to grant this Waste Licence to Organic Gold (Marketing) Limited, Wilkinstown, Navan, County Meath to carry on the waste activities listed below at Wilkinstown, Navan, County Meath subject to conditions, with the reasons therefor and the associated schedules attached thereto set out in the licence.

Licensed Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Acts 1996 to 2005

Class 2.	**Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes).**
Class 4.	**Recycling or reclamation of other inorganic materials.**
Class 11.	**Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.**
Class 12.	**Exchange of waste for submission to 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 Schedule of Activities Refused

On the basis of the information before it, the Environmental Protection Agency (the Agency), pursuant to its powers under Section 40(1) of the Waste Management Acts 1996 to 2005, proposes to refuse the following classes of activity.

Refused waste disposal activities, in accordance with the Third Schedule of the Waste Management Acts 1996 to 2005

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.**

Refused waste recovery activities, in accordance with the Fourth Schedule of the Waste Management Acts 1996 to 2005

Class 10.	**The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system.**

Part III Condition

Condition 1. Scope

1.1 Waste Acceptance Hours

1.1.1 Waste shall be accepted at the facility only between the hours of 08.00 a.m. to 19.00 p.m. Monday to Friday inclusive and 08.00 a.m. to 13.00 p.m. on Saturdays.

1.1.2 Waste shall not be accepted at the facility on Sundays or on Public Holidays.

1.2 Machinery used at the facility shall be operated only during the hours of 07.00 a.m. to 20.00 p.m. Monday to Friday inclusive and 07.00 a.m. to 14.00 p.m. on Saturdays.

1.3 Before commencing operations the licensee must satisfy the Agency that it has obtained consent from the Department of Agriculture and Food to treat and process animal by-products in composting/biogas on site.

1.4 Waste activities at this facility shall be restricted to those listed and described in Part I Activities Licensed, and shall be as set out in the licence application or as modified under Condition 1.9 of this licence and subject to the conditions of this licence.

1.5 Activities at this facility shall be limited as set out in *Schedule A: Limitations*, of this licence.

1.6 Unless otherwise agreed by the Agency, only those wastes outlined in *Schedule A: Waste Acceptance*, of this licence and listed under Annex 1 of the EC Working Document 'Biological Treatment of Biowaste' (2nd draft) or subsequent amendments shall be accepted at the facility for the production of compost.

1.7 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.

1.8 For the purposes of this licence, the facility authorised by this licence, is the area of land outlined in red on Drawing No. DG0002 of the application. Any reference in this licence to "facility" shall mean the area thus outlined in red. The licensed activity/activities shall be carried on only within the area outlined.

1.9 No alteration to, or reconstruction in respect of, the activity or any part thereof which 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.

1.10 This licence is for the purposes of waste licensing under the Waste Management Acts 1996 to 2005 only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.

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 FAS waste management training programme or equivalent agreed by the Agency.

2.2 Environmental Management System (EMS)

2.2.1 The licensee shall establish and maintain an Environmental Management System (EMS) within six months of the date of grant of this licence. 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 prepare and 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. 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, not later than six months from the date of grant of this licence, submit to the Agency for agreement 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 established and 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) (Condition 11.8).

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 establish and 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 establish and 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 establish and 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 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 (a) The licensee shall establish all infrastructure referred to in this licence in advance, of the acceptance of waste and the commencement of the licensed activities or as required by the conditions of this licence.

(b) The waste shall not be accepted prior to the requirements of Condition 3.1(a) being complied with to the satisfaction of the Agency and without the prior written approval of the Agency.

3.2 Specified Engineering Works

3.2.1 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.

3.2.2 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.

3.2.3 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.

3.3 Facility Security

3.3.1 Security and stockproof fencing and gates shall be installed and 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.

3.3.2 Gates shall be locked shut when the facility is unsupervised.

3.3.3 The licensee shall remedy any defect in the gates and/or fencing as follows:-

3.3.3.1 A temporary repair shall be made by the end of the working day; and

3.3.3.2 A repair to the standard of the original gates and/or fencing shall be undertaken within three working days.

3.4 Facility Roads and Site Surfaces

3.4.1 Effective site roads shall be provided and maintained to ensure the safe movement of vehicles within the facility.

3.4.2 The licensee shall provide, and maintain an impermeable concrete surface in the areas of the facility shown on Drawing No. DG0002A06.

3.5 Facility Office

3.5.1 The licensee shall provide and maintain an office at the facility. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.

3.5.2 The licensee shall provide and maintain a working telephone and a method for electronic transfer of information at the facility.

3.6 Compost Facility

3.6.1 Appropriate infrastructure for the composting of waste shall be established and maintained at the facility in advance, of any waste being composted. This infrastructure shall at a minimum comprise the following:

3.6.1.1 In-vessel Composting

The licensee shall, before commencement of the activity, provide a composting area and associated infrastructure at the location shown on Drawing DG0002A06 of the application.

3.6.2 To provide for aerobic composting (indoor or outdoor), the licensee shall provide the composting material with: a 5% minimum concentration of oxygen within the pore spaces, appropriate moisture levels, pH 6.0-9.0 and appropriate C:N ratio.

3.7 Waste Inspection and Quarantine Areas

3.7.1 A Waste Inspection Area and a Waste Quarantine Area shall be provided and 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 the quarantine area shall be directed to the process effluent management system.

3.7.4 The licensee shall provide on-site storage tanks for the collection and temporary storage of roof water from any site-buildings. This water shall be re-used in the process where possible.

3.7.5 While awaiting collection, mature compost shall be stored in areas protected against uncontrolled run-off and nuisance formation.

3.8 Waste handling, ventilation and processing plant

3.8.1 Items of plant deemed critical to the efficient and adequate processing of waste at the facility 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 back up and spares in the case of breakdown of critical equipment.

3.8.2 Within three months from the date of grant of this licence, the licensee shall provide a report for the agreement of the Agency 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: Waste Acceptance,* of this licence.

3.8.3 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.

3.8.4 If sludges/slurry are being accepted the licensee must ensure that an enclosed tank be provided for storage of sludge/slurry to ensure safe coupling system for loading/unloading from road tankers.

3.8.5 The licensee shall provide shut-off valves on any surface/wastewater discharge lines.

3.9 Weighbridge and Wheel Cleaning

3.9.1 The licensee shall provide and maintain a weighbridge and access to appropriate wheel cleaning equipment at the facility.

3.9.2 The wheel cleaner shall be used by all vehicles leaving the facility as required to ensure that no process water or waste is carried off-site. All water from the wheel cleaning area shall be directed to the trade effluent drainage network.

3.9.3 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.

3.10 Leachate Management Infrastructure

3.10.1 Leachate management infrastructure shall be provided and maintained at the facility as described in the Application documentation, or as may be varied by a licence condition.

3.10.2 All structures for the transportation, storage and/or treatment of leachate shall be fully enclosed except for inlet and outlet piping.

3.11 Groundwater Wells

Groundwater monitoring wells shall be constructed having regard to the guidance given in the Agency's landfill manual "Landfill Monitoring".

3.12 Continuous Monitoring System

Within nine months of the date of grant of this licence a continuous monitoring system shall be installed and maintained at the facility. All facility operations linked to the telemetry system shall also have a manual control which will be reverted to in the event of break in power supply or during maintenance. As a minimum the system shall record and relay the temperature and oxygen content of the compost at all stages during its production.

3.13 Facility Notice Board

3.13.1 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.

3.13.2 The board shall clearly show:-

(i) the name and telephone number of the facility;
(ii) the normal hours of operation;
(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.

3.13.3 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.

3.14 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.

3.15 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 Agency use.

3.16 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.

3.17 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).

317.2 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 Silt Traps and Oil Separators

The licensee shall install and maintain silt traps and oil separator 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).

3.20 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 separator, shall be fitted with high liquid level alarms (or oil detectors as appropriate) within six months from the date of grant of this licence.

3.21 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 Objectives and Targets set out in Condition 2.2.2.2 of this licence for the reduction in fugitive emissions.

3.22 The wellhead shown on Drawing DG0007A02 shall be adequately protected to prevent contamination or physical damage within three months from the date of grant of this licence.

3.23 The licensee shall, within three months of the date of grant of this licence, install 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.

3.24 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.

3.25 The licensee shall provide and maintain a Wastewater Treatment plant at the facility for the treatment of sanitary effluent arising on-site. 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.

3.26 Prior to the date of commencement of the licensable activities at the facility, the licensee shall submit a detailed odour management plan to the Agency, and the waste activities shall not commence until the Agency has agreed the plan. This plan shall be updated on an annual basis.

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 Continuous Monitoring:

(i) No 24 hour mean value shall exceed the emission limit value.

(ii) 97% of all 30 minute mean values taken continuously over an annual period shall not exceed 1.2 times the emission limit value.

(iii) No 30 minute mean value shall exceed twice the emission limit value.

4.1.2 For Non-Continuous Monitoring

(i) For any parameter where, due to sampling/analytical limitations, a 30 minute sample is inappropriate, a suitable sampling period should be employed and the value obtained therein shall not exceed the emission limit value.

(ii) For flow, no hourly or daily mean value, calculated on the basis of appropriate spot readings, shall exceed the relevant limit value.

(iii) For all other parameters, no 30 minute mean value shall exceed the emission limit value.

4.2 The concentration and volume flow limits for emissions to atmosphere specified in this licence shall be achieved without the introduction of dilution air and shall be based on gas volumes under standard conditions of:-

4.2.1 In the case of non-combustion gases:

Temperature 273K, Pressure 101.3 kPa (no correction for oxygen or water content).

4.2.2 In the case of combustion gases:

Temperature 273K, Pressure 101.3 kPa, dry gas; 3% oxygen for liquid and gas fuels; 6% oxygen for solid fuels.

4.3 Emission limit values for emissions to sewer/waters in this licence shall be interpreted in the following way:-

4.3.1 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 limit value.

4.3.2 Composite Sampling:

(i) No pH value shall deviate from the specified range.

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

4.3.3 Discrete Sampling

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

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

4.5 Noise

Noise from the facility shall not give rise to sound pressure levels (Leq,T) measured at the boundary of the facility which exceed the limit value(s).

4.6 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, leachate and/or contaminated storm water shall be discharged to surface water drains and courses.

5.4 No substance shall be discharged in a manner, or at a concentration that, following initial dilution, causes tainting of fish or shellfish.

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 licensee shall ensure that all or any of the following:–

- vermin
- birds
- flies
- mud
- dust
- litter,

which are 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 below and as in accordance with *Schedule C* : *Control & Monitoring,* of this licence:

6.1.1 Analysis 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 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 analysis is sub-contracted it shall be to a competent laboratory.

6.2 Sampling and analysis of all pollutants as well as 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.

6.3 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 or discharge.

6.5 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.

6.6 All treatment/abatement and emission control equipment shall be calibrated and maintained, in accordance with the instructions issued by the manufacturer/supplier or installer.

6.7 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended with the agreement of the Agency following evaluation of test results.

6.8 The licensee shall prepare a programme, to the satisfaction of the Agency, for the identification and reduction of fugitive emissions. This programme shall be included in the Environmental Management Programme.

6.9 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. This testing shall be carried out by the licensee at least once every three years 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.

6.10 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.

6.11 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 Ground Water

The licensee shall within twelve months of date of grant of this licence arrange for the carrying out, by an appropriately qualified consultant/professional, of a comprehensive hydrogeological investigation of the site. The scope, detail and programme, including report structure and reporting schedule, for this investigation must be agreed by the Agency prior to implementation. Any recommendations arising from a report or reports on this investigation must be implemented within such a period to be agreed by the Agency.

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 'Environmental Noise Survey Guidance Document' 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 substances and/or waste to be included in the PRTR shall be 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.

6.15 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 environmental monitoring data generated as a result of this licence.

6.16 Dust/Odour Control

6.16.1 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.

6.16.2 In advance of the date of commencement of the licensable activities at the facility the licensee shall, with the agreement of the Agency, install and provide adequate measures for the control of odours and dust emissions, including fugitive dust emissions, from the facility. Such measures shall at a minimum include the following:-

6.16.2.1 Installation of an odour management system.

6.16.2.2 Installation of an appropriate air extraction and abatement system in the waste reception building.

6.16.2.3 Installation of appropriately sized biofilters for the in-vessel composting units.

6.16.2.4 Installation of forced aeration pads for all windrow composting.

6.17 Litter Control

6.17.1 The measures and infrastructure as described in the Application documentation shall be applied to control litter at the facility.

6.17.2 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.

6.17.3 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered.

6.18 Operational Controls

6.18.1 Gates shall be locked shut when the facility is unsupervised.

6.18.2 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.

6.18.3 Fuels shall be stored only at appropriately bunded locations on the facility.

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

6.18.5 All wastewater from composting operations shall be collected and re-used in the composting process where possible. Any wastewater from the composting operations that is not re-used shall be either discharged to the wastewater drainage system or tankered off-site for treatment at a location to be agreed in advance by the Agency.

6.18.6 Any biowaste accepted at the facility for composting (other than bulking agents, e.g. woodchip, cardboard) shall be processed and put into the aerated composting area within twelve hours of its arrival at the facility.

6.18.7 The licensee shall ensure that the doors to the biowaste treatment building remain closed at all times other than to facilitate the delivery/removal of wastes from the building.

6.18.8 The licensee shall on a daily basis monitor and record the temperature and the moisture content of the material at a number of locations to be agreed in advance by the Agency.

6.19 All tanks and drums shall be labelled to clearly indicate their contents.

6.20 The green waste shredder shall only be operated indoors and must not be operated between the hours of 1800 and 0800.

6.21 There shall be no casual public access to the facility.

6.22 Within three months of the date of grant of this licence, the following information shall be submitted to the Agency for its agreement: the names, qualifications and a summary of relevant experience of all persons that will carry out all sampling and monitoring as required by this licence and who carry out the interpretation of the results of such sampling and monitoring. Any proposed changes to the above shall be submitted in writing to the Agency for its agreement.

6.23 Nuisance Monitoring

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

6.24 Bioaerosol Monitoring

6.24.1 Prior to the commencement of waste acceptance the licensee shall submit to the Agency the results of a baseline bioaerosol monitoring study (to include in particular, spores *of Aspergillus fumigatus* and Actinomycetes) carried at different locations at the proposed site and outside of the site boundary, to include sampling location(s) in the vicinity of the nearest receptor sites.

6.24.2 The licensee shall carry out the bioaerosol monitoring in accordance with *Schedule C: Control and Monitoring,* of this licence.

6.25 Monitoring Locations

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 monitoring locations. The drawing shall include the eight-digit national grid reference of each monitoring point.

6.26 Meteorological Monitoring

The licensee shall provide suitable infrastructure at the facility for the monitoring of wind speed, wind direction and rainfall on a daily basis.

6.27 Compost Quality

6.27.1 Compost quality monitoring shall be undertaken as set out in *Schedule F: Standards for Compost Quality,* of this licence.

6.27.2 Any compost not meeting any standard as per *Schedule F: Standards for Compost Quality*, of this licence may be reused in the process or handled as a waste and details recorded as per Waste Records condition.

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 2.2.2.2 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 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 only from the site of the activity to the site of recovery/disposal 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 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.

8.7 Waste for disposal/recovery off-site shall be analysed in accordance with *Schedule C: Control & Monitoring* of this licence.

8.8 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.

8.9 Waste Acceptance and Characterisation Procedures

8.9.1 Within six months of the date of grant of this licence, the licensee shall establish and maintain detailed written procedures for the acceptance and handling of wastes.

8.9.2 Waste arriving at the facility shall be inspected at the point of entry to the facility and subject to this inspection, weighed, documented and directed to the Waste Compost area. Each load of waste arriving at the Waste Compost facility shall be inspected upon tipping within this facility. Only after such inspections shall the accepted waste be processed for recovery.

8.9.3 The licensee shall ensure that incoming waste (and intermediate compost) is stored in a manner to prevent nuisance from odour, dust, vermin and birds .

8.9.4 No waste shall be stored overnight at the facility other than in designated storage areas in the biowaste reception buildings.

8.9.5 All waste processing shall occur inside an appropriate building, unless otherwise agreed by the Agency.

8.9.6 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.

8.9.7 A record of all inspections of incoming waste loads shall be maintained.

8.9.8 Waste shall be accepted at the facility 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.

8.10 Prior agreement must be obtained from the Local Authority for disposal of any waste/foul water off site to the treatment plant.

8.11 Compost

8.11.1 In order not to be considered a waste, compost produced by the facility shall, unless otherwise agreed by the Agency, comply with the quality standards established in *Schedule F: Standards for Compost Quality*, of this licence. Analysis of the compost shall be in accordance with the requirements of that Schedule.

8.11.2 Compost not meeting the above standard will be regarded as waste and records shall be kept of such waste.

8.11.3 No waste shall be deposited outside the biodegradable waste composting area without the prior written permission of the Agency.

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, within six months of date of grant of this licence, ensure that a documented Accident Prevention Procedure is in place 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, within six months of date of grant of this licence, ensure that a documented Emergency Response Procedure is in place, 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 the 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 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, Closure, Restoration and Aftercare

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. The licensee shall carry out such tests, investigation or submit certification, as requested by the Agency, to confirm that there is no 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 either facsimile or electronic mail, 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,* of this licence 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 event of any incident which relates to discharges to sewer, having taken place, the licensee shall notify the Local and Sanitary Authority as soon as practicable, after such an incident.

11.3 In the case of any incident which relates to discharges to water, the licensee shall notify the Local Authority and the Eastern Regional Fisheries Board as soon as practicable after such an incident.

11.4 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.

11.5 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 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.

11.6 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.

11.7 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;

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

11.8 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.

11.9 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/disposed on-site.

11.10 Waste Recovery Reports

The licensee shall as part of the AER submit a report on the contribution by this facility to the achievement of the recovery targets and strategy stated in National and European Union waste policies.

11.11 The following records shall be maintained by the licensee:-

(i) all training undertaken by facility staff;

(ii) results from all integrity tests of bunds and other structures and any maintenance or remedial work arising from them;

(iii) details of all nuisance inspections; and

(iv) the names and qualifications of all persons who carry out all sampling and monitoring as required by this licence and who carry out the interpretation of the results of such sampling and monitoring.

11.12 A record shall be kept at the facility of the programme for the control and eradication of vermin and fly infestations at the facility. These records shall include as a minimum the following:-

(i) the date and time during which spraying of insecticide is carried out;

(ii) contractor details;

(iii) contractor logs and site inspection reports;

(iv) details of the rodenticide(s) and insecticide(s) used;

(v) operator training details;

(vi) details of any infestations;

(vii) mode, frequency, location and quantity of application; and,

(viii) measures to contain sprays within the facility boundary.

11.13 A record shall be kept of each consignment of trade effluent, leachate and/or contaminated storm water 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, leachate and/or contaminated storm water from the facility;

(iii) the volume of trade effluent, leachate and/or contaminated storm water, in cubic metres, removed from the facility on each occasion;

(iv) the name and address of the Waste Water 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 Where compost product contains sewage sludge the licensee shall retain the following records on site:

(i) A copy of the notifications to the Local Authority as required under Article 8 (1) and Article 8 (3) of SI 148 of 1998 (Waste Management (Use of sewage sludge in agriculture) Regulations, 1998).

(ii) This shall include *inter alia*; sludge analysis, records of sludge quantities, sludge properties, treatment type and location/name of the recipient of the sludge (sludge meaning compost containing treated sludge).

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

Condition 12. Financial Charges and Provisions

12.1 Agency Charges

12.1.1 The licensee shall pay to the Agency an annual contribution of €13,970, 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 2005. 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 2005, 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 defraying its costs in regard to items not covered by the said annual contribution.

12.2 Environmental Liabilities

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.

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

SCHEDULE A: Limitations

A.1 Waste Processes

The following waste related processes are authorised:

i. Shredding, crushing, bailing, mixing and repackaging processes.
ii. Composting.
iii. Storage of waste for recovery.

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

A.2 Waste Categories and Quantities

Waste Types Note 1	Non-hazardous biodegradables (such as food waste, green waste, sludge, dewatered slurry, brewery by-product)
Maximum (Tonnes per annum)	25,000

Note 1: Or other wastes to be agreed in advance by the Agency.

SCHEDULE B: Emission Limits

Table B.1 Emissions to Air

Dust Deposition Limits: (Measured at the monitoring points indicated in Drawing 10.1, Volume 1, Section 10 of the EIS)

Level (mg/m^2 /day)Note 1
350

Note 1: 30 day composite sample with the results expressed as mg/m^2 /day.

Emission Limits Values for Biofilters

Emission Point Reference Nos: To be agreed by the Agency

Parameter	Emission Limit Value
Ammonia	50 ppm(v/v)
Hydrogen sulphide	5 ppm (v/v)
Mercaptans	5 ppm (v/v)

B.2 Emissions to Water

There shall be no process Emissions to Water of environmental significance.

B.3 Emission to Sewer

There shall be no Process Effluent Emissions to Sewer.

B.4. Noise Emissions

Daytime dB(A) L_{Aeq}(30 minutes)	Night-time dB(A) L_{Aeq}(30 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.

SCHEDULE C: Control & Monitoring

C.1.1 Control of Emissions to Air

Emission Point Reference No.: **To be Agreed by the Agency**

Control Parameter	Monitoring	Key Equipment Note 1
Extraction	Continuous with alarm/call-out	Pressure gauge or equivalent approved Pumps/engines
Aeration	Continuous	Oxygen probe
Temperature control of compost	Continuous	Temperature probe

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 Emissions to Air

Monitoring Point Reference No.: To be Agreed by the Agency

Parameter	Monitoring Frequency	Analysis Method/Technique
Dust (mg/m^2/day)	Quarterly Note 1	**Gravimetry (Bergerhoff Gauge)** Note 2
Odour	Quarterly Note 3	See Note 3
Bacteria	Annually	Grab sample Note 4
Aspergillus fumigatus	Annually	Grab sample Note 4
PM_{10}(µg/m^3)	Bi-Annually	See Note 5

Note 1: Twice during the period May to September, or as otherwise specified in writing by the Agency.
Note 2: Standard method VDI2119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute).
Note 3: Odour measurements shall be by olfactometric or other appropriate measurement and analysis for mercaptans, hydrogen sulphide, ammonia, and amines.
Note 4: Enumeration of colonies to be carried out as described in 'Standardised Protocol for the Sampling and Enumeration of Airborne Micro-organisms at composting Facilities' the Composting Association 1999.
Note 5: As described in prEN12341 "Air Quality - field test procedure to demonstrate reference equivalence of sampling methods for PM10 fraction of particulate matter" or an alternative agreed in writing by the Agency.

Air & Odour Monitoring *Note 1*

Biofilters

Emission Point Reference No.: To be Agreed by the Agency

Parameter	Monitoring Frequency	Analysis Method/Technique
Bed Media		
Odour assessment Note 2	Daily	Subjective Assessment
Condition and depth of biofilter Note 3	Daily	Visual Inspection
Moisture content	Bi-annually	Gravimetry
pH	Bi-annually	pH probe
Ammonia	Bi-annually	Colorimetry/Ion Selective Electrode
Total viable counts	Bi-annually	Agar plates, 22/37^{o}C incubation
Inlet and Outlet Gas		
Ammonia	Bi-annually	Colourimetric Indicator Tubes
Hydrogen sulphide	Bi-annually	Colourimetric Indicator Tubes
Mercaptans	Bi-annually	Colourimetric Indicator Tubes
Amines	Bi-annually	Colourimetric Indicator Tubes

Note 1: Where appropriate all analyses shall be carried out by a competent laboratory using standard and internationally acceptable techniques. The testing laboratory and the testing technique shall be agreed by the Agency in advance.
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 of filter bed media 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

There shall be no Emissions to Water of environmental significance.

C.2.2 Monitoring of Emissions to Water

There shall be no Emissions to Water of environmental significance.

C.2.3 Monitoring of Storm Water Emission

Emission Point Reference No.: To be Agreed by the Agency

Parameter	Monitoring Frequency	Analysis Method/Technique
pH	Weekly	pH electrode/meter
Temperature	Weekly	Thermometer
COD	Weekly	Digestion/Colorimetry
Ammonia (as N)	Weekly	Colorimetry/Ion Selective Electrode
Total Nitrogen (as N)	Weekly	Digestion/Colorimetry
Conductivity	Weekly	Conductivity meter/probe
Visual Inspection	Weekly	Sample and examine for colour and odour

C.3.1 Control of Emissions to Sewer

There shall be no Process Effluent Emissions to Sewer.

C.3.2 Monitoring of Emissions to Sewer

There shall be no Process Effluent Emissions to Sewer.

C.4 Waste Monitoring

Waste Class	Frequency	Parameter	Method
Other [Note 1]			

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

C.5 Noise Monitoring

Noise Monitoring Frequency and Technique

Parameter	Monitoring Frequency	Analysis Method/Technique
$L(A)_{EQ}$ [30 minutes]	Quarterly	Standard [Note 1]
$L(A)_{10}$ [30 minutes]	Quarterly	Standard [Note 1]
$L(A)_{90}$ [30 minutes]	Quarterly	Standard [Note 1]
Frequency Analysis(1/3 Octave band analysis)	Quarterly	Standard [Note 1]

Note 1: "International Standards Organisation. ISO 1996. Acoustics - description and Measurement of Environmental noise. Parts 1, 2 and 3."

C.6 Ambient Monitoring

Air Monitoring

Location: To be Agreed by the Agency

Parameter	Monitoring Frequency	Analysis Method/Technique
Dust deposition	Monthly	Bergerhoff Gauge

C.7 Monitoring of Processes

Parameter	Monitoring Frequency	Monitoring equipment/method
• **Composting piles**		
Temperature vs. time	Continuous	Temperature probe/recorder
Oxygen Content	Daily	Oxygen Probe with recorder
• **Compost maturation (curing) piles**		
Temperature	Continuous	Temperature probe
Moisture	Daily	Subjective by operator.

C.8 Groundwater Monitoring

Location: To be agreed by the Agency

Parameter	Monitoring Frequency	Analysis[Note 3] Method/Technique
pH	Annually	pH electrode/meter
COD	Annually	Digestion/Colorimetry
Nitrate	Annually	Colorimetry/Ion Selective Electrode
Ammonia	Annually	Colorimetry/Ion Selective Electrode
Total Nitrogen	Annually	Digestion/Colorimetry
Conductivity	Annually	Conductivity probe/meter
Chloride	Annually	Colorimetry/Ion Chromatography
Fluoride	Annually	Ion Chromatography/ Ion Selective Electrode
Priority Substances Screening[Note 1]	Annually	GC-MS
Sulphate (SO_4)	Annually	Ion Chromatography
Metals/ Non Metals[Note 2]	Annually	Atomic Spectrometry (AAS or ICP)
Mercury	Annually	Atomic Spectrometry (AAS or ICP)
Total P/Orthophosphate	Annually	Digestion/Colorimetry
Faecal Coliforms	Annually	Standard Method
Total Coliforms	Annually	Standard Method

Note 1: Screening for priority pollutant list substances (such as US EPA volatile and/or semi-volatile compounds and chlorinated pesticide/herbicide products) using standard analytical procedures based on Irish, European or USEPA test methods.

Note 2: Metals and elements to be analysed by AAS/ICP should include as a minimum: boron, cadmium, calcium, chromium (total), copper, iron, lead, magnesium, manganese, nickel, potassium, sodium and zinc.

Note 3: Or as otherwise agreed by the Agency

SCHEDULE D: Specified Engineering Works

Specified Engineering Works
Development of the facility including installation of waste handling, processing, recycling/recovery infrastructure and installation of increased waste processing capacity as well as any abatement system(s).
Installation of drainage network including silt traps and oil interceptors etc.
Installation of Compost Area.
Any other works notified in writing by 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.
Odour Management Plan.
Report on the assessment of the efficiency of use of raw materials in processes and the reduction in waste generated.
Report on progress made and proposals being developed to minimise water demand and the volume of trade effluent discharge.
Development / Infrastructural works summary (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.
Closure, Restoration & Aftercare Management Plan.
Any other items specified by the Agency.

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

SCHEDULE F: Standards for Compost Quality

Compost Quality

No sample shall exceed 1.2 times the quality limit values set.

[The following criteria (where they apply to compost) are deemed a quality standard for the use of compost as a soil improver and should not be deemed as criteria for fertiliser. In addition N, P, K, NH_4-N, NO_3-N, pH and dry matter content should also be measured].

1. Maturity (Compost)

The state of the curing pile must be conducive to aerobic biological activity.
Compost shall be deemed to be mature if it meets two of the following groups of requirements or other maturity tests as may be agreed by the Agency:

1. Respiration activity after four days AT_4 is $\leq 10mg/O_2/g$ dry matter or Dynamic Respiration Index is $\leq 1{,}000mgO_2/kg$ VS/h.

2. Germination of cress (*Lepidium sativum*) seeds and of radish (*Raphanus sativus*) seeds in compost must be greater than 90 percent of the germination rate of the control sample, and the growth rate of plants grown in a mixture of compost and soil must not differ more than 50 percent in comparison with the control sample.

3. Compost must be cured for at least 21 days; and
   Compost will not reheat upon standing to greater than 20°C above ambient temperature.

   Or

   Compost must be cured for a six month period and offensive odours from the compost shall be minimal for the compost to be deemed mature.

2. Trace Elements (Compost) [Note 1, 2 & 3]

Maximum Trace Element Concentration Limits [Note 4]

Parameter (mg/kg, dry mass)	Compost Quality Standards [Note 5]		Stabilised Biowaste [Note 5]
	Class 1	Class 2	
Cadmium (Cd)	0.7	1.5	5
Chromium (Cr)	100	150	600
Copper (Cu)	100	150	600
Mercury (Hg)	0.5	1	5
Nickel (Ni)	50	75	150
Lead (Pb)	100	150	500
Zinc (Zn)	200	400	1500
Polychlorintated Biphenyls (PCB's)	-	-	0.4
Polycyclic Aromatic Hydrocarbons (PAH's)	-	-	3
Impurities >2mm [Note 6]	<0.5%	<0.5%	<3%
Gravel and Stones >5mm [Note 6]	<5%	<5%	-

Note 1: These limits apply to the compost just after the composting phase and prior to mixing with any other materials.
Note 2: Incoming sludges (other than sewage sludges) shall be monitored quarterly (on a client by client basis) for the parameters outlined in this table in addition to Selenium (Se) and Molybdenum (Mo).
Note 3: Monitoring of Arsenic (As) is required if waste timber is used in the composting process.
Note 4: The above alone should not be taken as an indication of suitability for addition to soil as the cumulative metal additions to soil should be first calculated.
Note 5: Normalised to 30% organic matter content.
Note 6: Compost must not contain any sharp foreign matter measuring over a 2 mm dimension that may cause damage or injury to humans, animals and plants during or resulting from its intended use.

3. Pathogens (Compost)

Pathogenic organism content must not exceed the following limits:

Salmonella spp.	Absent in 50g	n=5
Faecal Coliforms	≤ 1000 Most Probable Number (MPN) in 1g	n=5

Where: n = Number of samples to be tested.

4. Monitoring (Compost)

The licensee shall submit to the Agency for its agreement, prior to commencement of the composting operations, details of the sampling protocol, methods of analyses and sample numbers.

❖

Signed on behalf of the said Agency
on the 13th day of March, 2007

Mr Patrick Nolan
Authorised Person