

## Attachment B3

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Molaisín Compost Ltd  
Waste Licence Application



**Attachment B3**

Planning Permission Ref.No. PD.02/681

Waste Permit Ref. No. WP/05/2004

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LOCAL GOVERNMENT (PLANNING & DEVELOPMENT ACTS), 1963-2000.  
NOTIFICATION OF DECISION TO GRANT PERMISSION (SUBJECT TO CONDITIONS)

WATERFORD COUNTY COUNCIL.

REF. NO.PD.02/681

TO William & Caroline O'Brien  
C/O Ailtire Architectural Services  
Leigh  
Ring  
Co. Waterford.

In pursuance of the powers conferred upon them by the above mentioned Acts, the County Council of Waterford have by Order Dated 26<sup>th</sup> September 2002 decided to Grant PERMISSION FOR THE DEVELOPMENT OF LAND NAMELY:

Permission to construct a building to contain a composting facility and ancillary works at Kilmolash and Woodstock Cappoquin Co. Waterford.

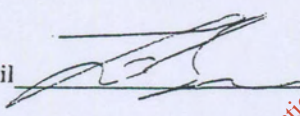
In accordance with the plans submitted and subject to 8 Condition(s) set out in Column 1 of attached Schedule. The Reasons for the imposition of the said Conditions are set out in Column 2 of the Schedule. If there is no Appeal against the said Decision a GRANT OF PERMISSION in accordance with the Decision will be issued after the expiration period within which an Appeal may be made to AN BORD PLEANALA. (See Footnote).

OUTLINE PERMISSION

It should be noted that an **OUTLINE PERMISSION** is a Permission subject to the subsequent **Permission Consequent** of the Planning Authority and that until such **PERMISSION CONSEQUENT** has been obtained to detailed plans of the development proposed, the development is **NOT AUTHORISED**.

PERMISSION/PERMISSION CONSEQUENT

It should be noted that until a Grant of PERMISSION has been issued, the development in question is **NOT AUTHORISED**.

Signed on behalf of said Council  Director of Services.

Date: 26/09/2002

FOOTNOTE:

Appeals against a Decision of a Planning Authority may be made to AN BORD PLEANALA within four weeks beginning on the date of this notification. The Appeal must state in full the Grounds of Appeal and the Reasons. Considerations and Arguments on which they are based. The appropriate Fee must also be enclosed. (See attached Schedule of Fees).

Appeals must be received by an Bord Pleanala at the following address :-

An Bord Pleanala  
64 Marlborough Street,  
Dublin 1

ANY APPEAL NOT ACCOMPANIED BY THE APPROPRIATE FEE WILL BE INVALID.



WATERFORD COUNTY COUNCIL

REF. NO. PD 02/681

RE: Permission to Construct a Building to Contain a Composting Facility & Ancillary Works at Kilmolash & Woodstock, Cappoquin, Co. Waterford.

CONDITIONS & REASONS FOR CONDITIONS

1. The proposed development shall be set out in accordance with the plans and particulars submitted to the Planning Authority on 12 July 2002 except for any stipulations specified in this decision.

**Reason: In the interests of planning control**

2. The use of the proposed development shall be as specified in the public notice and on the submitted floor plans. The nature and scale of activities shall be as indicated in particulars received on 12/7/2002 (and further information on 12/9/2002). Any change of use, intensification of use or scaling up of activities shall be subject of a further planning application.

**Reason: To regulate and control the scale of the development**

3. The roof and external walls shall be constructed of green PVC cladding.

**Reason: In the interests of visual amenity**

4. The site periphery shall be planted by the applicant to create a mixed deciduous/evergreen screen between the public road to south and north of the site. The scheme of screen planting shall be in a belt of at least 4m in width of appropriate species of fast growing/semi mature trees and shrubs and shall be carried out in the first planting season after the final grant of planning permission.

**Reason: In the interests of visual amenity and to screen the proposed development in the interest of protecting and improving the amenities of the area.**

- 5a) The entrance shall be located such that clear and unobstructed sight lines are available from a point 2.0 m. back from the edge of the metalled surface of the roadway at the centre of the entrance for a distance of 55m. in each direction to a point on the roadway 2m. from the edge of the nearside metalled surface. The appropriate eye and object heights of 1.05m. & 0.15m. respectively shall be used. The road boundary fence shall be set back behind the sightlines so as to accommodate this requirement.
- 5b) Road and wing walls shall be constructed of sod & stone, dry stone, stone faced masonry or natural stone and mortar.



WATERFORD COUNTY COUNCIL

REF. NO. PD 02/681

RE: **Permission to Construct a Building to Contain a Composting Facility & Ancillary Works at Kilmolash & Woodstock, Cappoquin, Co. Waterford.**

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- 5c) Apart from the works required to construct the entrance and achieve the required sightlines, the existing fence shall be retained.
- 5d) Entrance to be so constructed that surface water is not allowed to flow onto the roadway. The necessary gullies and soakaways shall be provided inside the gateway.
- 5e) A proper piped gullet, not less than 300mm. in diameter shall be constructed across the entrance where necessary, before development commences.

Reason : **In the interests of traffic safety.**

6. Haulage of waste along a public road shall be carried out using a watertight container and in a manner which will avoid the creation of a nuisance, disagreeable and unsafe conditions for pedestrians and residents and a traffic hazard for other road users.

Reason: **In the interests of the common good**

7. Before development commences, the developer shall make a contribution to the Planning Authority of **e2,000** index linked to the Cost of Building Index base dated 1/1/97 in cognisance of the nature of the proposed development and the increased wear and tear of the road network resulting therefrom.

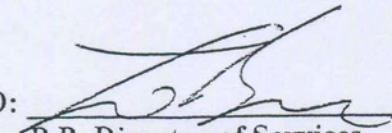
Reason: **It is considered reasonable that the developer makes a contribution towards the maintenance of the road network in the area.**

8. Prior to the commencement of any development, an application for a waste permit licence as per the Waste Management (Permit) Regulations 2000 shall be obtained from Waterford County Council.

Reason: **In accordance with the Waste Management Act 1996**

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SIGNED:

  
P.P. Director of Services.

DATE: 26<sup>th</sup> September 2002





## Waterford County Council

Permit Issued Under Waste Management Act 1996  
and S.I. 165 1998

Permit Number	WP / 05 / 2004
Permitting Authority	Waterford County Council
Permit Holder	Molasin Compost Ltd.
Address of Address of Permit Holder	Killmolash Cappoquin Co Waterford
Address of Operation Covered By Permit	As Permit Holders address
Date of Issue	11 <sup>th</sup> May 2004

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## 1. Scope of Permit

- 1.1 This permit is issued to Molaisin Compost Ltd. for the recovery of material at a Facility at Kilmolash, Cappoquin, Co. Waterford. This permit supersedes permit WP/05/2003 issued on 6<sup>th</sup> October 2003 to William and Caroline O' Brien, Kilmolash, Cappoquin, Co. Waterford.
- 1.2 For the purpose of this permit, the facility is the area of land outlined in red on the Site Location drawing as submitted in January 2004 as part of the application. Any reference in this Permit to "facility" shall mean the area outlined in red.
- 1.3 The Permit Holder shall not alter the infrastructure of the Permitted Facility in such a manner so as to lead to a breach of any of the provisions of this Permit.
- 1.4 This Permit shall be operated in compliance with Planning Permission (Ref. No. PD.02/681), the Waste Management Act 1996, the Waste Management (Permit) Regulations 1998 (SI No. 165 1998) and all other relevant current and future legislation.
- 1.5 This Waste Permit is for the purpose of Waste Permitting under the Waste Management Act 1996 only and nothing in this permit shall be construed as negating the permit holders statutory obligations or requirements under any other enactments or regulations.
- 1.6 This Permit shall be valid:
- 1.6.1. For a period of three years from the date of issue.
- 1.7 This Permit is issued for the recovery of the Waste detailed in Table 1.1. The annual limits for each material shall be those given in Table 1.1.

Waste Description	EWIC Code
Sludge's from on site effluent treatment from preparation of meat, fish and foods of animal origin if it fulfils the requirements of SI 267 of 2001 Waste Management ( Use of Sewage Sludge in Agriculture) Regulations, 1998 to 2001 without prejudice to SI 248 of 2003 European Communities ( Animal By-products) Regulations, 2003.	02 02 04
Sludges from on-site effluent treatment if it complies with the requirements of SI 267 of 2001 Waste Management ( Use of Sewage Sludge in Agriculture) Regulations, 1998 to 2001 without prejudice to SI 248 of 2003 European Communities ( Animal By-products) Regulations, 2003.	02 03 05
Sludge's from Dairy Products Industry if it complies with the requirements of SI 267 of 2001 Waste Management ( Use of Sewage Sludge in Agriculture) Regulations, 1998 to 2001 without prejudice to SI 248 of 2003 European Communities ( Animal By-products) Regulations, 2003.	02 05 02
Sludges from on-site effluent treatment if it complies with the requirements of SI 267 of 2001 Waste Management ( Use of Sewage Sludge in Agriculture) Regulations, 1998 to 2001 .	02 06 03
Wastes from washing, cleaning and mechanical reduction of raw materials	02 07 05
De-inking sludges from paper recycling if it complies with the requirements of SI 267 of 2001 Waste Management ( Use of Sewage Sludge in Agriculture) Regulations, 1998 to 2001	03 03 05



- 1.11 Every plan, programme or proposal submitted to the Permitting Authority for its agreement pursuant to any Condition of this Permit shall include a proposed timescale for its implementation. The Permitting Authority may modify or alter any such plan, programme or proposal in so far as it considers such modification or alteration to be necessary and shall notify the Permit Holder in writing of any such modification or alteration. Every such plan, programme or proposal shall be carried out within the timescale fixed by the Permitting Authority but shall not be undertaken without the agreement of the Permitting Authority. Every such plan, programme or proposal agreed by the Permitting Authority shall be covered by the conditions of this Permit.
- 1.12 Wastes shall be accepted at the facility only from persons who are holders of a waste permit or are exempted under the Waste Management ( Collection Permit ) Regulations 2001

**REASON:** To clarify the scope of this licence.

## 2. Management of facility

- 2.1 Suitable arrangements shall be made to ensure that illegal dumping of materials cannot take place at any time.
- 2.2 Facility Management
- 2.2.1 The Permit Holder 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.
- 2.2.2 The Permit Holder 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 Permit.
- 2.3 Management Structure
- 2.3.1 Within two months from the date of grant of this Permit, the Permit Holder shall submit written details of the management structure of the facility to the Permitting Authority. Any proposed replacement in the management structure shall be notified in advance in writing to the Permitting Authority. Written details of the management structure shall include the following information.
- the names of all persons who are to provide the management and supervision of the waste activities authorised by the Permit, in particular the name of the facility manager and any nominated deputies;
  - details of the responsibilities for each individual named under a) above; and
  - details of the relevant education, training and experience held by each of the persons nominated under a) above.
- 2.4 Environmental Management System (EMS)
- 2.4.1 The Permit Holder shall establish and maintain an EMS. Within twelve months from the date of grant of this Permit, the Permit Holder shall submit to the Permitting



authority for its agreement proposal for a documented Environmental Management System (EMS) for the facility. Following the agreement of the Permitting Authority, the Permit Holder shall establish and maintain such a system. The EMS shall be updated on an annual basis with amendments being submitted to the Permitting Authority for its agreement.

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

2.4.2.1 Schedule of Environmental Objectives and Targets

The objectives should be specific and the targets measurable. The Schedule shall address a three-year period as a minimum. The Schedule shall include a time-scale for achieving the objectives and targets.

2.4.2.2 Environmental Management Plan (EMP)

The EMP shall include, as a minimum, the following:

- i) methods by which the objectives and targets will be achieved and the identification of those responsible for achieving those objectives and targets.

2.4.2.3 Corrective Action Procedures

The Corrective Action Procedures shall detail the corrective actions to be taken should any of the procedures detailed in the EMS not be followed.

2.4.2.4 Awareness and Training Programme

The Awareness and Training Programme shall identify training needs, for personnel who work on or have responsibility for the Permitted facility.

2.5 Communications Programme

2.5.1 Within two months of the date of grant of this Permit, the Permit Holder shall establish and maintain a Communications Programme to inform and involve the local community and ensure that members of the public can obtain information at the facility, at all reasonable times, concerning the environmental performance of the facility.

2.6 The Permit Holder shall inform the Permitting Authority immediately of any change in the ownership of the Facility referred to in this Permit or any other material facts that could affect the compliance with the terms of this Permit.

2.7 The Permit Holder shall have available at all times at the Permitted Facility a copy of the current Waste Permit and all records that are required to be kept as defined in Section 10.

2.8 The Permit Holder shall, at all times, provide free and unhindered access to its Facility to any authorised representative of Permitting Authority, or any persons nominated by the Permitting Authority, for the carrying out of such inspections, monitoring, reviewing of records and any other investigations that the Permitting Authority deems necessary.

**REASON:** To make provision for the proper management of the activity on a planned basis having regard to the desirability of ongoing assessment, recording and reporting of matters affecting the environment.



### 3. Facility infrastructure

- 3.1 The Permit Holder shall have completed any infrastructure changes proposed in the Permit Application dated the 13<sup>th</sup> December 2002 prior to commencing of operations on the site.
- 3.2 Within three months from the date of grant of this permit stock proof fencing and security gates shall be installed and maintained around the facility boundary.

The Permit Holder 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 five working days.

The Permit Holder shall ensure that the Facility is kept locked at all times when not in use.

- 3.3 All 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 been undertaken.
- 3.4 Following the completion of all Engineering works, the Permit Holder shall complete a construction quality assurance validation. The validation report shall be made available to the Permitting Authority on request. The report shall include the following information:
- a) a description of the works;
  - b) as-built drawings of the works;
  - c) records and results of all tests carried out (including failures);
  - d) drawings and sections showing the location of all samples and tests carried out;
  - e) daily record sheets/diary;
  - f) name(s) of contractor(s) individual(s) responsible for undertaking the engineering works;
  - g) name(s) of individual(s) responsible for supervision of works and for quality assurance validation of works;
  - h) records of any problems and the remedial works carried out to resolve those problems; and
  - i) any other information requested in writing by the Permitting Authority.

#### 3.5 Facility Notice Board

3.5.1 The Permit Holder 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.

3.5.2 The board shall clearly show:

- a) the name and telephone number of the facility;
- b) the name of the Permit holder;
- c) an emergency out of hours contact telephone number;
- d) the Permit reference number; and
- e) where and when environmental information relating to the facility can be obtained.

3.6 The Permit Holder shall ensure that all surfaced areas where contaminated surface water or process water arise are impermeable.

3.7 The permit holder shall carry out all facility operations in the areas specified by the Proposed Facility drawing, drawing 1, submitted with the application.

3.8 Tank and Drum Storage Areas



- 3.8.1 With the exception of water storage tanks, all tank and drum storage areas shall be rendered impervious to the materials stored therein.
- 3.8.2 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:
- (a) 110% of the capacity of the largest tank or drum within the bunded area; or
  - (b) 25% of the total volume of substance that could be stored within the bunded area.
- 3.8.3 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.8.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 3.8.5 The integrity and water tightness of all the storage tanks, sumps and bunds and their resistance to penetration by water or other materials stored therein shall be confirmed by the Permit Holder and shall be reported to the Permitting Authority. This confirmation shall be completed within six months of the date of grant of this Permit and at least once every three years thereafter and reported to the Permitting Authority on each occasion or following the installation of any new bunds and prior to their use as a storage area.
- 3.9 The process building shall be constructed so that all doors shall be close fitting and personnel doors shall be fitted with self-closing mechanisms. Doors other than personnel doors shall have closing mechanisms fitted such that collection/delivery vehicles or personnel cannot over-ride them and leave doors open during these services.

The Permit Holder shall ensure that all doors of buildings/structures on-site remain shut where practically possible.

### 3.10 Surface Water Management

- 3.10.1 Within two months of the date of grant of this Permit effective surface water management infrastructure shall be provided and maintained at the facility. As a minimum, the infrastructure shall consist of the following:
- a) a rainwater collection and drainage system for all buildings on-site and this shall include the diversion of all roof water and run-off from all non-contaminated impervious areas of the site;
  - b) the system shall be designed so as no contaminated water may enter the surface water drainage system;
  - c) the system may be designed so as rainwater may be diverted to the on-site water storage tanks for use in the process; and
  - d) all clean surface water collected at the facility shall be discharged to the stream at a location to be agreed with the Permitting Authority (SW-1).

### 3.11 Process Water Management

- 3.11.1 Effective process water management infrastructure shall be provided and maintained at the facility. As a minimum, the infrastructure shall be capable of the following:
- a) the collection of all process water and any contaminated water that may arise at the facility and drainage to the on-site storage tanks/sumps;
  - b) The screening of all process water prior to entering any enclosed drain/pipe;



c) The maintenance of a freeboard of at least 1m on all process water storage tanks; and,

d) The installation of high level alarms on all of the process water storage tanks.

3.11.2 Unless otherwise agreed and within twelve months of the date of grant of this permit, the Permit Holder shall ensure that all process water storage tanks are fully enclosed.

### 3.12 Telemetry systems

3.12.1 Within nine months of the date of grant of this Permit a telemetry system shall be installed and maintained at the facility. All facility operations linked to the telemetry system shall also have a manual control that 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 following information:

- (i) temperature and oxygen content of the compost at all stages during its production;
- (ii) the level of liquid in all of the on-site storage tanks/sumps;
- (iii) dissolved oxygen levels in process water storage tanks; and
- (iv) odour abatement control parameters to be agreed with the Permitting Authority to be measured following the installation of the odour abatement system.

### 3.13 Monitoring Infrastructure

#### 3.13.1 Groundwater

(i) Within nine months from the date of grant of this Permit, the Permit Holder shall provide three monitoring point(s) (upgradient and downgradient of the facility) to allow for the sampling and analysis of groundwater as set out in table 8.2.

#### 3.13.2 Replacement of Infrastructure

(i) Monitoring infrastructure which is damaged or proves to be unsuitable for its purpose shall be replaced within three months of it being damaged or recognised as being unsuitable.

3.14 The Permit Holder shall ensure that all tanks, machinery and equipment are maintained. In so far as to ensure no spillages, leaks, explosions or risk to the environment.

3.15 The Permit Holder shall ensure that no obstruction is caused to any drains or watercourses. Under no circumstances will any work or filling be undertaken on the site that would result in the flooding of the nearby public carriageways or any adjoining properties.

REASON: To provide appropriate infrastructure for the protection of the environment.



#### 4. Restoration and aftercare

- 4.1 In the event of this Permit being revoked or a new Permit not being issued on the expiration of this Permit, whether by way of the Permit Holder not applying for a new Permit or the Permitting Authority not granting a new Permit, the Permit holder shall immediately cease the recovery of material at the facility.
- 4.2 Following the termination, or planned cessation of use or involvement of all or part of the site in the permitted facility, the permit holder, in a manner to be approved by the Permitting Authority, shall decommission, render safe or remove for disposal/recovery, any soil, subsoil's, buildings, plant or equipment, or any waste, materials or substances or other matter contained therein or thereon, that may result in environmental pollution.

**REASON:** To provide for decommissioning of the facility and aftercare of the facility on which the facility is located.

#### 5. Facility operation and waste management

- 5.1 On-site deliveries of wastes and raw materials shall be confined to the hours of 08.00 and 19.00 hours Monday to Friday, and between 08.00 and 13.00 hours on Saturday. There shall be no on-site delivery of wastes or raw materials on Sundays or Bank Holidays.
- 5.2 Waste Acceptance
  - 5.2.1 All wastes accepted at the facility shall be in fully covered trailers/containers.
  - 5.2.2 Within two months of the date of grant of this Permit, the licensee shall implement procedures at the facility for the inspection of incoming waste so as to ensure that unauthorised waste or foreign bodies are not present in the waste.
  - 5.2.3 The Permit Holder shall implement procedures to ensure that waste accepted at the facility is processed as soon as possible after its arrival at the facility.
  - 5.2.4 Any waste deemed unsuitable for processing at the facility and/or in contravention of this Permit shall be immediately separated and removed from the facility at the earliest possible time to an appropriate facility agreed with the Permitting Authority. Temporary storage of such wastes shall be in fully enclosed containers to avoid putrefaction, odour generation, the attraction of vermin and any other nuisance or objectionable condition.
  - 5.2.5 All waste imported into/exported from Ireland shall have the appropriate documentation.
  - 5.2.6 Waste shall only be accepted at the facility, from customers who are holders of a Waste Permit under the Waste Management (Collection Permit) Regulations 2001 where required.
  - 5.2.7 Prior to the acceptance of any sludges from any source a full analysis of the sludge shall be submitted to Waterford County Council. All sludges shall comply with Part 2 of the Schedule to the Waste Management (Use of sewage sludge in agriculture) Regulations 1998 to 2001. The sludge from each source shall subsequently be tested monthly and the results submitted to the Permitting Authority.
- 5.3 Operational controls
  - 5.3.1 All entry and exit doors to the biowaste and sludge reception buildings shall be on automatic open/close switches in order to minimise the time spent open



5.3.2 The floor of the preparation area shall be cleaned of waste on a daily basis.

5.3.3 All shredding and screening shall be carried out indoors.

#### 5.4 Compost Quality

5.4.1 Compost of class 1 standard shall be considered a product. Class 1 compost shall meet the requirements of *Schedule A – Compost Quality*.

5.4.2 The recovery or disposal of compost not reaching the standards designated Class 1 shall be recorded as required under Condition 10.2.

#### 5.5 Process Management and Validation

5.5.1 All composting processes shall be executed in line with the treatment regimes outlined in *Schedule B: Process Management* of this permit.

5.5.2 An indicator organism shall be used to validate the compost sanitation steps. This shall be carried out as outlined in *Schedule B: Process Management* of this permit.

5.6 The acceptance and handling of animal by-product waste shall be in line with written procedures submitted to the permitting authority on 25/03/04. In addition

1. Vehicles delivering animal by-product waste to the facility shall be leak-proof and adequately covered.
2. Containers and vehicles used for transporting untreated animal by-product waste shall be cleaned and disinfected prior to leaving the facility. They shall be cleaned and disinfected to prevent contamination of treated products.
3. All composting residues including process water shall be handled in such a way as to prevent recontamination from untreated products.
4. Composting bays shall be designated and labeled so as to ensure that animal by-product waste is treated in the same designated bays, in so far as is practicable.

These procedures shall be updated prior to the acceptance of new waste types ( when necessary ) as required to reflect changes in National or EU Legislation or as agreed by the permitting Authority.

#### 5.7 Compost use

5.6.1 Compost of Class 1 Standard shall be considered a product. All landspreading of compost of Class 1 standard shall be in accordance with best agronomic practice.

5.6.2 All landspreading of compost containing sludge as a constituent shall be carried out in accordance with the Waste Management ( Use of Sewage Sludge in Agriculture ) Regulations, 1998-2001

#### 5.8 Facility controls

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

5.7.2 The Permit Holder shall provide and use adequate lighting during the operation of the facility in hours of darkness.

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

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



- 5.7.5 All process water storage tanks shall be aerated on a continuous basis following the installation of aerators in the tanks.
- 5.9 Unless otherwise agreed by the Permitting Authority, all process water that is not re-used on-site shall be tankered off-site in fully enclosed road tankers to a wastewater treatment plant agreed in advance with the Permitting Authority.
- 5.10 Maintenance
- 5.9.1 All treatment/abatement and emission control equipment shall be calibrated and maintained, in accordance with the instructions issued by the manufacturer/supplier or installer. Written records of the calibrations and maintenance shall be made and kept by the Permit Holder.
- 5.9.2 The Permit Holder shall maintain and clearly label and name all sampling and monitoring locations.
- 5.9.3 The process water and surface drainage systems shall be inspected twice weekly and cleaned as required. Silt, stones and other accumulated material shall be removed as required to ensure the free movement of water in the systems.

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

## 6 Emissions

- 6.7 Activities on site shall not give rise to noise levels at the boundary of the facility that exceed the following sound pressure limits (Leq, 30 min).

Day time (0800hrs-2200hrs)	55 dBA
Night time (2200hrs-0800hrs)	45 dBA

There shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at any noise sensitive location. Monitoring of noise shall take place annually.

- 6.8 Dust emissions from the site shall not exceed 350 mg/m<sup>2</sup>/day (That is, a 30 day composite sample with the result expressed as mg/m<sup>2</sup>/day) on or outside the boundary of the site.

Testing for dust emissions shall take place biannually at four specified monitoring locations on the boundary of the site (monitoring locations to be submitted to the permitting authority for approval). The test results shall be submitted to the permitting authority within two weeks of the tests being carried out.

- 6.9 Air Emission Limits from the Biofilter shall be as follows:

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



6.10 There shall be no emission to the atmosphere of environmental significance. The Permit Holder shall ensure that all operations on-site shall be carried out in a manner such that air emissions including dust and/or odours and/or noise do not result in significant impairment of or significant interference with amenities or the environment beyond the site boundary.

#### 6.11 Emissions to Surface Water

6.11.1. The trigger levels (the achievement or exceedance of a parameter level which requires certain actions to be taken by the Permit Holder) for surface water discharges from the facility measured at monitoring point SW-1 are:

- a) BOD 25mg/l                      b) Suspended Solids 35 mg/l

6.11.2. No process water or contaminated surface water shall be discharged to surface waters.

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

6.11.4. Following the completion of the surface water management infrastructure required by Condition 3.10, there shall only be one surface water discharge from the facility, i.e. SW-1.

6.12 The Permit Holder shall ensure that all vehicles entering or leaving the Permitted Facility are clean and do not deposit any foreign material on the roadway.

6.13 The Permit Holder shall be responsible for maintaining the cleanliness of the approach roads to the Facility for a distance of 600m of the Facility entrance.

6.14 The Permit holder shall be deemed liable for any damage to public roads caused as a result of the activities at the Facility.

**REASON:** To control emissions from the facility and provide for the protection of the environment.

#### 7 Nuisance

7.1 The Permit Holder shall ensure that vermin, birds, flies, mud, dust, litter and odours do not give rise to nuisance at the facility or in the immediate area of the facility. Any method used by the Permit Holder to control any such nuisance shall not cause environmental pollution

7.2 The Permit Holder shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered.

7.3 No waste shall be burnt at the facility.

7.4 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.

**REASON:** To provide for the control of nuisances.



### 8 Monitoring

- 8.1 The Permit Holder shall carry out such monitoring and at such locations and frequencies as set out in condition 8.4, 8.7, 8.9, 8.10, 8.11, 8.12, 8.13 and 8.14, of this Permit and as specified in this Permit. Unless otherwise specified by this Permit, all environmental monitoring shall commence no later than four months after the date of grant of this Permit.
- 8.2 The Permit Holder shall amend the frequency, locations, methods and scope of monitoring as required by this Permit only upon the written instruction of the Permitting Authority and shall provide such information concerning such amendments as may be requested in writing by the Permitting Authority. Such alterations shall be carried out within any timescale nominated by the Permitting Authority.
- 8.3 Monitoring and analysis equipment shall be operated and maintained in accordance with the manufacturers' instructions (if any) so that all monitoring results accurately reflect any emission, discharge or environmental parameter.
- 8.4 The surface water discharge point SW1 (SW1 location to be agreed with the Permitting Authority) shall be tested, by the Permit Holder using an independent reputable laboratory, for the parameters indicated in *Table 8.1*.

The Permit Holder shall carry out a weekly Visual Inspection at monitoring location SW1. A sample shall be taken and examined for colour and odour of the water. The Permit Holder shall record the weekly results.

Parameter	Analysis Method/Technique
PH	PH electrode/meter and recorder
Electrical Conductivity	Conductivity Probe
Dissolved Oxygen	DO meter/recorder
Temperature (°C)	Temperature probe with recorder
Suspended Solids	Standard Methods
Biochemical Oxygen Demand	Standard Methods
Chemical Oxygen Demand	Standard Methods
Nitrates	Standard Methods
Total Phosphorus (as P)	Standard Methods
Ammonia	Standard Methods
Sulphate (as SO <sub>4</sub> )	Standard Methods

Table 8.1

The frequency of testing of the stream at each SW1 for the full list of parameters above shall be quarterly. A report shall be submitted to the Permitting Authority ten days after the end of the period being reported on.

- 8.5 The Permit Holder shall provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Permitting Authority.
- 8.6 The Permit Holder shall monitor the volume of non-process water (e.g. clean rainwater, mains or abstracted surface/ground water) used on site each day and shall provide a daily break down of the source of the water used.
- 8.7 Groundwater shall be monitored by the Permit Holder for the parameters listed in *Table 8.2*



Parameter	Analysis Method/Technique
Groundwater Level	Method to be agreed with the Permitting Authority
PH	PH Probe
COD	Standard Methods
Ammonia	Standard Methods
Nitrates	Standard Methods
Sulphate	Standard Methods
Total Coliforms	Method to be agreed with the Permitting Authority
Faecal Coliforms	Method to be agreed with the Permitting Authority

Table 3.2

The frequency of testing of the Groundwater at each sampling point for the full list of parameters above shall be biannually. A report shall be submitted to the Permitting Authority ten days after the end of the period being reported on.

- 8.8 Subject to the agreement of the well owners, all private wells within 250m of the facility shall be included in the monitoring programme set out in *Table 3.2*, of this Permit.

### 8.9 Meteorological Monitoring

8.9.1 Within four months of the date of grant of this Permit, the Permit Holder shall provide infrastructure at the facility that is capable of monitoring the parameters listed in *Table 3.3* of this Permit. The meteorological data is to be obtained from a location on the facility to be agreed in advance with the Permitting Authority.

Parameter	Monitoring Frequency	Analysis Method/Technique
Temperature (min/max.)	Daily	to be agreed
Wind Direction	Daily	to be agreed
Wind Speed	Daily	to be agreed
Atmospheric Pressure	Daily	to be agreed

Table 3.3

- 8.9.2 Within one month of the date of grant of this Permit, the Permit Holder shall provide a windsock at the facility for the purpose of indicating wind direction. A report in relation to prevalent wind direction at the site shall be submitted to the Permitting Authority one month after the end of the year being reported on.

### 8.10 Compost Quality Monitoring

8.10.1 Compost quality shall be monitored at frequencies set out in *Schedule A: Compost Quality* of this permit.

### 8.11 Composting Process Monitoring

8.11.1 Monitoring of the composting process shall be carried out in respect of the parameters, frequency and methods outlined in *Schedule B*. Monitoring locations to be agreed with the permitting authority.

### 8.12 Dust and Bioaerosol Monitoring



- 8.12.1 Monitoring of dust and bioaerosols shall be carried out in respect of the parameters, frequency and methods outlined in *Schedule D*. Monitoring locations to be agreed with the permitting authority.
- 8.13 Air and Odour Monitoring
  - 8.13.1 Monitoring of air and odour shall be carried out in respect of the parameters, frequency and methods outlined in *Schedule D*. Monitoring locations to be agreed with the permitting authority.
- 8.14 The Permit Holder shall, during the morning on a daily basis, inspect the facility and its immediate surrounds for nuisances caused by litter, vermin, birds, flies, mud, dust and odours. Subjective daily odour assessments shall be carried out by site personnel either prior to, or immediately following their arrival on-site.
- 8.15 The Permit Holder shall carry out regular inspections to ensure that the activities at the Facility are operating in accordance with the conditions of this Permit and that no nuisance is being caused.

**REASON:** To ensure compliance with the conditions of this licence by provision of a satisfactory system of monitoring of emissions.

## 9 Contingency arrangements

- 9.1. Unless otherwise notified in writing by the Permitting Authority, in the event that any monitoring, sampling or observations indicate that an incident has, or may have, taken place, the Permit Holder shall immediately:
- a) identify the date, time and place of the incident;
  - b) carry out an immediate investigation to identify the nature, source and cause of the incident and any emission arising therefrom;
  - c) isolate the source of any such emission;
  - d) evaluate the environmental pollution, if any, caused by the incident;
  - e) identify and execute measures to minimise the emissions/malfunction and the effects thereof; and
  - f) provide a proposal to the Permitting Authority for its agreement within one month of the incident occurring to:
    - i) identify and put in place measures to avoid reoccurrence of the incident.
    - ii) identify and put in place any other appropriate remedial action.
- 9.2. The Permit Holder 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.



### 9.3 Emergencies

- 9.3.1 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.
- 9.3.2 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.
- 9.3.3 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 Permit Holder shall provide an alternative supply of water to those affected.

**REASON:** To ensure compliance with the conditions of this Permit by provision of a satisfactory system of recording and dealing with incidents.

## 10 Records

10.1 The Permit Holder shall maintain records of each load (including any contaminated/process water removed off site) of waste arriving and departing from the facility. The Permit Holder shall record the following:

- a) the date;
- b) the name of the carrier (including if appropriate, the waste carrier registration details);
- c) the vehicle registration number;
- d) the name of the producer(s)/collector(s) of the waste as appropriate;
- e) a description of the waste including the associated EWC codes;
- f) the quantity of the waste, recorded in tonnes;
- g) the name of the person checking the load;
- h) where loads or wastes are removed or rejected, details of the date of occurrence, the types of waste and the facility to which they were removed; and,
- i) CI/TFS documentation where relevant.

### 10.2 Written Records

The Following written records shall be maintained by the Permit Holder:

- a) The types and quantities of waste recovered at the facility each year. These records shall include the relevant EWC Codes;
- b) The quantities of compost produced each year;



- c) copies of compost quality monitoring results for the facility for the preceding twelve months;
- d) all training undertaken by facility staff;
- e) results of all integrity tests of bunds and other structures and any maintenance or remedial work arising from them;
- f) details of all nuisance inspections;
- g) details of all surface water and process water system inspections;
- h) details of all process control parameters that are routinely monitored;
- i) details of all waste materials and finished product that are removed off-site; and
- j) 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.
- k) register of all landspreading of compost containing sewage sludge as per the Waste Management ( Use of Sewage Sludge in Agriculture ) Regulations, 1998-2001.

10.3 The permit holder shall record all complaints of an environmental nature related to the operation of the activity. Each 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 be kept of the response made in the case of each complaint. The permit holder shall submit a report to the Permitting Authority, during the month following the complaints, giving details of any complaints that arise.

**REASON:** To provide for the keeping of proper records of the operation of the facility.

## 11 Reports and notifications

11.1 The Permit Holder shall notify the Permitting Authority immediately it becomes aware of any breach of the terms of this Permit. They shall submit a written report detailing the breaches of the Permit within 3 working days of such breaches occurring.

11.2 The Permit Holder shall submit to the Permitting Authority within 31 days of the end of each year a report for that year giving details:

11.2.1 of the records required in condition 10.1.

These reports are to commence at the end of the first calendar year (i.e. December) after the granting of this Permit. A hard and electronic copy of each report shall be submitted.

11.3 A duly authorised officer of the Permit Holder shall sign all reports.

11.4 All reports required throughout h this Permit shall highlight all results or other items that do not comply with the terms or limits contained in this Permit. If there are, any such breaches or items the Permit Holder shall include in the report their detailed proposals for ensuring that no similar occurrences or breaches occur in the future.

11.5 The Permit Holder shall notify the Permitting Authority within seven days in the event of either the Permit Holder or any of its officers has either:



- 11.5.1 Any requirement imposed on it / them under Section 57 or 58 of the Waste Management Act 1996.
- 11.5.2 Been convicted of any offence under Section 34(5) or 40(7) of the Waste Management Act 1996.
- 11.6 The Permit Holder shall notify the Permitting Authority when the limit on the amount of material accepted at the site is achieved, by way of actual quantity or by way of reaching any permitted levels.
- 11.7 Recording and Reporting shall be carried out as per *Schedule C*.

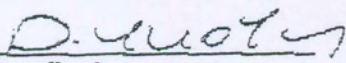
**REASON:** To provide for proper report to and notification of the Permitting Authority.

## 12 Charges and financial provisions

- 12.1 The permit holder shall pay to the Permitting Authority an annual contribution of €2,500 or such sum as the Permitting Authority from time to time determines, towards the cost of monitoring the activity or otherwise in performing any functions in relation to the activity, as the Permitting Authority considers necessary for the performance of its functions under the Waste Management Act, 1996. The permit holder shall in 2004 and subsequent years, not later than January 31 of each year, pay to the Permitting Authority this amount updated in accordance with changes in the Public Sector Average Earnings Index from the date of the Waste Permit to the expiry date. The Permitting Authority shall notify the updated amount to the Permit Holder.
- 12.2 In the event that the frequency or extent of monitoring or other functions carried out by the Permitting Authority needs to be increased the Permit Holder shall contribute such sums as determined by the Permitting Authority to defray its costs.
- 12.3 The permit holder shall hold appropriate levels of insurance for the carrying out of the operation. A copy of these insurances shall be made available on request.

**REASON:** To provide for adequate financing for monitoring and financial provisions for measures to protect the environment and insurance against accident.

Signed,

  
Don Tuohy  
Senior Executive Officer



## SCHEDULE A: Compost Quality

Compost shall be deemed unsatisfactory if more than 25% of samples fail the criteria below. No sample shall exceed 1.2 times the quality limit values set

### 1. Maturity

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:

1. Respiration activity after four days  $AT_4$  is  $\leq 10\text{mg/O}_2/\text{g}$  dry matter or Dynamic Respiration Index is  $\leq 1000\text{mgO}_2/\text{kg VS/h}$ .
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  $20^\circ\text{C}$  above ambient temperature.
4. If no other determination of maturity is made, the compost must be cured for a six month period. In addition offensive odours from the compost shall be minimal for the compost to be deemed mature.
5. Or other maturity tests as may be agreed with the permitting authority.



## 2. Trace Elements <sup>Note 1 & 2</sup>

### Maximum Trace Element Concentration Limits <sup>Note 3</sup>

Parameter (mg/kg, dry mass)	Compost Quality Standard – Class 1 <sup>Note 4</sup>
Cadmium (Cd)	0.7
Chromium (Cr)	100
Copper (Cu)	100
Mercury (Hg)	0.5
Nickel (Ni)	50
Lead (Pb)	100
Zinc (Zn)	200
Polychlorinated Biphenyls (PCB's)	-
Polynuclear Aromatic Hydrocarbons (PAH's)	-
Impurities > 2mm <sup>Note 5</sup>	<0.5%
Gravel and Stones > 5mm <sup>Note 5</sup>	<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 shall be monitored quarterly (on a client by client basis) for the parameters outlined in this table.

**Note 3:** 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 4:** Normalised to 30% organic matter.

**Note 5:** Compost must not contain any sharp foreign matter measuring over 2 mm dimension that may cause damage or injury to humans, animals and plants during or resulting from its intended use.

## 3. Pathogens

Pathogenic organism content must not exceed the following limits:

<i>Salmonella sp.</i>	Absent in 50kg	n=5
Faecal Coliforms	≤ 1000 Most Probable Number (MPN) in 1g	n=5

Where: n=Number of samples to be tested

## 4. Monitoring

The permit holder shall monitor the compost product at least monthly. The permit holder shall submit to the Permitting Authority for its agreement, prior to commencement of the composting operation, details of the sampling protocol, methods of analyses and sample numbers.



**SCHEDULE B : Process Management**

**Table G.1 Composting.** During the composting process the entire quantity of biowaste being composted shall be exposed to the following temperature <sup>Note 1</sup>:

Temperature	Treatment time
At least 60°C	1 week

**Table G2 Category 3 Material.** All Category 3 Animal By-Product Waste shall be exposed to the following processing regime

Temperature	Particle Size	Treatment time
70°C	12mm	60 minutes

**Table G.3 Process validation.** The composting process shall be tested using the following indicator organism <sup>Note 1</sup>.

Indicator Organism	Frequency
<i>Salmonella spp.</i>	Annually <sup>Note 2</sup>

Note 1: Unless otherwise agreed with the permitting authority.

Note 2: This test shall be repeated if major changes to either the composition of the incoming biowaste or the treatment process are made.

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**SCHEDULE C: Recording and Reporting to the permitting authority**

Report	Reporting Frequency	Report Submission Date
Environmental Management System	Annually	Ten months from the date of grant of the permit.
Record of incidents	As they occur	Within five days of the incident.
Air Monitoring ( Biofilter)	Quarterly	One month after completion of the monitoring.
Surface water monitoring	Quarterly	Ten days after end of quarter being reported on.
Noise and groundwater monitoring	Annually	Ten days after end of year being reported on.
Compost quality monitoring	Quarterly	Ten days after end of quarter being reported on.
Dust / Bioaerosol monitoring	Annually	One month after completion of the monitoring.
Any other monitoring	As they occur	Within ten days of obtaining results.

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**SCHEDULE D: Monitoring****D1: Monitoring of composting process**

Parameter	Monitoring Frequency	Monitoring equipment / method
• Aerated static piles Temperature vs. time	Continuous	Temperature probe / recorder
• Compost Maturation ( curing ) piles Temperature Moisture	Daily Daily	Temperature probe Subjective by operator
• Compost storage piles Temperature	Weekly	Temperature probe

**D2: Dust and Bioaerosol Monitoring Frequency and Technique**

Parameter	Monitoring Frequency	Analysis Method / Technique
PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	Annually	See <sup>Note 4</sup>
Aspergillus fumigatus	Annually	Grab sample <sup>Note 3</sup>
Mesophilic bacteria	Annually	Grab sample <sup>Note 3</sup>
Dust Deposition ( $\text{mg}/\text{m}^2/\text{day}$ )	Quarterly	Standard Method <sup>Note 1</sup>

Note 1: Standard method VDI2119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute).

Note 2: Twice during the period May to September

Note 3: Enumeration of colonies to be carried out as described in 'Standardised Protocol for the Sampling and Enumeration of Airborne Microorganisms at composting Facilities' the UK Composting Association 1999

Note 4: As described in prEN12341 'Air Quality-field test procedure to demonstrate reference equivalence of sampling methods for PM<sub>10</sub> fraction of particulate matter' or an alternative to be agreed with the permitting authority.



**D3 Air and odour monitoring** <sup>Note 1.</sup>**Biofilter**

Parameter	Monitoring Frequency	Analysis Method / Technique
<b>Bed Media</b>		
Odour assessment <sup>Note 2</sup>	Daily	Subjective Inspection
Condition and depth of biofilter <sup>Note 3</sup>	Daily	Visual Inspection
Moisture content	Bi-annually	Standard laboratory method
PH	Bi-annually	PH probe
Ammonia	Bi-annually	Standard laboratory method
Total viable counts	Bi-annually	Standard laboratory method
<b>Inlet and Outlet Gas</b>		
Ammonia	Bi-annually	Colourimetric Indicator Tubes
Hydrogen Sulphide	Bi-annually	Colourimetric Indicator Tubes
Mercaptans	Bi-annually	Colourimetric Indicator Tubes

**Note 1:** 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 with the permitting authority 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 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.