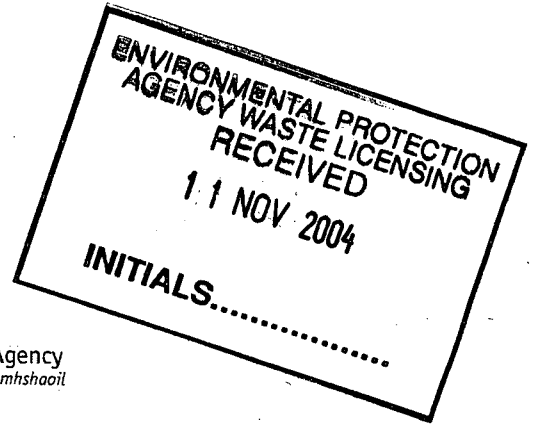




Environmental Protection Agency  
An Ghníomhaireacht um Chaomhnú Comhshaoil



# Waste Licence Application Form

EPA Ref. N<sup>o</sup>:  
*(Office use only)*

212 - 1

*This document does not purport to be and should not be considered a legal interpretation of the provisions and requirements of the Waste Management Acts 1996 to 2003.*

**Environmental Protection Agency**  
P.O.Box 5000, Johnstown Castle Estate, County Wexford  
Telephone: 053-60600 Fax: 053-60699

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*WASTE Application Form*

**Environmental Protection Agency**

Application for a Waste Licence

**WASTE MANAGEMENT ACTS 1996 to 2003**

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**CHECKLIST**

Articles 12 and 13 of the Waste Management (Licensing) Regulations, 2004 (S.I. No. 395 of 2004) set out the information which must, in all cases, accompany a waste licence application. In order to ensure that the application fully complies with the legal requirements of Articles 12 and 13 of the 2004 Regulations, all applicants should **complete** the following.

In each case, refer to the attachment number(s) of your application which contain(s) the information requested in the appropriate sub-article.

**Article 12(1)** In the case of an application for a waste licence, the application shall -

- (a) give the name, address and, where applicable, any telephone number and telefax of the applicant (and, if different, the operator of the facility concerned), the address to which correspondence relating to the application should be sent and, if the applicant or operator is a body corporate, the address of its registered office or principal office,

<b>LOCATION</b>	B.1 of WL Application Form		
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>	

- (b) give the name of the planning authority in whose functional area the relevant activity is or will be carried on,

<b>LOCATION</b>	B.3 of WL Application Form		
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>	

- (c) in the case of a discharge of any trade effluent or other matter (other than domestic sewage or storm water) to a sewer of a sanitary authority, give the name of the sanitary authority in which the sewer is vested or by which it is controlled,

<b>LOCATION</b>	Not Applicable		
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>	

- (d) give the location or postal address (including where appropriate, the name of the townland or townlands) and the National Grid reference of the facility or premises to which the application relates,

<b>LOCATION</b>	B.2 of WL Application Form		
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>	

- (e) describe the nature of the facility or premises concerned, including the proposed capacity of the facility or premises, and in the case of application in respect of a landfill of waste, the requirements specified in Annex 1 of the Landfill Directive,

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<b>LOCATION</b>	EIS - Section 2	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(f) specify the class or classes of activity concerned, in accordance with the Third and Fourth Schedules of the Act, and in the case of an application in respect of the landfill of waste, specify the class of landfill in accordance with Article 4 of the Landfill Directive,

<b>LOCATION</b>	B.7 of WL Application Form	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(g) specify, by reference to the relevant European Waste Catalogue codes as presented by Commission Decision 2000/532/EC of 3 May 2000, the quantity and nature of the waste or wastes which will be treated, recovered or disposed of,

<b>LOCATION</b>	EIS - Section 2.2.2	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(h) specify the raw and ancillary materials, substances, preparations, fuels and energy which will be utilised in or produced by the activity,

<b>LOCATION</b>	G of WL Application Form & EIS - Section 2	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(i) describe the plant, methods, processes, ancillary processes, abatement, recovery and treatment systems and operating procedures for the activity,

<b>LOCATION</b>	EIS - Section 2	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(j) provide information for the purpose of enabling the Agency to make a determination in relation to the matters specified in paragraphs (a) to (g) of section 40(4) of the Act,

<b>LOCATION</b>	L of WL Application Form	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

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(k) give particulars of the source, location, nature, composition, quantity, level and rate of emissions arising from the activity and, where relevant, the period or periods during which such emissions are made or are to be made,

<b>LOCATION</b>	E of WL Application Form & EIS - Section 3		
<b>CHECKED</b>	<b>Applicant</b>	<input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(l) give details, and an assessment of the effects, of any existing or proposed emissions on the environment, including any environmental medium other than those into which the emissions are, or are to be made, and of proposed measures to prevent or eliminate or, where that is not practicable, to limit or abate such emissions,

<b>LOCATION</b>	EIS - Section 3		
<b>CHECKED</b>	<b>Applicant</b>	<input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(m) identify monitoring and sampling points and indicate proposed arrangements for the monitoring of emissions and the environmental consequences of any such emissions,

<b>LOCATION</b>	EIS - Section 3 & 4		
<b>CHECKED</b>	<b>Applicant</b>	<input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(n) describe any proposed arrangements for the prevention, minimisation and recovery of waste arising from the activity concerned,

<b>LOCATION</b>	EIS - Section 2		
<b>CHECKED</b>	<b>Applicant</b>	<input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(o) describe any proposed arrangements for the off-site treatment or disposal of solid or liquid wastes,

<b>LOCATION</b>	EIS - Section 2		
<b>CHECKED</b>	<b>Applicant</b>	<input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(p) describe the existing or proposed measures, including emergency procedures, to prevent unauthorised or unexpected emissions and minimise the impact on the environment of any such emission,

<b>LOCATION</b>	J of WL Application Form & EIS - Section 3		
<b>CHECKED</b>	<b>Applicant</b>	<input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

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(q) describe the proposed measures for the closure, restoration, remediation or aftercare of the facility concerned, after the cessation of the activity in question,

<b>LOCATION</b>	K of WL Application Form	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(r) in the case of an application in respect of the landfilling of waste, give particulars of -

(i) such financial provision as is proposed to be made by the applicant, having regard to the provisions of Articles (7)(i) and (8)(a)(iv) of the Landfill Directive and section 53(1) of the Act, and

<b>LOCATION</b>	Not Applicable	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(ii) such charges as are proposed or made, having regard to the requirements of section 53A of the Act,

<b>LOCATION</b>	Not Applicable	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(s) state whether the activity is for the purposes of an establishment to which the European Communities (Control of Major Accident Hazards involving Dangerous Substances) Regulations, 2000 (S.I. No. 476 of 2000) apply,

<b>LOCATION</b>	B.8 of WL Application Form	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(t) in the case of an activity which gives rise or could give rise to an emission into an aquifer containing the List I and II substances specified in the Annex to Council Directive 80/68/EEC of 17 December 1979, describe the existing or proposed arrangements necessary to give effect to Articles 3,4,5,6,7,8,9 and 10 of the aforementioned Council Directive,

<b>LOCATION</b>	Not Applicable	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

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(u) include a non-technical summary of information provided in relation to the matters specified in paragraphs (a) to (t) of this sub-article,

<b>LOCATION</b>	A of WL Application Form	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

**Article 12(4)** Without prejudice to Article 13(1) and (2), an application for a licence shall be accompanied by -

(a) a copy of the relevant page of the newspaper or newspapers in which the notice in accordance with article 6 has been published,

<b>LOCATION</b>	B.6 of WL Application Form	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(b) a copy of the text of the notice or notices erected or fixed in accordance with article 7,

<b>LOCATION</b>	B.6 of WL Application Form	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(c) where appropriate, a copy of the notice given to a local planning under article 9,

<b>LOCATION</b>	B.3 of WL Application Form	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(d) a copy of such plans, including a site plan or plans and location map or maps, and such other particulars, reports and supporting documentation as are necessary to identify and describe, as appropriate -

(i) the position of the notice in accordance with article 7,

<b>LOCATION</b>	B.6 of WL Application Form	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(ii) the point or points from which emissions are made or are to be made, and

<b>LOCATION</b>	EIS - Section 4	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

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(iii) the point or points at which monitoring and sampling are undertaken or are to be undertaken,

<b>LOCATION</b>	EIS - Section 4		
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>	

(e) such fee as is appropriate having regard to the provisions of articles 40 and 41.

<b>INCLUDED Y/N</b>	Y		
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>	

**Article 12(5)(a)** An application by a local authority in respect of the carrying on of an activity at a facility within the functional area of the authority shall be accompanied by 2 copies of the application and of all accompanying documents and particulars as required under sub-article (4).

<b>PROVIDED Y/N</b>	Not Applicable		
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>	

**Article 12(5)(b)** An application other than one to which paragraph (a) refers shall be accompanied by 3 copies of the application or such other number of copies as the Agency shall determine and of all accompanying documents and particulars as required under sub-article (4).

<b>PROVIDED Y/N</b>	Y		
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>	

**Article 12(5)(c)** For the purposes of paragraphs (a) and (b), all or part of the necessary copies of the said application and associated documents and particulars may, with the agreement of the Agency, be submitted in a computer or other non-legible format specified by the Agency.

<b>CD version as PDF files PROVIDED? Y/N</b>	Y		
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>	

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**Article 13**

Where a development requires an Environmental Impact Assessment to be carried out, 3 copies of the environmental impact statement plus 11 copies on CD should accompany this application.

EIA REQUIRED? Y/N	Y
CHECKED	Applicant <input checked="" type="checkbox"/> Official <input type="checkbox"/>
3 HARD COPIES OF EIS INCLUDED? Y/N	Y
CHECKED	Applicant <input checked="" type="checkbox"/> Official <input type="checkbox"/>
11 CD versions of EIS, as PDF files, PROVIDED? Y/N	Y
CHECKED	Applicant <input checked="" type="checkbox"/> Official <input type="checkbox"/>

**Article 13 (6)**

Notwithstanding the requirements of sub-articles (1) and (2), all or part of 3 copies of the environmental impact statement may, with the agreement of the Agency, be submitted in a computer or other non-legible format specified by the Agency.

CD version PROVIDED? Y/N	Y
CHECKED	Applicant <input checked="" type="checkbox"/> Official <input type="checkbox"/>

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**SECTION B GENERAL****B.1 Applicant's Details****Name\*:** Advanced Environmental Solutions(Ireland) Ltd.**Address:** Unit 1 Monread Commercial Park

Monread Road

Naas

Co. Kildare

**Tel:** 045 843800**Fax:** 045 981621**e-mail:** info@aesirl.ie

\* This should be the name of the applicant which is current on the date this Waste Licence Application is lodged with the Agency. It should be the name of the legal entity (which can be a limited company or a sole trader). A trading/business name is not acceptable.

**Name and Address for Correspondence**

Only application documentation submitted by the applicant and by the nominated person will be deemed to have come from the applicant.

**Name:** EPA Application c/o Bedminster International (Ireland) Limited**Address:** Oyster Point

Temple Road

Blackrock

Co Dublin

**Tel:** 01 279 9575**Fax:** 01 279 9589**e-mail:** info@bedminster.com**Address of registered or principal office of Body Corporate (if applicable)****Address:** Unit 1 Monread Commercial Park

Monread Road

Naas

Co. Kildare

**Tel:** 045 843800**Fax:** 045 981621**e-mail:** info@aesirl.ie

If the applicant is a body corporate, the following information must be attached as **Attachment B1:**

- a) a Certified Copy of the Certificate of Incorporation or Memorandum and Article of Association;
- b) the Company's Registration Number from the Companies Registry Office; and
- c) a list of the Company Directors.



WASTE Application Form

State the interest of the applicant in the land which is subject to the application. The applicant is (please check):

Landowner	<input type="checkbox"/>
Lessee	<input checked="" type="checkbox"/>
Prospective Purchaser	<input type="checkbox"/>
Other (please specify)	

Name and address of all occupiers of the land on which the Activity is situated (if different from applicant named above).

Name: Not Applicable

Address:

---



---



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Tel:

Fax:

e-mail:

Name and address of the current\* owner(s) and lessees of the land, buildings and ancillary plant on which the activity is or will be situated (if different from applicant named above). A drawing showing the above details should be included in Attachment B1.

Name: Patrick Moloughney & Philip de Bere Hunt

Address: t/a Bank Place

Cashel

County Tipperary

Tel: 062 64880

Fax: 062 64879

e-mail: info@bankpd.com

\*Current at the time the application is submitted

B.2 Location of Activity

Name:

Address\*: Killowen, Portlaw

Co. Waterford

Tel:

Fax:

e-mail:

\* Include any townland



<b>National Grid Reference</b> (8 digit 4E,4N)	S 4720 1790
---	-------------

Location maps with grid references should be enclosed in **Attachment B.2**. The site boundary must be outlined on the map in colour.

Original maps of the relevant area, such as maps from the Ordnance Discovery Series, from which the site grid reference can be read and confirmed, must be included in **Attachment B.2**.

**B.3 Planning Authority**

Give the name of the planning authority in whose functional area the activity is or will be carried out.

**Name:** Waterford County Council

---

**Address:** Civic Offices

---

Dungarvan

---

Co. Waterford

---

**Tel:** 058 22057

---

**Fax:** 058 42911

---

Has the Planning Authority received written notification from the applicant of the application to The Environmental Protection Agency for a Waste Licence under Article 9 of the Waste Management (Licensing) Regulations?

<b>Planning Authority notified</b>	<b>Yes</b> <input checked="" type="checkbox"/>
	<b>No</b> <input type="checkbox"/>

Planning Permission relating to this application

<i>has been obtained</i>	<input type="checkbox"/>
<i>is being processed</i>	<input checked="" type="checkbox"/>
<i>is not yet applied for</i>	<input type="checkbox"/>
<i>is not required</i>	<input type="checkbox"/>

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<b>Local Authority Planning File Reference N<sup>o</sup>:</b>	Not Known
---	-----------

**Attachment B.3** should contain *the most recent* planning permission, including a copy of *all* conditions, and the required copies of any EIS should also be enclosed. For existing activities, **Attachment B.3** should also contain copies of the most recent waste licence and any permits in force at the time of submission. Where planning permission is not required for the development, provide reasons, relevant correspondence, etc.

**B.4 Sanitary Authority**

In the case of a discharge of any trade effluent or other matter (other than domestic sewage or storm water) to a sewer of a sanitary authority or other body, give the name of the sanitary authority in which the sewer is vested or by which it is controlled and the waste water treatment plant (if any) to which the sewer discharges.

**Name:** Not Applicable -- There is an existing wastewater treatment plant on site with an effluent discharge licence for release of treated effluent to the River Suir. A copy of the licence is attached.

**Address:**

**Tel:**

**Fax:**

The applicant must enclose, as **Attachment B.4**, a copy of any effluent discharge licence and/or agreement between the applicant and the body with responsibility for the sewer.

**B.5 Other Authorities**

The applicant should tick the appropriate box below to identify whether the activity is located within the Shannon Free Airport Development Company (SFADCo.) area.

<b>Within SFADCo. Area</b>	<b>Yes</b> <input type="checkbox"/>	<b>No</b> <input checked="" type="checkbox"/>
----------------------------	-------------------------------------	---

The applicant should indicate the **Health Board Region** where the activity is or will be located.

**Name:** South Eastern Health Board

**Address:** South Eastern Health Board,  
Lacken, Dublin Road,  
Kilkenny

**Tel:** (056) 51702

**Fax:** (056) 65270

**B.6 Notices and Advertisements**

Articles 6 and 7 of the Waste Management (Licensing) Regulations 2004 requires all applicants to advertise the application in a newspaper and by way of a site notice. See *Guidance Note*.

**Attachment B.6** should contain a copy of the site notice and a drawing showing its location on site. **The original application must include the complete newspaper in which the advertisement was placed.** The relevant page of the newspaper containing the advertisement should be included with the original and three copies of the application.

**B.7 Type of Waste Activity, Tonnages & Fees**

**B.7.1 Specify the class or classes of activity in Table B.7.1, in accordance with the Third Schedule or Fourth Schedule to the Waste Management Acts 1996 to 2003, to which the application relates (check the relevant box(es) and mark the principal activity with a 'P').**

**Attachment B.7** should identify the principle activity and include a brief technical description of each of the other activities specified. **There can only be one principal activity.**

**TABLE B.7.1 THIRD AND FOURTH SCHEDULES OF THE WASTE MANAGEMENT ACTS 1996 TO 2003**

Waste Management Acts 1996 to 2003					
THIRD SCHEDULE Waste Disposal Activities		Y/N	FOURTH SCHEDULE Waste Recovery Activities		Y/N
1. Deposit on, in or under land (including landfill).			1. Solvent reclamation or regeneration.		
2. Land treatment, including biodegradation of liquid or sludge discards in soils.			2. Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes).		P
3. Deep injection of the soil, including injection of pumpable discards into wells, salt domes or naturally occurring repositories.			3. Recycling or reclamation of metals and metal compounds.		✓
4. Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.			4. Recycling or reclamation of other inorganic materials.		✓
5. Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.			5. Regeneration of acids or bases.		
6. Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 7 to 10 of this Schedule.		✓	6. Recovery of components used for pollution abatement.		
7. Physico-chemical treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 8 to 10 of this Schedule (including evaporation, drying and calcination).			7. Recovery of components from catalysts.		
8. Incineration on land or at sea.			8. Oil re-refining or other re-uses of oil.		
9. Permanent storage, including emplacement of containers in a mine.			9. Use of any waste principally as a fuel or other means to generate energy.		
10. Release of waste into a water body (including a seabed insertion).			10. The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system.		
11. Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.		✓	11. Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.		
12. Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.			12. Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.		
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.		✓	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.		✓

**TABLE B.7.2 MAXIMUM ANNUAL TONNAGE**

The maximum annual tonnage of waste to be handled at the site should be indicated and the year to which the quantity relates indicated.

<b>Maximum Annual Tonnage (tpa)</b>	100,000
<b>Year</b>	Per annum

**B.7.3 FEES**

State each class of activity for which a fee is being submitted as per Part I of the Second Schedule of the Waste Management (Licensing) Regulations 2004, S.I. No. 395 of 2004. Note: two fees are required if disposal and recovery are to occur.

Waste Activity	Fee (in €)
The disposal of waste (other than hazardous waste) at a facility (other than a landfill facility) where the annual intake is likely to exceed 25,000 but be less than 100,000 tonnes (3.3)	€12,000
Recovery of Waste (4)	€10,000
Total	€22,000

**TABLE B.7.4 (FOR A LANDFILL APPLICATION)**

STATE WHICH OF THE FOLLOWING IS RELEVANT TO THE CURRENT APPLICATION.

NOT APPLICABLE

(a) landfill for hazardous waste	<input type="checkbox"/>
(b) landfill for non-hazardous waste	<input type="checkbox"/>
(c) landfill for inert waste	<input type="checkbox"/>

**B.8 SEVESO II DIRECTIVE**

State whether the activity is for the purposes of an establishment to which the European Communities (Control of Major Accident Hazards involving Dangerous substances) Regulations, 2000 (S.I. No. 476 of 2000), apply.

<b>Regulations Apply</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
--------------------------	------------------------------	--

If yes, **Attachment B.8** should include the relevant details. Supporting information, as well as copies of any Hazardous Operation Studies (HAZOP) carried out for the site, should also be included in the attachment.

## Attachment B - General

### Attachment B.1 Applicant's Details

- a) a Certified Copy of the Certificate of Incorporation is attached;
- b) the Company's Registration Number for the Companies Registry Office is 224173;
- c) The Company Directors are:

Patrick Alley  
Andrew Bailey  
Martin Morrissey  
John Doheny  
Philip Danagher  
John Kerrigan  
William McCabe  
Paul O'Brien  
Noel O'Meara  
James Cox  
Brendan Vaughan

- d) Land interest details are shown in Figure B.1.

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NUMBER

224173

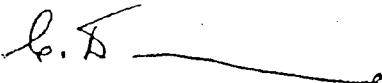
# Certificate of Incorporation

I hereby certify that

WASTE RECYCLING (IRELAND) LIMITED

is this day incorporated under  
the Companies Acts 1963 to 1990  
and that the company is limited.

Given under my hand at Dublin, this  
Thursday, the 3rd day of November, 1994

  
For Registrar of Companies

Fees and Deed Stamps	165.00
Stamp Duty on Capital	1.00

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Certified to be a true copy of the original  
Arthur Cox 21/11/94

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Number 224173

# Certificate of Incorporation on change of name

I hereby certify that

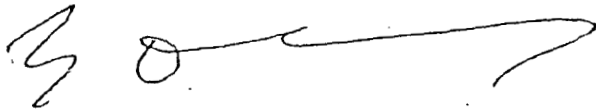
WASTE RECYCLING (IRELAND) LIMITED

having, by a Special Resolution of the Company,  
and with the approval of the Minister for Enterprise,  
Trade and Employment, changed its name, is now  
incorporated as a limited company under the name

ADVANCED ENVIRONMENTAL SOLUTIONS (IRELAND) LIMITED

and I have entered such name on the Register accordingly.

Given under my hand at Dublin, this  
Wednesday, the 6th day of September, 2000



for Registrar of Companies

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certified to be a true copy  
Arthur Cox 21.11.03

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**Attachment B.2 Location of Activity**

- A site location map is attached (OS Discovery Series 75, Figure B.2.1).
- Site plan with marked site boundary to which the application relates is attached as Figure B.2.

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**Attachment B.3 Planning Authority**

- Planning permission is being processed for the proposed waste facility.
- Planning permissions relevant to the site and relating to Michell Ireland Ltd are attached.
- Michell Ireland had an IPC licence Reg. No. 238. A copy is attached.
- Michell Ireland Ltd submitted an Environmental Impact Statement (EIS) with their original planning application. Information from that EIS has been used in support of this application and is attached at the relevant sections. A copy of the EIS relating to the Michell Ireland Ltd development is available from the EPA's public file for IPC licence Reg. No.238.

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AN BORD PLEANÁLALOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS, 1963 TO 1990County WaterfordPlanning Register Reference Number: 663/91

663/91

**APPEAL** by Suir Valley Environmental Group of Killowen, Portlaw, County Waterford against the decision made on the 4th day of February, 1992 by the Council of the County of Waterford to grant subject to conditions a permission to Michell Ireland Limited care of Reid Associates of 2 Arran Square, Off Lincoln Lane, Dublin for development comprising the construction and operation of Wet Blue Tannery for bovine hide tanning at Killowen, Portlaw, County Waterford in accordance with plans and particulars lodged with the said Council:

**DECISION:** Pursuant to the Local Government (Planning and Development) Acts, 1963 to 1990, it is hereby decided, for the reason set out in the First Schedule hereto, to grant permission for the said development in accordance with the said plans and particulars, subject to the conditions specified in the Second Schedule hereto, the reasons for the imposition of the said conditions being as set out in the said Second Schedule and the said permission is hereby granted subject to the said conditions.

FIRST SCHEDULE

It is considered that, subject to compliance with the conditions set out in the Second Schedule hereto, and having regard to the environmental controls contained in licences under the Water Pollution Acts, 1977 and 1990 and the Air Pollution Act, 1987, the proposed development would not contravene the provisions of the relevant Development Plans for the area, would not be prejudicial to the natural environment, public health, amenities or economy of the area and would otherwise accord with the proper planning and development of the area.

SECOND SCHEDULE

1. The developer shall facilitate both the planning authority and the Commissioners of Public Works in the safeguarding, preserving and recording of any items of archaeological significance which the site may possess. To this end the developer shall notify the planning authority and the Commissioners of Public Works at least four weeks prior to the commencement of work on the site to facilitate the archaeological appraisal of the site and monitor the digging of foundations and the laying of utility services on the site.

**Reason:** To facilitate the recording and protection of any items of archaeological significance which the site may possess.

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663/91

SECOND SCHEDULE (CONTD.)

2. The developer shall take all necessary steps, in consultation with the planning authority and the Commissioners of Public Works and other relevant statutory agencies, for the protection of the Opposite Leaved Pondweed present in the adjacent watercourses during construction and subsequently.

**Reason:** In the interest of environmental protection and amenity.

3. (a) The earth embankment around the waste water treatment area shall be increased in height to 2.5 metres and widened accordingly and if feasible, the existing embankment and hedgerow shall be left in situ along the outer line of the embankment. Access from the waste water treatment area to the outfall pipe wayleave area shall be via a ramp and not by means of a breach in the embankment.
- (b) A waterproof membrane shall be laid under the foundations and the general finished ground level of the waste water treatment area and shall be turned up for a level of not less than 1 metre under the embankment and the embankment between the product storage area and the waste water treatment area.
- (c) A stub wall of sufficient height and extent to contain up to 300 millimetres depth of liquid within the product storage area and other concrete yard areas shall be constructed around the north, east and west perimeter of these areas and similar arrangements shall be made within the maintenance store area. The ramp to the waste water treatment area shall be constructed to maintain the integrity of the containment area. Facilities shall be provided to close off all drains from the areas in case of emergency.

**Reason:** To prevent pollution in the interest of environmental protection, public health and amenity.

4. A suitable system of marking the location of the outfall pipe shall be positioned to ensure that it is clearly visible to vessels using the waterway. The precise details shall be determined in consultation with the relevant authorities.

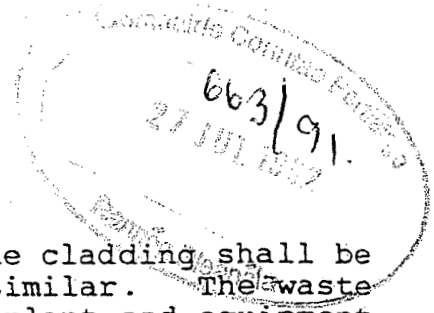
**Reason:** In the interest of the safe navigation, fishing and amenity of the river.

5. Any external lighting shall be of such height and configuration and shall incorporate full cut-off facilities to avoid glare or point illumination which might cause hazard to road or river traffic, details of which shall be agreed with the planning authority.

**Reason:** In the interest of safety and amenity.

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SECOND SCHEDULE (CONTD.)

6. The external colour of the roofs and side cladding shall be colour coat HP 200 "Moorland Green" or similar. The waste water treatment tanks and other external plant and equipment shall be finished in accordance with the sample finish submitted to An Bord Pleanála during the course of the oral hearing relating to the application. The colour of the forticrete shall be agreed with the planning authority prior to commencement of development.

**Reason:** In the interest of visual amenity.

7. In addition to the landscaping proposed on drawing number C150/06 received by the planning authority on the 6th day of December, 1991, planting shall take place as follows:-

- (i) A continuous row of *Populus nigra* 'Italica' (Lombardy Poplar) along the outside of the northern section of the embankment around the waste water treatment area, planted at close intervals.
- (ii) A continuous row of *Pinus sylvestris* along the south-western section of the above embankment and continuous mixed planting of *Acer pseudoplatanus* (Sycamore) and *Fraxinus excelsior* (Common Ash) along the south-west fence from the rear to the front building line.

**Reason:** In the interest of visual amenity.

8. Any security fencing around the site shall be of dark green plastic-coated mesh with similarly coloured uprights and shall be situated inside any perimeter planting.

**Reason:** In the interest of visual amenity.

9. Notwithstanding the exempted development provisions of the Local Government (Planning and Development) Regulations, 1977, as amended, no new signs whatsoever shall be exhibited externally within the curtilage of the site, save with a prior grant of planning permission from the planning authority, or from An Bord Pleanála on appeal.

**Reason:** In the interest of visual amenity.

10. All vehicles carrying raw materials or process materials to the site and removing waste materials therefrom shall be constructed, maintained, loaded, covered and unloaded in a manner which will prevent spillages and malodours at the plant or on routes to and from the plant.

**Reason:** To prevent pollution in the interest of environmental protection, public health and amenity.

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SECOND SCHEDULE (CONTD.)

11. All raw materials awaiting processing shall be stored in a manner which will minimise deterioration and prevent the creation of malodours detectible outside the plant. Storage areas shall be regularly cleaned and the wash water disposed of to the waste water treatment plant.

**Reason:** To prevent pollution in the interest of environmental protection, public health and amenity.

12. Process organic waste, as described in Table 5.1 of the Environmental Impact Statement, shall be stored in covered waterproof containers as the waste is produced and shall be removed from the site for processing or disposal, as appropriate to the individual component of the waste, each day. A sufficient number of containers shall be used to facilitate regular cleaning down and deodorising of same.

**Reason:** To prevent pollution in the interest of environmental protection, public health and amenity.

13. All solid wastes shall be disposed of in accordance with the detailed requirements of the planning authority for the disposal of such wastes.

**Reason:** To prevent pollution in the interest of environmental protection, public health and amenity.

14. Treatment plant sludge shall initially be disposed of either to a local authority landfill site or to such other landfill site(s) as may be approved by the planning authority. Disposal shall be in accordance with the regime described by the planning authority at the oral hearing, incorporating the use of soil/sludge mix as final fill or shall otherwise be in accordance with such other regime to be agreed or approved, as appropriate, by the planning authority, to provide a similar or superior level of environmental protection. Any proposal to apply sludge arising from the proposed tannery operation to land shall be subject to prior investigation and approval by the Department of Agriculture, or their agents, and the planning authority.

**Reason:** To prevent pollution in the interest of environmental protection, public health and amenity.

15. A fume extraction system, including a fume extract hood and ducts with mechanical extraction equipment, shall be provided by which fumes from the processing shall be discharged above roof level. Provision shall be made for the installation of sampling points on the extraction system. The discharge shall only be in accordance with the terms of any current licence under the Air Pollution Act.

**Reason:** To prevent pollution in the interest of environmental protection, public health and amenity.

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SECOND SCHEDULE (CONTD.)

16. The abstraction of water from the proposed borehole shall be monitored to establish its effect on existing wells in the area and any adverse effects indicated shall be remedied, if necessary, by reduction of output or by establishing an alternative source. Monitoring results shall be made available to the planning authority.

**Reason:** In the interest of residential amenity, agriculture and public health.

17. Noise levels at the perimeter of the site shall not exceed 74 dB(A) and shall not exceed 35 dB(A) at the nearest residence.

**Reason:** In the interest of amenity.

18. The developer shall keep sufficient records of origin and volume of raw materials, volume and composition of waste products and waste waters in accordance with details which shall be agreed with the planning authority and shall make such records available to the planning authority as required.

**Reason:** To facilitate the planning authority in monitoring the development in the interest of environmental protection, public health and amenity.

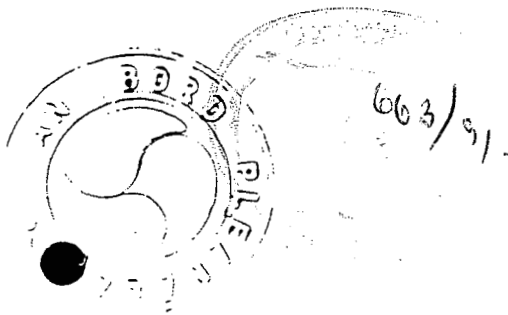
19. The developer shall pay £25,000 (twenty-five thousand pounds) (updated at the time of payment in accordance with changes in Wholesale Price Index Building and Construction (Capital Goods) published by the Central Statistics Office) to the planning authority as a contribution towards the expenditure that is proposed to be incurred by the authority in the provision of community support facilities and necessary infrastructure which will facilitate the proposed development, subject to the expenditure being incurred within the next seven years and to the stipulations set out in Section 26 (2) (h) of the Local Government (Planning and Development) Act, 1963.

**Reason:** It is considered reasonable that the developer should contribute towards the expenditure proposed to be incurred by the planning authority in respect of the provision of community support facilities and necessary infrastructure which will facilitate the proposed development.

*A used word  
have facilitated*

Member of An Bord Pleanála duly  
authorised to authenticate the  
seal of the Board.

Dated this 23<sup>rd</sup> day of July, 1992.



*[Handwritten signature]*

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## Section 6.3

Waterford County Council

Local Government (Water Pollution) Acts, 1977 and 1990

Licence to discharge trade and sewage effluent to waters.

Reference No. in Register: WP/1/W/91R

Order No: Env/15/'92

To: Michell Ireland Ltd.,  
43 Main Street,  
Carrick-on-Suir,  
County Tipperary.

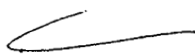
The County Council of Waterford in exercise of the powers conferred on it by the Local Government (Water Pollution) Acts 1977 and 1990 hereby grants a licence, reference no. WP/1/91R to discharge trade and sewage effluent and contaminated waste water from a Bovine Hide Tanning Factory located at Killowen, Portlaw, Co. Waterford to the River Suir at Killowen, Portlaw, Co. Waterford subject to conditions numbered 1 to 14 on the attached schedule.

Dated this 6<sup>th</sup> day of August, 1992.

Signed: \_\_\_\_\_

County Manager.

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Schedule of conditions attached to licence Ref.No.WP/1/W/91R.

1. GENERAL

1.1 This Licence refers to the discharge of trade effluent, sewage effluent and contaminated waste water from the Bovine Hide Tanning Operations of Michell Ireland Limited at Killowen, Portlaw, Co. Waterford.

1.2 All trade effluent shall be collected and discharged after treatment via a single pipeline to the River Suir. The location of this pipeline on land shall be as shown on Drawing Number C150/04 received by the Planning Authority on the 6th day of December, 1991. The location of the diffuser shall be a minimum of 30 metres from shore, or such other distance as may be deemed necessary to comply with this section of the licence, thus modifying Detail A of drawing number C150/04. The proposed outfall shall be constructed to ensure that it will not protrude from the river bed, and shall end at a diffuser which shall remain covered at lowest neap tide. Details of the design and location of the outfall and diffuser shall be submitted to the Licencing Authority with details of river bed bathymetry in the vicinity of the outfall prior to commencement of construction.

1.3 No material change in the quality and quantity of the trade effluent being discharged to the River Suir shall be made without the prior consent of the Licensing Authority.

2. STORM WATER

2.1 All uncontaminated storm water from roofs, roadways and other paved areas shall be discharged in a separate storm water pipeline system via an oil interceptor to the River Suir as indicated on Drawing No. C150/04 submitted with the application. Under no circumstance shall trade effluent or contaminated surface water be allowed discharge to the storm water pipeline.

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2.2 A readily accessible chamber shall be constructed on the storm water pipeline to allow for sampling of the storm water being discharged. This chamber shall incorporate continuous automatic pH and Conductivity monitoring. Details of the design and location of this chamber shall be submitted for approval to the Licensing Authority within four months of the date of issue of this Licence and the chamber shall be constructed and operational prior to commencement of production.

2.3 Storm water values of pH outside the range of 6.0 to 9.0 and conductivity levels in excess of 2,000 uS/cm shall result in activation of visual and audible alarms on the control panels and also the activation of a sluice valve to immediately terminate the discharge. The results of monitoring for each month shall be submitted to the Licensing Authority prior to the tenth day of the following month.

2.4 Within six months of the date of issue of this Licence, the Licensee shall submit results of a study to be undertaken by an approved body outlining the possible effects of runoff in the event of a fire on site. Following receipt of this study, the Licensing Authority may indicate additional measures which must be taken by the Licensee in order to protect waters against possible pollution from such an event. The cost of this study shall be borne by the Licensee.

2.5 The format for presentation of monitoring results shall be agreed with the Licensing Authority within four months of the date of issue of the Licence.

### 3. TRADE EFFLUENT.

3.1 All trade effluent, sewage effluent and contaminated waste water shall be treated in the on-site biological waste water treatment plant prior to discharge to the River Suir.

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3.2 Trade Effluent and contaminated waste water shall comprise those arising from the general processing operations and shall include the following:-

- (a) Process waste water.
- (b) Aqueous wastes and contaminated runoff from the bunded areas.
- (c) Contaminated wastes from the truck unloading and storage areas.
- (d) Contaminated storm and fire water.
- (e) Floor washings and wash water.
- (f) Domestic effluents.
- (g) Laboratory waste water

3.3 The total volume of trade effluent discharged to the River Suir shall not exceed 690 cubic metres/day or 90 cubic metres/hour or 30 litres/second.

3.4 Effluent shall only be discharged during four hours of ebbing tides, commencing half an hour after the ebb begins and terminating one and a half hours before ebb ceases.

3.5 As from commencement of production the characteristics of the trade effluent in any sample taken at the monitoring chamber (point of sampling) specified at Condition 6.1 below, shall not exceed the following limits.

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Parameter	Load (kg/day)	Load (kg/hr)	Concentration (mg/l) (except Temp. & pH)
Temperature	-	-	20°C
pH	-	-	6.0 - 9.0
ND	41.4	5.18	60
Suspended Solids (S.S.)	69	8.63	100
Ammonia (as N)	27.6	3.45	40
	18	2.25	(Sept to May incl.) 25
			(June to Aug incl.)
Nitrates (as No <sub>3</sub> )	34.5	4.31	50
Total Chromium (as Cr)	0.35	0.044	0.5
Sulphide (as S)	0.35	0.044	0.5
Chloride (as Cl)	3450	431.3	5000
Sludge/Oils/Grease (F.O.G.)	34.5	4.31	50
Phosphorus (as P)	2.42	0.30	3.5
Orthophosphate (as P)	1.4	0.18	2.0

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3.6

In addition to the above the discharged effluent shall not alter the pH of the receiving waters by more than 0.2 units and the temperature of the receiving waters by more than one degree centigrade measured at a point 200m downstream of the discharge point.

#### 4. TOXICITY

4.1 The toxicity of the final effluent, as expressed in Toxic Units (TU), shall be determined with reference to a representative aquatic organism on the basis of a flow-proportionate composite effluent sample. The determination shall be carried out by a reputable and independent analyst or laboratory, whose name shall be submitted, in writing, to the Licensing Authority, for approval, within four months of the date of issue of this Licence.

4.2 The toxic concentration of the final effluent (undiluted) to the representative aquatic organism shall not exceed 5 Toxic Units (TU) based on the 96 hour LC 50 procedure where a Toxic Unit (TU) is defined as follows:-

$$TU = \frac{100}{96\text{-hour LC } 50}$$

4.3 Tests to establish the toxicity of the final effluent shall be determined and the results submitted to the Licensing Authority within six months of commencement of production, and annually thereafter or at the request of the Licensing Authority. The costs of such testing shall be borne by the Licensee.

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## 5. TAINTING

5.1 No material or substance shall be discharged from the premises to the River Suir in a manner which, or at a concentration which, following initial dilution in the receiving waters causes tainting of fish or shellfish, interferes with the normal pattern of fish migration, or which accumulates in sediments or biological tissues to the detriment of fish, wildlife or their predators.

5.2 ~~Tests to establish the tainting potential of the final effluent shall be carried out by a reputable and independent analyst or laboratory, whose name shall be submitted to the Licensing Authority for approval, within four months of the date of issue of this Licence.~~ The results of such testing shall be submitted to the Licensing Authority within six months of commencement of production and at intervals not exceeding twelve months thereafter or at the request of the Licensing Authority. The costs of such testing shall be borne by the Licensee.

## 6. MONITORING

6.1 A readily accessible monitoring chamber shall be provided by the licensee on the trade effluent discharge line to the River Suir. This chamber shall incorporate:-

- (a) Automatic flow measurement equipment which shall continuously indicate, integrate, and record the flow in cubic metres/hour and the cumulative daily flow in cubic metres.
- (b) Automatic sampling equipment which shall be capable of sampling the effluent on a continuous basis by means of a composite sampler of a flow-proportionate and time proportionate type.

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- (c) A manual sampling point, the floor of which shall be at least 225mm lower than the invert level of the chamber's inlet and outlet, including a removable v-notch weir or other suitable physical means for flow measurement.
- (d) Continuous automatic pH monitoring, complete with chart recorder, and visual and audible alarm with high (9.0) and low (6.0) settings.

6.2 The monitoring chamber shall be upstream of the discharge point to the River Suir. Details of the design and location of this chamber shall be submitted for approval to the Licensing Authority within four months of the date of issue of this Licence and shall be constructed and operational prior to commencement of production.

6.3 The equipment specified at 6.1 (a), (b), (c) and (d) above, shall be installed and operational prior to commencement of production and shall be in use at all times during which effluent is being discharged. Any malfunction of this equipment shall be immediately notified to the Licensing Authority in writing.

6.4 The Licensee shall, at all times, grant immediate and unhindered access to the factory premises, including the treatment plant and monitoring chambers, to authorised personnel of the Licensing Authority or its authorised agents or any statutory body having statutory responsibility for Water Pollution Control to carry out such inspections, monitoring and investigations as deemed necessary.

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## 7. SELF MONITORING

7.1 The Licensee shall carry out monitoring of its trade effluent prior to discharge to the River Suir as follows:-

- (a) Measurement of total daily flow.
- (b) Temperature of the discharging effluent on an hourly basis over each four hour discharge period.
- (c) Daily analysis of pH, B.O.D., C.O.D., S.S., Ammonia, Chromium, Phosphorus, Chloride, Sulphide, F.O.G. and Nitrates based on a flow proportionate composite sample over one four hour discharge period.
- (d) At least once every week during production, a flow proportionate composite effluent sample shall be taken over two successive four hour discharge periods. This sample shall be analysed for all the parameters listed at Condition 3.5 above by a reputable and independent analyst or laboratory. The name of this analyst or laboratory shall be submitted, in writing, to the Licensing Authority, for approval, within four months of the date of issue of this Licence.
- (e) Quarterly analysis of residual biocides.
- (f) At least once every week during start-up and commissioning and for a period of six months thereafter an analysis shall be performed of the residual biocides in the effluent by a reputable and independent analyst or laboratory. The name of this analyst or laboratory shall be submitted to the Licencing Authority within four months of the date of the issue of this Licence.

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7.2 In the event that, over a period of 6 months, satisfactory correlation can be established between C.O.D. and B.O.D. levels, then with the agreement of the Licensing Authority the C.O.D. test results may be used to estimate the B.O.D. loading, subject to the following:

- (i) Weekly B.O.D. (5 day) tests being carried out in accordance with 7.1 (d) above.
- (ii) Yearly evaluation of the C.O.D. / B.O.D. correlation.

7.3 The Licensee shall keep records of all monitoring carried out and all chemicals used and shall retain such records for a period of seven years. These records shall be available for inspection at all reasonable times by authorised personnel of the Licensing Authority or its authorised agents or any statutory body having statutory responsibility for Water Pollution Control. The Licensee shall submit to the Licensing Authority, before the tenth day of each calendar month, the results of all monitoring for the previous month referred to at 7.1 (a), (b), (c) and (d) above. The results of monitoring in accordance with 7.1 (e) above shall be submitted within one month of the date of sampling being carried out. The results of monitoring in accordance with 7.1 (f) above shall be submitted within one week of the date of the sampling being carried out. The format for presentation of results shall be agreed with the Licensing Authority within four months of the date of issue of this Licence.

7.4 Before February 15th, of each calendar year, the Licensee shall submit a summary report of all monitoring carried out in the previous year. This report shall evaluate the operation of the facilities available on site to treat the effluent produced in the light of the results achieved in the previous year. The report shall also outline the intentions of the Licensee with regard to the upgrading of the treatment plant or operations should these results not fully comply with the terms

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of this Licence.

7.5 All monthly and annual reports shall be signed by the Licensee's plant manager or other senior officer designated by the Licensee.

7.6 The Licensee shall carry out a visual inspection of the effluent and storm water discharge points daily and any abnormalities in water quality shall be noted. If it appears that the abnormalities may be occurring as a result of the Licensee's discharges then the Licensee shall immediately terminate the discharges and notify the Licensing Authority and initiate an investigation into the possible cause of the abnormalities.

7.7 The Licensee shall arrange to have an annual biological survey of the River Suir carried out upstream and downstream of the discharge locations. These surveys should examine any impact of the discharges from the premises on the densities and diversities of macroinvertebrates. For comparison purposes these surveys shall be related to the background survey carried out for the Environmental Impact Statement submitted with the planning application.

The biological surveys shall be carried out by a reputable and independent analyst or laboratory. The name of this analyst or laboratory shall be submitted to the Licensing Authority for approval within four months of the date of issue of this Licence.

The number and location of monitoring points shall be agreed with the Licensing Authority prior to carrying out the surveys.

The format for presentation of the results of these surveys shall be agreed with the Licensing Authority within four months of the date of issue of this licence.

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- 7.8 The Licensee shall arrange to have an annual programme of monitoring carried out on the sediments in the River Suir upstream and downstream of the discharge locations. This monitoring should examine any impact of the discharges from the premises on the organic matter, cadmium, chromium, copper, lead, zinc, mercury, total phosphorus and sulphide contents of the sediments and the levels of chromium in the most sensitive species.

This sediment and sensitive species monitoring programme shall be carried out by a reputable and independent analyst or laboratory. The name of this analyst or laboratory shall be submitted to the Licensing Authority for approval within four months of the date of issue of this Licence.

The number and location of monitoring points shall be agreed with the Licensing Authority prior to carrying out the monitoring.

The format for presentation of results shall be agreed with the Licensing Authority within four months of the date of issue of this Licence.

- 7.9 The Licensing Authority shall reserve the right at any time to increase or decrease the frequency of sampling and analyses required.

## 8.0 GROUNDWATER

- 8.1 The Licensee shall agree a programme of groundwater monitoring with the Licensing Authority. This programme shall include the monitoring of a minimum of three borehole wells, one of which shall be located above and one below the site's hydraulic gradient. The location of the third well shall be agreed with the Licensing Authority. The programme shall include the monitoring of each well at least twice per annum in March and September, for the following parameters: Conductivity, Chloride, Iron, Manganese, pH, Oxygen Demand, Ammonia, Nitrates and such other parameters as may be indicated by the Licensing Authority.

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The Licensing Authority shall reserve the right to alter the frequency of such monitoring.

The monitoring programme and the format for presentation of results shall be agreed with the Licensing Authority within four months of the date of issue of this Licence.

#### 9.0 TREATMENT PLANT.

9.1 The waste water treatment plant shall be fully constructed, commissioned and operational prior to commencement of production. All liquid retaining units shall be tested for watertightness. In the case of reinforced concrete units, this testing shall be carried out in accordance with BS 8007. The results of all such tests shall be certified by a competent structural Engineer.

9.2 The waste water treatment plant shall be managed by a competent operator who shall be adequately trained in all appropriate aspects of waste water treatment.

9.3 The Licensee shall initiate a maintenance programme for all mechanical and electrical plant in use in the treatment process or in pollution control. A register shall be kept of all maintenance work carried out on such units and this information shall be made available to the Licensing Authority on request.

Duty and standby pumps and other such duplicated plant shall be interchanged weekly in order to allow each unit equal time in duty mode. Control panels shall incorporate hours run meters for each individual unit.

9.4 All pump sumps or other treatment plant chambers from which spillages might occur shall be fitted with high liquid level alarms. The alarm condition shall be signified by a visual and audible signal at times when maintenance staff are present on site and shall be connected to an autodialling communication and message system at all other

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times.

10. RESPONSIBLE PERSON:

10.1 The Licensee shall nominate suitably qualified persons who shall be responsible for the supervision, control, and monitoring of all discharges arising at the premises as well as giving relevant information on all such discharges to the Licensing Authority. At least one of these persons shall be available at all times during which processing is taking place and effluent is being discharged. The names and telephone numbers of these persons shall be submitted, in writing, to the Licensing Authority prior to commencement of production.

11. STORAGE FACILITIES:

11.1 All storage tank areas and drum storage areas which contain oils, chemicals or other substances which are, or could be, harmful to the aquatic environment shall be rendered impervious to the materials stored therein. Additionally, these areas shall be bunded, either locally or remotely, to a volume of 110% of the largest tank within each individual bunded area and/or fitted with interceptors, or otherwise designed to the satisfaction of the Licensing Authority in order to give protection to pipelines, surface waters and groundwaters on spillage or seepage of the stored materials

11.2 The integrity and watertightness of all the bunded structures and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the Licensee to the satisfaction of the Licensing Authority. The results of these tests shall be certified by a competent structural Engineer.

12. SPILLAGES

12.1 The Licensee shall immediately notify the Licensing Authority after the occurrence of any accidental discharge, spillage or deposit of any pollutant or potential pollutant which enters, or is likely to enter waters or cause

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pollution.

3. SOLID WASTE:

13.1 All solid waste shall be disposed of in accordance with the following regulations, as appropriate:-

- (a) The European Communities (Waste) Regulations, 1979 (S.I. No. 390 of 1979).
- (b) The European Communities (Toxic and Dangerous Waste) Regulations, 1982, (S.I. No. 33 of 1982).
- (c) The European Communities (Waste Oils) Regulations, 1984 (S.I. No. 107 of 1984).
- (d) The European Communities (Transfrontier Shipment of Hazardous Waste) Regulations, 1988 (S.I. No. 248 of 1988).
- (e) The European Communities (Use of Sewage Sludge in Agriculture) Regulations 1991 (S.I. No. 183 of 1991).

13.2 While awaiting disposal, all wastes including empty drums and containers shall be collected and stored at a designated impervious location at the premises to be agreed with the Licensing Authority within four months of the date of issue of this Licence.

13.3 All treatment plant sludges shall be mechanically dewatered to not less than 15% solids prior to disposal off-site. Any liquid extracted shall be returned to the effluent treatment system.

13.4 All solid waste which can be regarded as neither toxic nor dangerous including treatment plant sludges and general refuse shall be disposed of to landfill or by other means approved by the Licensing Authority in writing.

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13.5 Prior to any land filling of wastes under Condition 13.4 above, leachate monitoring shall be carried out on these wastes. Details of this monitoring shall be agreed with the Licensing Authority within four months of the date of issue of this Licence.

13.6 The licensee shall keep records of all wastes disposed of off-site and shall retain such records for a minimum period of seven years. These records shall be submitted to the Licensing Authority on a monthly basis in a format to be agreed with the Licensing Authority within four months of the date of issue of this Licence.

#### 14. CONTRIBUTIONS:

14.1 The Licensee shall pay the Licensing Authority such annual contributions towards its costs in monitoring the discharges and their effect on the River Suir as the Authority considers necessary for the performance of its duties under the Local Government (Water Pollution) Acts, 1977 and 1990, as follows:-

- (a) The contribution shall fall due on the date of commencement of production and on the same date for each year thereafter. This contribution shall be paid within two months of the due date for each year. The initial contribution shall be £9,000.
- (b) The contribution of £9,000 shall, in subsequent years, be index linked in accordance with the Consumer Price Index from the date of commencement of production, to the Index value pertaining at the due date of payment of each annual contribution.
- (c) Notwithstanding the above, the Licensing Authority shall, at all times, reserve the right to alter the annual rate of contribution having regard to monitoring requirements and actual costs incurred.

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## Section 6.4

Waterford County Council

Air Pollution Act 1987

Licence in relation to Industrial Plant

Reference No. in Register: AP/3/91

Order No. Env/14/'92

To: Michell Ireland Ltd.,  
43 Main St.,  
Carrick-on-Suir,  
Co. Tipperary.

The County Council of Waterford in exercise of the powers conferred on it by the Air Pollution Act, 1987 hereby grants a licence, reference number AP/3/91, to operate an industrial plant Bovine Hide Tanning Factory, located at Killowen, Portlaw, Co. Waterford subject to conditions numbered 1 to 14 on the attached schedule.

Dated this 6<sup>th</sup> day of August, 1992.

Signed: \_\_\_\_\_

County Manager.

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*Daniel Hurley*

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Headquarters,  
Johnstown Castle Estate,  
Co. Wexford, Ireland

## INTEGRATED POLLUTION CONTROL LICENCE

**Licence Register  
Number:**

238

**Licensee:**

Michell Ireland Limited

**Location of Activity:**

Killowen, Portlaw, County  
Waterford

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## Glossary of Terms

The Agency	Environmental Protection Agency.
The Licensee	Michell Ireland Limited, Killowen, Portlaw, Co. Waterford
Local Authority	Waterford County Council.
AER	Annual Environmental Report.
Annually	All or part of a period of twelve consecutive months.
BATNEEC	Best Available Technology Not Entailing Excessive Cost.
Bi-annually	All or part of a period of six consecutive months.
Biennially	Once every two years
BOD	5 day Biochemical Oxygen Demand.
COD	Chemical Oxygen Demand.
Day	Any 24 hour period
Daily	During all days of plant operation, and in the case of emissions, when emissions are taking place; with no more than 1 measurement on any one day.
Daytime	0800 hrs to 2200 hrs.
dB(A)	Decibels (A weighted).
DO	Dissolved Oxygen.
EMP	Environmental Management Programme.
EWC	European Waste Catalogue (94/3/EEC, see also Agency Guidance Note on the EWC)
GC/MS	Gas Chromatography/ Mass Spectroscopy
HFO	Heavy Fuel Oil.
IPC	Integrated Pollution Control.
K	Kelvin.
kPa	kilo Pascals.
Leq	Equivalent continuous sound level.
Lighting-up time	30 minutes after sun set.
List I	As listed in the EC Directives 76/464/EEC and 80/68/EEC and amendments.

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List II	As listed in the EC Directives 76/464/EEC and 80/68/EEC and amendments.
Monthly	At least 12 times per year at approximately monthly intervals.
Night-time	2200 hrs to 0800 hrs.
Noise sensitive location	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.
PER	Pollution Emission Register.
ppm	Parts per million.
Quarterly	All or part of any three consecutive months beginning on the first day of January, April, July or October.
Standard Methods	As detailed in "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) 19th Ed. 1995, American Public Health Association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA.
TA Luft	Technical Instructions on Air Quality Control - TA Luft in accordance with art. 48 of the Federal Immission Control Law (BImSchG) dated 15 March 1974 (BGBl. I p.721). Federal Ministry for Environment, Bonn 1986.
Waste disposal operation	Means any of the operations included in the Third Schedule to the Waste Management Act 1996.
Waste recovery operation	Means any of the operations included in the Fourth Schedule to the Waste Management Act 1996.
Weekly	During all weeks of plant operation, and in the case of emissions, when emissions are taking place; with no more than one measurement in any one week.
WWTP	Waste Water Treatment Plant.

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## Conditions

### Condition 1 Scope

- 1.1 The activity shall be controlled, operated, and maintained and emissions shall take place as set out in this Integrated Pollution Control (IPC) licence. All programmes required to be carried out under the terms of this licence, become part of this licence.
- 1.2 No alteration to, or reconstruction in respect of, the activity or any part thereof which would, or is likely to, result in a material change or increase in :
- 1.2.1 The nature or quantity of any emission,
  - 1.2.2 The abatement/treatment or recovery systems,
  - 1.2.3 The range of processes to be carried out,
  - 1.2.4 The fuels, raw materials, intermediates, products or wastes generated, or any changes in:
  - 1.2.5 The site management and control with adverse environmental significance,
- shall be carried out or commenced without prior notice to, and without the prior written agreement of, the Agency.
- 1.3 This licence is for the purposes of IPC licensing under the EPA Act, 1992 only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.4 Any reference in this licence to 'site' shall mean the plan area edged in black and labelled 'Site Location Map No. 3' in the IPC licence application.

Reason: To clarify the scope of this licence.

### Condition 2 Management of the Activity

- 2.1 The licensee shall establish and maintain an Environmental Management System (EMS) which shall fulfil the requirements of this licence. The EMS shall assess all operations and review all practicable options for the use of cleaner technology, cleaner production and the reduction and minimisation of waste, and shall include as a minimum those elements specified in the Conditions 2.2 to 2.9 below:
- 2.2 A schedule of Environmental Objectives and Targets
- 2.2.1 The licensee shall prepare a schedule of Environmental Objectives and Targets. The schedule shall include time frames for the achievement of set targets. The schedule shall address a five year period as a minimum. The schedule shall be prepared to the satisfaction of the Agency and shall be submitted to the Agency within four months of date of grant of this licence. The schedule shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER) (Condition 2.9).

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## 2.3 Environmental Management Programme (EMP)

2.3.1 The licensee shall, not later than six months from the date of grant of this licence, establish and maintain an EMP, including a time schedule, for achieving objectives and targets. The EMP shall thereafter, form part of the AER and shall be agreed with the Agency prior to implementation. 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.
- (iv) Those items listed in *Schedule 7(i) Recording and Reporting to the Agency* of this licence as pertaining to EMP

2.3.2 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.

## 2.4 Pollution Emission Register (PER)

2.4.1 The substances to be included in the PER shall be agreed with the Agency each year by reference to the list specified in the AER guidance note. The PER shall be prepared in accordance with any relevant guidelines issued by the Agency and shall be submitted as part of the AER.

2.4.2 The licensee shall, not later than six months from the date of grant of this licence and thereafter as part of the AER, agree with the Agency the list of substances to be included in the PER, and the methodology to be used in their determination.

## 2.5 Documentation

2.5.1 The licensee shall establish and maintain an environmental management documentation system which shall be to the satisfaction of the Agency.

2.5.2 The licensee shall issue a copy of this licence to all relevant personnel whose duties relate to any condition of this licence.

## 2.6 Corrective Action

2.6.1 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.

## 2.7 Awareness and Training

2.7.1 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.

2.7.2 Personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and/or experience, as required.

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## 2.8 Responsibilities

2.8.1 The licensee shall ensure that a person in charge, as defined under the terms of the Environmental Protection Agency Act, 1992 shall be available on-site at all times when the activity is in operation. The person in charge shall also be available to meet with authorised persons of the Agency at all reasonable times.

## 2.9 Communications

2.9.1 The licensee shall put in place a programme to ensure that members of the public can obtain information concerning the environmental performance of the licensee at all reasonable times. This programme shall be submitted for agreement to the Agency within six months of the date of grant of this licence.

2.9.2 The licensee shall submit to the Agency, eighteen months from the date of grant of this licence, and each calendar year thereafter, an AER which shall be to the satisfaction of the Agency. This report shall include as a minimum the information specified in *Schedule 7(i) Recording and Reporting to the Agency* and shall be prepared in accordance with any relevant guidelines issued by the Agency.

*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 Interpretation

3.1 Emission limit values for emissions to atmosphere in this licence shall be interpreted in the following way:-

3.1.1 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.

3.2 The concentration limits for emissions to atmosphere specified in this licence shall be based on gas volumes under standard conditions of :-

3.2.1 In the case of non-combustion gases:

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

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- 3.2.2 In the case of combustion gases:
- (i) Temperature 273K, Pressure 101.3 kPa, dry gas; 3% oxygen for liquid and gas fuels; 6% oxygen for solid fuels.
- 3.3 Emission limit values for emissions to waters in this licence shall be interpreted in the following way:-
- 3.3.1 Continuous monitoring:
- (i) No flow value shall exceed the specified limit.
- 3.3.2 Non-Continuous Monitoring:
- (i) No pH value shall deviate from the specified range.
  - (ii) No temperature value shall exceed the limit value.
  - (iii) For parameters other than pH, temperature and flow, eight out of ten consecutive results, calculated as daily mean concentration or mass emission values on the basis of 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.
  - (iv) For parameters other than pH, temperature, and flow, no grab sample value shall exceed 1.2 times the emission limit value.
- 3.4 Noise
- 3.4.1 Noise from the activity shall not give rise to sound pressure levels (Leq, 15min) measured at specified noise sensitive locations which exceed the limit value(s) by more than 2dB(A).

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

## Condition 4 Notification

- 4.1 The licensee shall notify the Agency by both telephone and facsimile, if available, to the Agency's Headquarters in Wexford, or to such other Agency office as may be specified by the Agency, as soon as practicable after the occurrence of any of the following:
- 4.1.1 Any release to atmosphere from any potential emission point.
  - 4.1.2 Any emission which does not comply with the requirements of this licence.
  - 4.1.3 Any malfunction or breakdown of control equipment or monitoring equipment set out in;
    - Schedule 1(iii) Emissions to Atmosphere - Abatement/Treatment Control.,*
    - Schedule 2(iii) Effluent Treatment Control,*
 which is likely to lead to loss of control of the abatement system.
  - 4.1.4 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.

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The licensee shall include as part of the notification, date and time of the incident, details of the occurrence, and the steps taken to minimise the emissions and avoid recurrence.

- 4.2 The licensee shall make a record of any incident as set out in Condition 4.1 above. The notification given to the Agency shall include details of the circumstances giving rise to the incident and all actions taken to minimise the effect on the environment and minimise wastes generated.
- 4.3 A summary report of reported incidents shall be submitted to the Agency as part of the AER. The information contained in this report shall be prepared in accordance with any relevant guidelines issued by the Agency.
- 4.4 In the case of any incident as set out in Condition 4.1.2 above which relates to discharges to water, the licensee shall notify the Southern Regional Fisheries Board as soon as practicable after such an incident.
- 4.5 In the event of any incident, as set out in Condition 4.1.4 having taken place, the licensee shall notify the Local Authority as soon as practicable, after such an incident.

*Reason : To provide for the notification of incidents and update information on the activity.*

## Condition 5 Materials Handling

- 5.1 Where practicable, the licensee shall ensure that the transport of raw materials from the point of production to the site shall be in suitably covered vehicles.
- 5.2 Fresh hides shall be processed or temporarily preserved as soon as possible and routinely within 24 hours of receipt.
- 5.3 Raw materials and wastes shall not be deposited on the open yard. All outside yard surfaces shall be kept clean and spillages shall be cleaned up immediately.
- 5.4 All waste materials (including WWTP sludge), held on-site or leaving the site shall be held/transported in suitably covered and water retaining containers. All of these vehicles shall be washed down prior to leaving the premises, and the resulting wash-water shall be directed to the Waste Water Treatment Plant.
- 5.5 All offensive odours from buildings where raw materials and intermediates are deposited, stored, processed or manufactured must be contained. The integrity of buildings shall be maintained to prevent the uncontrolled release of ventilation air.
- 5.6 Doors shall be close fitting and shall remain closed, other than for the movement of personnel and materials, during the carrying on of the activity.
- 5.7 Good housekeeping and cleaning programmes shall be practised. Such programmes shall include structures and equipment within process buildings and outside yards.

*Reason : To provide for the protection of the environment by way of control of materials handling in the operation of the activity.*

## Condition 6 Emissions to Atmosphere

- 6.1 No specified emission to the atmosphere shall exceed the emission limit value set out in *Schedule 1(i) Emissions to Atmosphere*, subject to Condition 3 of this licence. There shall be no other emission to the atmosphere of environmental significance.

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- 6.2 Monitoring and analyses of each emission shall be carried out as specified in *Schedule 1(ii) Monitoring of Emissions to Atmosphere* of this licence. A report on the results of this monitoring shall be submitted to the Agency monthly.
- 6.3 All equipment, including backup equipment, specified in *Schedule 1(iii) Emissions to Atmosphere - Abatement/Treatment Control* of this licence shall be provided on-site. All treatment/abatement, control and monitoring equipment shall be calibrated and maintained when in use, in accordance with the information submitted in Table 12(ii) of the IPC licence application or as otherwise approved by the Agency under the Environmental Management Programme.
- 6.4 A summary report of emissions to atmosphere shall be submitted to the Agency as part of the AER. The information contained in this report shall be prepared in accordance with any relevant guidelines issued by the Agency.
- 6.5 The licensee shall provide a proposal to the Agency to examine and assess the feasibility of strategies for the reduction of odour from activities being carried out on site, within six months of date of grant of licence.
- 6.6 The licensee shall ensure that all operations on-site shall be carried out in a manner such that air emissions and/or odours do not result in significant impairment of, or significant interference with amenities or the environment beyond the site boundary.

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

## Condition 7 Emissions to Water

- 7.1 No specified emission to water shall exceed the emission limit values set out in *Schedule 2(i) Emissions to Water*, subject to Condition 3 of this licence. There shall be no other emissions of environmental significance to the River Suir.
- 7.2 The equipment, including backup equipment, specified in *Schedule 2(iii) Effluent Treatment Control* of this licence, shall be provided on-site. All treatment/abatement, control and monitoring equipment shall be calibrated and maintained at all times when in use, in accordance with the information submitted in Table 13A(iii) of the IPC licence application or as otherwise approved by the Agency under the EMP.
- 7.3 The licensee shall ensure provision of a stand-by electricity supply.
- 7.4 Monitoring and analyses of each emission shall be carried out as specified in *Schedule 2(ii) Monitoring of Emissions to Water* of this licence. A report on the results of this monitoring shall be submitted to the Agency monthly.
- 7.5 A summary report of emissions to water shall be submitted to the Agency as part of the AER. The information contained in this report shall be prepared in accordance with any relevant guidelines issued by the Agency.

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- 7.6 The acute toxicity of the undiluted final effluent to at least four aquatic species from different trophic levels shall be determined by standardised and internationally accepted procedures and carried out by a competent laboratory. The name of the laboratory and the scope of testing to be undertaken shall be submitted, in writing, to the Agency, within three months of the date of grant of this licence. Once the testing laboratory and the scope of testing have been agreed by the Agency, the Agency shall decide when this testing is to be carried out and copies of all reports shall be submitted by the testing laboratory simultaneously to the Agency and the licensee.
- 7.7 Having identified the most sensitive species outlined in Condition 7.6, subsequent compliance toxicity monitoring on the two most sensitive species shall be carried out by the laboratory identified in Condition 7.6 as per *Schedule 2(ii) Monitoring of Emissions to Water*. The Agency shall decide when this testing is to be carried out and copies of all reports shall be submitted by the testing laboratory simultaneously to the Agency and the licensee.
- 7.8 No substance shall be discharged in a manner, or at a concentration which, following initial dilution, causes tainting of fish or shellfish.
- 7.9 The licensee shall, within six months of date of grant of licence, provide a proposal to the Agency which will detail plans to apply the findings of the on-site pilot plant to the main WWTP. These proposals shall specifically address reductions in Ammonia emissions from the plant.

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

## Condition 8 Waste Management

- 8.1 Disposal or recovery of waste shall take place only as specified in *Schedule 3(i) Hazardous Wastes for Disposal/Recovery*, and *Schedule 3(ii) Other Wastes for Disposal/Recovery* of this licence and in accordance with the appropriate National and European legislation and protocols. No other waste shall be disposed of/recovered either on-site or off-site without prior notice to, and prior written agreement of, the Agency.
- 8.2 Waste sent off-site for recovery or disposal shall only be conveyed to a waste contractor, as agreed by the Agency, and only transported from the site of the activity to the site of recovery/disposal in a manner which will not adversely affect the environment.
- 8.3 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 as a minimum contain details of the following:
- 8.3.1 The names of the agent and transporter of the waste.
  - 8.3.2 The name of the persons responsible for the ultimate disposal/recovery of the waste.
  - 8.3.3 The ultimate destination of the waste.
  - 8.3.4 Written confirmation of the acceptance and disposal/recovery of any hazardous waste consignments sent off-site.

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- 8.3.5 The results of any analyses required under *Schedule 3(iii) Waste Monitoring and Analysis*
- 8.3.6 The tonnages and EWC code for the waste material listed in *Schedule 3(i) Hazardous Wastes for Disposal/Recovery* and *Schedule 3(ii) Other Wastes for Disposal/Recovery*, sent off-site for disposal/recovery.
- 8.3.7 Details of any rejected consignments.
- 8.4 A copy of this Waste Management record shall be submitted to the Agency as part of the AER for the site.
- 8.5 Where wastes are destined for landspreading the following conditions apply:
- 8.5.1 Waste destined for landspreading shall be analysed in accordance with *Schedule 3 (iii) Waste Monitoring and Analysis* of this licence.
- 8.5.2 All contractors and agents undertaking landspreading must be as outlined in the IPC licence application. Alterations to this must be agreed in writing and in advance with the Agency.
- 8.5.3 All lands where waste from the licensed activity is to be landspread must be as outlined in the IPC licence application. Alterations to this landbank must be agreed in writing and in advance with the Agency.
- 8.5.4 The licensee shall require that lands within the landbank receiving organic wastes from the facility to which this licence relates do not accept off-farm organic waste not included in the Nutrient Management Plan.
- 8.5.5 All landspreading activities shall be undertaken in accordance with a Nutrient Management Plan. The plan shall address a one year period as a minimum. The plan shall be prepared to the satisfaction of the Agency. The plan shall be reviewed annually and amendments thereto notified to the Agency before the First of February of each year.
- 8.5.6 The licensee shall ensure that all landspreading operations off-site shall be carried out in a manner such that air emissions and/or odours do not result in significant impairment of, or significant interference with amenities or the environment.
- 8.5.7 All landspreading activities shall be carried out in such a manner as to avoid contamination of surface waters and groundwaters.
- 8.5.8 Landspreading shall be carried out in accordance with *Schedule 3(iv) Buffer Zones for Landspreading of Organic Wastes*, and *Schedule 3(v) Code of Practice for Landspreading*.
- 8.5.9 The licensee shall within twelve months of the date of grant of this licence present a report to the Agency on the provision of four months storage capacity for organic waste. This report shall be prepared to the satisfaction of the Agency and shall detail proposals and a timeframe for the installation of any additional purpose built storage structures deemed necessary. The four months storage capacity shall be available within twelve months from the date of grant of licence

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- 8.6 An organic waste register shall be maintained on site and shall be available for inspection by authorised personnel of the Agency at all reasonable times. This register shall include details of the following: the results of any analysis required under *Schedule 3(iii) Waste Monitoring and Analysis*, date of spreading, contractor/agent spreading organic waste, weather conditions at the time and weather forecast for subsequent 48 hours, nutrient requirements for individual fields/plots, volumes of organic waste applied to individual fields/plots, Chromium load applied to individual fields/plots. Summary details from the organic waste register should be reported to the Agency annually as part of the AER.

*Reason: To provide for the disposal of waste and the protection of the environment.*

## Condition 9 Noise

- 9.1 Activities on-site shall not give rise to noise levels off site, at any noise sensitive locations, which exceed the following sound pressure limits (Leq, 15min) subject to Condition 3 :
- 9.1.1 Daytime: 55 dB(A)
- 9.1.2 Night-time: 45 dB(A)
- 9.2 There shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at any noise sensitive location.
- 9.3 The licensee shall carry out a noise survey of the site operations biennially. The licensee shall consult with the Agency on the timing, nature and extent of the survey and shall develop a survey programme to the satisfaction of the Agency. The survey programme shall be submitted to the Agency in writing at least one month before the survey is to be carried out. A record of the survey results shall be available for inspection by any authorised persons of the Agency, at all reasonable times and a summary report of this record shall be included as part of the AER.

*Reason: To provide for the protection of the environment by control of noise.*

## Condition 10 Non-Process Water

- 10.1 Surface water
- 10.1.1 A visual examination of the surface water discharge shall be carried out weekly.
- 10.1.2 The licensee shall operate a continuous pH and Conductivity monitor on the primary surface water discharge point (EW - 2). Surface water falling outside the ranges as stated in *Schedule 6(i) Surface Water Discharge Monitoring*, shall result in Surface Water being diverted to WWTP.
- 10.1.3 In the event that any analyses or observations made on the quality or appearance of surface water runoff should indicate that contamination has taken place, the licensee shall
- (i) carry out an immediate investigation to identify and isolate the source of the contamination,

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(ii) put in place measures to prevent further contamination and to minimise the effects of any contamination on the environment,

(iii) and notify the Agency as soon as is practicable.

#### 10.2 Firewater Retention.

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

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

10.2.3 The licensee shall have regard to the Environmental Protection Agency Draft Guidance Note to Industry on the Requirements for Fire-Water Retention Facilities when implementing Conditions 10.2.1 and 10.2.2 above.

#### 10.3 Groundwater

10.3.1 Groundwater monitoring point AGW -1 (Inflow of water holding tank), shall be sampled and analysed bi-annually in accordance with *Schedule 4(ii) Ambient Groundwater Monitoring* of this licence. A report of such results shall be submitted annually as part of the AER.

#### 10.4 Facilities for the Protection of Groundwater and Surface Water

10.4.1 All chemical storage tanks referred to in the letter of twenty fourth of February 1998 (Attachment 23, IPC Licence Application), shall be bunded as described in said letter and shall be rendered impervious to the materials stored therein. In addition, 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

(ii) 25% of the total volume of substance which could be stored within the bunded area.

Drainage from bunded areas shall be diverted for collection and safe disposal. All bunds shall be tested at least once every three years. A report on such tests shall be included in the AER.

10.4.2 Alternatives to the present system of diverting certain bunded liquids to WWTP shall be examined in the EMP, as outlined in *Schedule 7(i) Recording and Reporting to the Agency*

10.4.3 The integrity and water tightness of all the bunding structures and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee to the satisfaction of the Agency and shall be reported to the Agency, within three months of construction of bunds.

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- 10.4.4 The loading and unloading of materials shall be carried out in designated areas protected against spillage and leachate run - off. While awaiting disposal, all materials shall be collected and /stored in designated areas protected against spillage and leachate run - off.
- 10.4.5 All pump sumps or other treatment plant chambers from which spillage might occur shall be fitted with high liquid level alarms within twelve months from the date of grant of this licence.
- 10.4.6 The licensee shall undertake a programme of testing and inspection of underground tanks and pipelines to ensure that all underground effluent and foul sewer pipes are tested at least once every three years. A report on such tests shall be included in the AER.
- 10.4.7 An inspection for leaks on all flanges and valves on over-ground pipes used to transport materials other than water shall be carried out weekly.
- 10.4.8 The licensee shall have in storage an adequate supply of containment booms and suitable absorbent material to contain and absorb any spillage.

*Reason: To provide for the protection of surface waters and groundwater.*

## Condition 11 Monitoring

- 11.1 The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as set out in Schedules:-
- Schedule 1(ii) Monitoring of Emissions to Atmosphere*
  - Schedule 1(iii) Emissions to Atmosphere-Abatement/Treatment Control*
  - Schedule 2(ii) Monitoring of Emissions to Water*
  - Schedule 2(iii) Effluent Treatment Control*
  - Schedule 3(iii) Waste Monitoring and Analysis*
  - Schedule 4(i) Ambient Surface Water Monitoring*
  - Schedule 4(ii) Ambient Groundwater Monitoring*
  - Schedule 4(iii) Ambient Soil Monitoring*
  - Schedule 5(i) Noise Monitoring*
  - Schedule 6 (i) Surface Water Discharge Monitoring*
- of this licence.
- 11.2 Where the ability to measure a parameter is affected by mixing before emission, then, with prior written agreement from the Agency, the parameter may be assessed before mixing takes place.
- 11.3 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. Prior written agreement for the use of alternative equipment, other than in emergency situations, shall be obtained from the Agency.

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- 11.4 Monitoring and analysis equipment shall be operated and maintained as necessary so that monitoring accurately reflects the emission or discharge.
- 11.5 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended with the written agreement of the Agency following evaluation of test results.
- 11.6 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.
- 11.7 The licensee shall provide safe and permanent access to the following sampling and monitoring points:
- 11.7.1 Final effluent as discharged from the site.
  - 11.7.2 Emission to atmosphere sampling points.
  - 11.7.3 Waste storage areas on-site.
  - 11.7.4 Noise sources on-site.
  - 11.7.5 Surface waters discharge.
- and safe access to any other sampling and monitoring points required by the Agency.
- 11.8 The licensee shall maintain a weather monitoring station on the site, which records conditions of wind speed and wind direction.
- 11.9 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.

*Reason: To ensure compliance with the requirements of other conditions of this licence by provision of a satisfactory system of measurement and monitoring of emissions.*

## Condition 12 Recording and Reporting to Agency

- 12.1 The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence.
- 12.2 The licensee shall record all incidents which affect the normal operation of the activity and which may create an environmental risk.
- 12.3 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. The licensee shall submit a report to the Agency, during the month following such complaints, giving details of any complaints which arise. A summary of the number and nature of complaints received shall be included in the AER.
- 12.4 The format of all records required by this licence shall be to the satisfaction of the Agency. Records shall be retained on-site for a period of not less than seven years and shall be available for inspection by the Agency at all reasonable times.

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- 12.5 Reports of all recording, sampling, analyses, measurements, examinations, calibrations and maintenance as set out in *Schedule 7(i) Recording and Reporting to the Agency* of this licence, shall be submitted to the Agency Headquarters as specified in this licence. The format of these reports shall be to the satisfaction of the Agency. One original and three copies shall be submitted as and when specified.
- 12.6 Provision shall also be made for the transfer of environmental information, in relation to this licence, to the Agency's computer system, as may be requested by the Agency.
- 12.7 All reports shall be certified accurate and representative by the licensee's Plant Manager or other senior officer designated by the Plant Manager.
- 12.8 All written procedures controlling operations affecting this licence shall be available on-site for inspection by the Agency at all reasonable times.
- 12.9 The frequency and scope of reporting, as set out in this licence, may be amended with the written agreement of the Agency following evaluation of test results.

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

### Condition 13 Emergency Response

- 13.1 The licensee shall ensure that an 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.

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

### Condition 14 Financial Provisions

#### 14.1 Agency Charges

14.1.1 The licensee shall pay to the Agency an annual contribution of £6,665 or such other sum as the Agency from time to time determines, towards the cost of monitoring the activity as the Agency considers necessary for the performance of its functions under the Environmental Protection Agency Act, 1992. The licensee shall in 1999 and subsequent years, not later than January 31 of each year, pay to the Agency this amount updated in accordance with changes in the Consumer Price Index from the date of the licence to the renewal date. The updated amount shall be notified to the licensee by the Agency. For 1998, the licensee shall pay a pro rata amount from the date of this licence to December 31 1998. This amount shall be paid to the Agency within one month of the grant of this licence.

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

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### Schedule 1(i) Emissions to Atmosphere

**Emission Point Reference No's.:** EA - 1, EA - 2, EA - 3, EA - 4, EA - 5, and EA - 6  
**Location :** Process building 1  
**Volume to be emitted:** Maximum in any one day : 847,800 m<sup>3</sup>  
 Maximum rate per hour : 35,325 m<sup>3</sup>  
**Minimum discharge height:** 10m

Parameter	Emission Limit Value
Hydrogen Sulphide, Sulphides and Mercaptans (as S)	5ppm
Ammonia	40ppm

**Emission Point Reference No.:** EA7 - Chrome scrubber unit  
**Location :** Process building 1  
**Volume to be emitted:** Maximum in any one day : 9336 m<sup>3</sup>  
 Maximum rate per hour : 389 m<sup>3</sup>  
**Minimum discharge height:** 8m

Parameter	Emission Limit Value
Acid vapours (as HCl)	30mg/Nm <sup>3</sup>

**Emission Point Reference No.:** EA10 - Fan over processors 3,4,5 and 6.  
**Location :** Process building 1  
**Volume to be emitted:** Maximum in any one day : 855,360 m<sup>3</sup>  
 Maximum rate per hour : 35,640 m<sup>3</sup>  
**Minimum discharge height:** 9m

Parameter	Emission Limit Value
Hydrogen Sulphide, Sulphides and Mercaptans (as S)	5ppm
Ammonia	40ppm

**Emission Point Reference No.:** EA12 - Emission from Fleshings Recycling Plant.  
**Location :** Process building 1  
**Volume to be emitted:** Maximum in any one day : 162,000 m<sup>3</sup>  
 Maximum rate per hour : 6,750 m<sup>3</sup>  
**Minimum discharge height:** 10m

Parameter	Emission Limit Value
Amines	5ppm
Hydrogen Sulphide, Sulphides and Mercaptans (as S)	5ppm
Ammonia	40ppm

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### Schedule 1(ii) Monitoring of Emissions to Atmosphere

Emission Point Reference No's.: EA - 1, EA - 2, EA - 3, EA - 4, EA - 5, and EA - 6

Parameter	Monitoring Frequency	Analysis Method/Technique
Hydrogen Sulphide, Sulphides and Mercaptans (as S)	Weekly	Electrochemical gas monitor <sup>Note 1</sup>
Ammonia	Weekly	Electrochemical gas monitor <sup>Note 1</sup>
Mercaptans.	Annually	Colourimetric Indicator Tubes

Emission Point Reference No.: EA7 - Chrome scrubber unit

Parameter	Monitoring Frequency	Analysis Method/Technique
Acid vapours (as HCl)	Monthly	Electrochemical gas monitor <sup>Note 1</sup>

Emission Point Reference No.: EA10

Parameter	Monitoring Frequency	Analysis Method/Technique
Hydrogen Sulphide, Sulphides and Mercaptans (as S)	Weekly	Electrochemical gas monitor <sup>Note 1</sup>
Ammonia	Weekly	Electrochemical gas monitor <sup>Note 1</sup>

Emission Point Reference No.: EA12

Parameter	Monitoring Frequency	Analysis Method/Technique
Amines	Weekly	Colourimetric method
Hydrogen Sulphide, Sulphides and Mercaptans (as S)	Weekly	Electrochemical gas monitor <sup>Note 1</sup>
Ammonia	Weekly	Electrochemical gas monitor <sup>Note 1</sup>

Note 1: Or an equivalent method acceptable to the Agency.

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**Schedule 1(iii) Emissions to Atmosphere - Abatement/Treatment Control.**

Emission Point Reference No.: EA 7  
 Description of Treatment: Chrome Recovery Scrubber  
 Monitoring :

Monitoring to be carried out	Monitoring Frequency	Monitoring Equipment/Method	Backup equipment
<ul style="list-style-type: none"> <li>Scrubbing solution pH</li> </ul>	Continuous	pH/Redox probe	Spare pH probe

Emission Point Reference No.: EA 12  
 Description of Treatment: Fleshing Recycling Plant Scrubber  
 Monitoring :

Monitoring to be carried out	Monitoring Frequency	Monitoring Equipment/Method	Backup equipment
<ul style="list-style-type: none"> <li>Scrubbing solution pH</li> </ul>	Daily	pH/Redox probe	Spare pH probe

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### Schedule 2(i) Emissions to Water

Emission Point Reference No.: EW - 1

Name of Receiving Waters: River Suir

Location : Killowen, Portlaw, Co. Waterford.  
 Grid reference: S4751 1836 (As shown in drawing IPC9)

Volume to be emitted:

- Maximum in any one day 700 m<sup>3</sup>Note 1
- Maximum rate per hour 87.5 m<sup>3</sup>Note 1

Time of emission: Effluent shall only be discharged during four hours of ebbing tides, commencing half an hour after the ebb tide begins and terminating one and a half hours before the ebb tide ceases. <sup>Note 2</sup>

Parameter	Emission Limit Value	
	Until 30 April 2000	From 1 May 2000
Temperature	25°C (max.)	
pH	6-9	
Toxicity	10 TU	
Fish tainting	No tainting	
	mg/l	mg/l
BOD <sup>Note 1</sup>	200	100
Suspended Solids <sup>Note 1</sup>	300	150
Total Ammonia (as N) <sup>Note 1</sup>	225	20
Total Oxidised Nitrogen (as N) <sup>Note 1</sup>	-	50
ortho-Phosphate <sup>Note 1</sup>	6	2
Total Phosphorus (as P) <sup>Note 1</sup>	9	3
Cr (III) <sup>Note 1</sup>	0.5	0.5
Cr(VI) <sup>Note 1</sup>	0.1	0.1
Sulphide (as S) <sup>Note 1</sup>	2	1
Phenols <sup>Note 1</sup>	1	1
Oils, Fats and Grease <sup>Note 1</sup>	15	15

Note 1: Increased flow volumes up to a maximum of 1,000 m<sup>3</sup>/day and 125 m<sup>3</sup>/day and 125 m<sup>3</sup>/hour are permitted provided the specified ELV's are reduced pro rata

Note 2: This restriction on time of discharge applies until 30 April 2000 (or sooner subject to the prior written agreement of the Agency if the lower Emission Limit Values in column three above can be achieved before the said date).

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## Schedule 2(ii) Monitoring of Emissions to Water

Emission Point Reference No.: EW - 1

Parameter	Monitoring Frequency	Analysis Method/Instrument
Flow	Continuous	On-line flow meter with recorder
Temperature	Continuous	On-line temperature probe with recorder
pH	Continuous	pH electrode/meter and recorder
Chemical Oxygen Demand	Daily	Standard Method
Biochemical Oxygen Demand	Daily	Standard Method
Suspended Solids	Daily	Standard Method
Chromium (total Cr)	Daily	Standard method
Sulphides (as S)	Daily	Standard Method
Ammonia (as N)	Daily	Ion selective electrode
Total Nitrogen (as N)	Weekly	Standard Method
Total Nitrogen (Kjeldahl)	Weekly	Standard Method
Total Phosphorus (as P)	Weekly	Standard Method
ortho-Phosphate (as P)	Weekly	Standard Method
Oils, fats & greases	Weekly	Standard Method
Chloride	Weekly	Standard Method
Phenols	Weekly	Standard Method
Preventol WB <sup>Note 2</sup>	Quarterly	Standard Method
Chromium (as Cr VI)	Annually	Standard Method
Toxicity <sup>Note 3</sup>	Annually (24 hour flow proportional composite)	To be agreed with the Agency

Note 1: Upon receipt of test results, the frequency of monitoring shall be reviewed by the Agency.

Note 2: Detection limit of  $\leq 1 \mu\text{g/l}$ .

Note 3: The number of toxic units (Tu) =  $100 \times \text{hour EC/LC50}$  in percentage vol/vol so that higher Tu values reflect greater levels of toxicity. For test regimes where species death is not easily detected, immobilisation is considered equivalent to death.

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**Schedule 2(iii) Effluent Treatment Control**

Emission Point Reference No.: EW1

Description of Treatment: Waste Water Treatment

**Monitoring :**

Monitoring to be carried out	Monitoring Frequency	Monitoring Equipment/Method	Backup equipment
<ul style="list-style-type: none"> <li>Sulphide oxidation tanks               <ul style="list-style-type: none"> <li>- Sulphide (effluent)</li> </ul> </li> </ul>	Per batch	Standard method	-
<ul style="list-style-type: none"> <li>Chrome recovery               <ul style="list-style-type: none"> <li>- Cr (total) [influent]</li> <li>- Cr (total) [effluent]</li> <li>- pH (Cr precipitation)</li> </ul> </li> </ul>	Weekly Daily Continuous	Standard method Standard method pH probe	- - Spare probe
<ul style="list-style-type: none"> <li>Balancing tank               <ul style="list-style-type: none"> <li>- pH</li> <li>- Dissolved Oxygen</li> <li>- BOD (effluent)</li> <li>- COD (effluent)</li> <li>- Total Kjeldahl Nitrogen</li> </ul> </li> </ul>	Continuous Daily Twice weekly Daily Weekly	pH probe DO Meter/Recorder Standard method Digestion/Colourimetric Standard method	Spare probe Spare DO meter - - -
<ul style="list-style-type: none"> <li>Secondary system (Aeration Basins)               <ul style="list-style-type: none"> <li>- Temperature</li> <li>- pH</li> <li>- Dissolved Oxygen</li> <li>- Sludge Volume Index</li> <li>- Mixed Liquor Suspended Solids</li> <li>- Sludge floc microscopy</li> </ul> </li> </ul>	Continuous Continuous Continuous Daily Daily Daily	Temperature probe pH probe DO Meter/Recorder Standard Methods Standard Methods Standard Methods	- Spare probe Spare DO meter - - -
<ul style="list-style-type: none"> <li>Clarifiers               <ul style="list-style-type: none"> <li>- Returned sludge suspended solids</li> <li>- COD(final effluent)</li> <li>- pH (final effluent)</li> </ul> </li> </ul>	Weekly Daily Continuous	Standard methods Standard methods pH probe	- - Spare probe

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**Equipment:**

Control Parameter	Equipment	Backup equipment
<ul style="list-style-type: none"> <li>Sulphide oxidation tanks:                             <ul style="list-style-type: none"> <li>- Sulphide oxidation</li> <li>- Dissolved oxygen</li> </ul> </li> </ul>	Manganese Sulphate Dosing Pump Venturi aerator	Spares held on site Spares held on site
<ul style="list-style-type: none"> <li>Balancing:                             <ul style="list-style-type: none"> <li>- pH</li> <li>- Aeration</li> <li>- Pumping</li> <li>- Mixing</li> </ul> </li> </ul>	Caustic Dosing Pump Aerator Forward-Feed pump Mixer	Spares held on site Spares held on site Spares held on site Spares held on site
<ul style="list-style-type: none"> <li>Flocculation                             <ul style="list-style-type: none"> <li>- Suspended solids</li> </ul> </li> </ul>	Ferric chloride dosing pump	Spares held on site.
<ul style="list-style-type: none"> <li>Chrome recovery                             <ul style="list-style-type: none"> <li>- % Solids in filter cake</li> <li>- pH (precipitation tank)</li> <li>- Mixing</li> </ul> </li> </ul>	Plate press Caustic Dosing pumps Mixer	Spares held on site Spares held on site Spares held on site
<ul style="list-style-type: none"> <li>Aeration basins:                             <ul style="list-style-type: none"> <li>- Dissolved Oxygen</li> <li>- pH</li> </ul> </li> </ul>	Floating aerator Acid/Caustic dosing pump	Spares held on site Spares held on site
<ul style="list-style-type: none"> <li>Sludge Dewatering                             <ul style="list-style-type: none"> <li>- %Solids</li> </ul> </li> </ul>	Pressure belt press	Spares held on site
<ul style="list-style-type: none"> <li>Clarifiers                             <ul style="list-style-type: none"> <li>- Sludge</li> </ul> </li> </ul>	Sludge transfer pumps	Standby pumps and spares held on site
<ul style="list-style-type: none"> <li>Power source</li> </ul>	Mains supplied	Back-up electricity supply
<ul style="list-style-type: none"> <li>De-Nitrification tank                             <ul style="list-style-type: none"> <li>- Mixing</li> </ul> </li> </ul>	Mixer	Spares held on site.

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**Schedule 3(i) Hazardous Wastes for Disposal/Recovery**

Waste Characteristic	Further Treatment, Recovery or Recycling On Site	On-site Recovery	Method of Disposal/Recovery
Laboratory waste (Containing Mercury) Other <small>Note 3</small>	None	None	Agreed hazardous waste recovery contractor.

- Note 1: The licensee may treat, reuse, recycle or recover waste subject to the prior written agreement of the Agency.
- Note 2: Any variation from those contractors named in the IPC Licence application, or subsequent agreements, must have the prior written agreement of the Agency.
- Note 3: No other hazardous waste shall be disposed of/recovered off-site or on site without prior notice to, and prior agreement of the Agency

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**Schedule 3(ii) Other Wastes for Disposal/Recovery**

Waste Materials	Further Treatment, Recovery/Recycling or other	On-Site Re-use	Method of Disposal/Recovery
WWTP Sludge	Lime Stabilisation.	None	Landspreading by agreed disposal contractor <sup>Note 3</sup>
Fleshings	Rendered on-site	None	-
Hair and dung	None	None	Landfill
Leather fibres and cuttings	None	None	Landfill
Pearlite and grease.	None	None	Landfill
Wooden palettes	None	None	Re-use where possible, remainder to agreed disposal contractor
Waste consumables	None	None	Landfill
Domestic and canteen waste	None	None	Landfill
Other <sup>Note 4</sup>			

Note 1: The licensee may treat, reuse, recycle or recover waste subject to the prior written agreement of the Agency.

Note 2: Any variation from those contractors named in the IPC Licence application, or subsequent agreements, must have the prior written agreement of the Agency.

Note 3: Preferably on tillage or reseeded lands.

Note 4: No other waste shall be disposed of/recovered or recovered off-site without prior notice to, and prior written agreement of the Agency.

**Schedule 3(iii) Waste Monitoring and Analysis**

Waste Class	Frequency	Parameters	Method
WWTP Sludge	Per load.	Weight	Standard Methods
WWTP Sludge	Bi-annually	% Dry Matter, Total N, Total P and Total K.	Standard Methods
WWTP Sludge	Quarterly	Cr(VI)	Standard Methods
WWTP Sludge	Quarterly	Cr(III)	Standard Methods
WWTP Sludge	Quarterly	Total Cr	Standard Methods
Other <sup>Note 1</sup>			

Note 1: No other waste shall be disposed of or recovered off-site without prior notice to, and prior written agreement of the Agency.

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### Schedule 3(iv) Buffer Zones for Landspreading of Organic Wastes

No organic waste shall be spread within the following buffer zones:

Area	Buffer zone (m)
Sensitive buildings (hospitals, schools and churches)	200
Dwelling houses	100
Karst features	30
Lakes and main river channels	20
Small watercourses <sup>Note 1</sup>	10
Public Roads <sup>Note 1</sup>	10
Domestic wells <sup>Note 1</sup>	50
Public water supplies <sup>Note 1, Note 2</sup>	50 to 300

Note 1: The above distances to be increased if the gradient is greater than 6% (1:17).

Note 2: The appropriate distance depends on vulnerability and groundwater flow direction.

### Schedule 3(v) Code of Practice for Landspreading of Organic Waste <sup>Note 1</sup>

General conditions for landspreading
<ul style="list-style-type: none"> <li>On wet or waterlogged ground</li> <li>On frozen or snow covered ground</li> <li>On exposed bedrock</li> <li>Where surface gradients are excessive (preferably less than 18% (1:5))</li> <li>On fields that display cracks over pipe or mole drainage systems</li> <li>During November to February inclusive except with agreement by the Agency</li> <li>Outside daylight hours</li> </ul>
Soil testing
<ul style="list-style-type: none"> <li>Application of slurry/manure shall not be made on soils with a Morgan's P test in excess of 15 mg P/litre sampled to a depth of 10 cm.</li> </ul>
Landspreading on lands with extreme groundwater vulnerability ratings <sup>Note 2</sup>
<ul style="list-style-type: none"> <li>Landspreading on lands with extreme groundwater vulnerability ratings <sup>Note 2</sup> would be considered Not Generally Acceptable.</li> <li>WWTP sludge should preferably be spread on tillage or re-seeded lands.</li> <li>Application should be made such that the rate of application of nitrogen from organic wastes does not exceed 250 kg N/ha per annum.</li> <li>No application when the risk of causing odour nuisance to the public is greatest e.g. Sundays or public holidays</li> <li>No application during meteorological conditions which increase the risk of odour nuisance.</li> <li>No application where significant rain is forecast within 48 hours</li> </ul>

Note 1: This Code of Practice may be amended by the Agency as further environmental information becomes available.

Note 2: As defined in D Daly, W P Warren (1997) Mapping Groundwater Vulnerability - The Irish Perspective, Geological Society London, Special Publication (in press).

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### Schedule 4(i) Ambient Surface Water Monitoring

Monitoring Point Reference No's. : <sup>Note 1</sup>

ASW1, adjacent to Plot 2 (Field 69) in IPCL Application  
ASW2, adjacent to Plot 5 (Field 15) in IPCL Application

Parameter	Monitoring Frequency	Analysis Method/Technique
BOD	Annually <sup>Note 2</sup>	Standard Methods
Total Ammonia	Annually <sup>Note 2</sup>	Standard Methods
Total Nitrogen	Annually <sup>Note 2</sup>	Standard Methods
Total Phosphorus	Annually <sup>Note 2</sup>	Standard Methods

Note 1: Additional monitoring points may be necessary with amendments in spreadlands.

Note 2: Monitoring shall be carried out in ASW1 or ASW2 as appropriate, within one month subsequent to landspreading.

### Schedule 4(ii) Ambient Groundwater Monitoring

Monitoring Point Reference No:

AGW - 1 (Inflow of water holding tank on-site)

Parameter	Monitoring Frequency	Analysis Method/Technique
pH	Bi-annually	pH electrode/meter
BOD	Bi-annually	Standard Method
Conductivity	Bi-annually	Standard Method
Preventol WB <sup>Note 2</sup>	Bi-annually	Standard Method
Total Chromium	Bi-annually	Standard Method

Monitoring Point Reference No's <sup>Note 1</sup>:

Two or other number of sites to be agreed with the Agency.

Parameter	Monitoring Frequency	Analysis Method/Technique
Total Chromium	Annually	Standard Method
Nitrate	Annually	Standard Method
Total Ammonia	Annually	Standard Method
K/Na ratio	Annually	Standard Method

Note 1: Additional monitoring points may be necessary with amendments to the spreadlands.

Note 2: Detection limit of  $\leq 1\mu\text{g/l}$ .

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### Schedule 4(iii) Ambient Soil Monitoring

Monitoring Point Reference No's <sup>Note 1, 2</sup>:

For all spreadlands utilised in this IPC licence.

Parameter	Monitoring Frequency	Analysis Method/Reference
Total Chromium	Annually	Standard Methods
Where no soil test available	Within 12 months of grant of licence	Morgan's P test <sup>Note 3</sup>
Where soil test $\leq 10 \text{ mg P l}^{-1}$	Every 2 years	Morgan's P Test
Where soil test $> 10 \text{ mg P l}^{-1}$ but $< 15 \text{ mg P l}^{-1}$	Annually	Morgan's P Test

Note 1: Additional sample monitoring locations may be required if the spreadlands are altered

Note 2: Each sample should be representative of a maximum area of 4 ha except where uniform cropping and landuse has been in place for the previous 5 years or more. In the latter situation a sample area of 12 ha is acceptable. Each sample should be taken in accordance with the Teagasc soil sampling guidelines.

Note 3: M Peach & L English (1944) 'Rapid micro-chemical tests'. Soil Science 57: 167.

### Schedule 5(i) Noise Monitoring

Noise Sensitive Locations

Location Reference	Location Description	Monitoring Frequency
Location 1 (Labelled as EN16 in IPC application)	Occupied private residence	Annually
Location 2 (Labelled as EN17 in IPC application)	Occupied private residence	Annually
Location 3 (Labelled as EN18 in IPC application)	Occupied private residence	Annually
Other <sup>Note 1</sup>		

Note 1: Any other NSL which the Agency deems appropriate.

### Schedule 6 (i) Surface Water Discharge Monitoring

Emission Point Reference No. :

EW - 2 (Stormwater sump)

Parameter	Monitoring Frequency	Analysis Method/Reference
Visual Inspection	Weekly	Visual and odour inspection.
pH	Continuous	On-line pH meter <sup>Note 1</sup>
Conductivity	Continuous	On-line Conductivity meter <sup>Note 2</sup>
Cr (Total)	Quarterly	Standard Method
BOD	Quarterly	Standard Method
Mineral Oils	Quarterly	Standard Method

Note 1: Automatic diversion of surface water to WWTP shall occur if pH deviates outside pH 6-9 range.

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Note 2: Automatic diversion of surface water to WWTP shall occur if conductivity exceeds 2,000  $\mu\text{S}/\text{cm}$ .

### Schedule 7(i) Recording and Reporting to the Agency

Completed reports shall be submitted to:

The Environmental Protection Agency  
Headquarters  
P.O. Box 3000  
Johnstown Castle Estate  
County Wexford

or Any other address as may be specified by the Agency

Reports are required to be forwarded as set out below:

#### Recurring Reports:

Report	Frequency	Report Submission Date
Monitoring of emissions to atmosphere	Monthly	Ten days after end of the month being reported on.
Monitoring of emissions to water	Monthly	Ten days after end of the month being reported on.
Complaints (where these arise)	Monthly	Ten days after end of the month being reported on.
Monitoring of emissions to surface water	Quarterly	Ten days after end of the month being reported on.
Ambient surface water monitoring	Annually	First of February each year, as part of the Nutrient Management Plan.
Ambient groundwater monitoring	Annually	First of February each year, as part of the Nutrient Management Plan.
Ambient soil monitoring	Annually	First of February each year, as part of the Nutrient Management Plan.
Noise Survey	Biennially	Twelve months from the date of grant of licence, and biennially thereafter.
Nutrient Management Plan	Annually	First of February each year.
River Suir sediment/faunal survey - Report	Annually	Six months after the date of grant of licence, and annually thereafter.
Annual Environment Report(AER)	Annually	Eighteen months from the date of grant of licence and each year thereafter.
Pollution Emission Register proposal	Annually	Six months from the date of grant of licence; thereafter as part of the AER.
Environmental management programme - proposal	Annually	Six months from the date of grant of licence; thereafter as part of the AER.
Schedule of Environmental Objectives and Targets	Annually	Four months from the date of grant of licence; thereafter as part of the AER.
Organic Waste Register (where landspreading of organic waste occurs)	Annually	Six months from the date of grant of licence; thereafter as part of the AER.
Waste Minimisation Report	Annually	Six months from the date of grant of licence; thereafter as part of the AER.

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Reports to be Submitted to the Agency
Emissions to atmosphere summary.
Emissions to water summary.
Groundwater monitoring summary.
Waste management report (Including organic waste register summary)
Complaints summary.
Schedule of Environmental Objectives and Targets
Environmental management programme- proposal
Environmental management programme - report
Pollution emission register - report
Reported incidents summary
List I & II substance reductions
Tank and pipeline testing and inspection report

Reports to be Submitted to the WWTP
Achievement of nitrification/denitrification in the WWTP.
General performance of WWTP.
Use of technologies for minimisation of effluent load and volume going to WWTP.
Prevention of bulking in WWTP
Introduction of hair-saving unhairing process.
Resource consumption summary.
Reduction of Cr concentration in WWTP sludge.
Alternatives to WWTP bunding of chemicals stored on-site.

**Once-off Reports:**

Report	Report Submission Date
Proposal for ambient groundwater monitoring locations	Within three months of date of grant of licence
Bund integrity assessment	Within three months of date of grant of licence
Application of the findings of the pilot plant to main WWTP - Proposal.	Within six months of date of grant of licence
Proposal for reduction in odour emissions from activities occurring on-site.	Within six months of date of grant of licence
Programme for public information	Within six months of the date of grant of licence.
Fire-water retention risk-assessment study.	Within six months of the date of grant of licence.
Proposal for the provision of adequate storage of WWTP sludge.	Within twelve months of date of grant of licence
Tank and pipeline testing and inspection report	Within six months of the date of grant of licence.

Signed on behalf of the Agency

Iain MacLean

Dated this 9<sup>th</sup> day of October 1998

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**Attachment B.4 Sanitary Authority**

- A copy of the effluent discharge licence relating to the treatment of effluents at the wastewater treatment plant is attached.

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# WATERFORD COUNTY COUNCIL



## LOCAL GOVERNMENT (WATER POLLUTION) ACTS 1977 & 1990

### LICENCE TO DISCHARGE TRADE EFFLUENT TO WATERS

Reference No: **WPW/03/2004**

Licensee: **Bedminster International (Ireland) Ltd.  
Killowen  
Portlaw  
Co. Waterford**

Licensing Authority: **Waterford County Council**

Date of Licence Issued: **22 October 2004.**

Schedule of Conditions attached to Licence Ref. No. WPW/03/2004

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### 1. Scope of License

- 1.1 This Licence refers to the discharge of trade effluent, sewage effluent and contaminated wastewater from the operations of Bedminster International (Ireland) Limited as stated on the Certificate of Incorporation, registered under the Company Act 1963 - 1977.
- 1.2 The Licensee shall not alter the infrastructure of the licensed premises or treatment system in such a manner so as to lead to a breach of any of the provisions of this license.
- 1.3 This license shall be operated in compliance with the Local Government (Water Pollution) Act 1977 & 1990 and all other relevant current and future Government legislation.

### 2 Management of Facility

- 2.1 The Licensee shall inform the Licensing Authority immediately of any change in ownership of the facilities referred to in this license or any other material facts relating to the company that could effect the compliance with the terms of this License.
- 2.2 The Licensee shall at all times provide free and unhindered access to its premises, to any authorised representative of the Licensing Authority, or any persons nominated by the Licensing authority, or any other authorised persons as defined under Section 28 of the Local Government (Water Pollution) Act 1977, for the carrying out of such inspection, monitoring, reviewing of records and any other investigation that the Licensing Authority deems necessary.
- 2.3 No material change in the quality and / or quantity of the trade effluent to surface water shall be made without prior consent of the Licensing Authority.
- 2.4 No substance shall be discharged in a manner which, or at a concentration which, causes tainting of fish or shellfish, interferes with normal patterns of fish migration or which accumulates in sediments or biological tissues to the detriment of fish, wildlife or their predators.
- 2.5 The Licensee shall forward a list of suppliers of the liquid waste material to be processed in the plant, including the proposed volume for each supplier and a detailed analysis of the material from each supplier. The detailed analysis should include pH, BOD, COD, Nitrates (as N) and Phosphorous and shall also include analysis for such parameters as Waterford County Council may require from time to time. The referred list shall be updated annually or when new suppliers are proposed.

### 3 Storm Water

- 3.1 All uncontaminated storm water from roofs, roadways and other paved areas shall be discharged via an oil interceptor to the River Suir by means of the existing storm water pipeline systems. A readily accessible chamber shall be provided on this pipeline system to allow for sampling of the storm water being discharged. Details of the design and location of this chamber shall be agreed

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with the Licensing Authority within two months of the date of issue of this Licence and shall be constructed and operational within four months of this same date. Under no circumstances shall trade effluent or contaminated surface water be allowed to discharge to these storm water pipelines.

- 3.2 Stormwater pH values outside the range 6.0 to 8.0 and conductivity levels in excess of 1000 $\mu$ S/cm shall result in activation of visual and audible alarms on the control panels and also the automatic activation of a sluice valve to immediately terminate the discharge.
- 3.3 The characteristics of the stormwater shall be sampled at the monitoring chamber at frequencies per the following table and shall not exceed the limits of the following table for grab sampling:

Characteristic	Emission Limit Value	Monitoring Frequency
pH	6.0 - 8.0	Continuous
Conductivity	1000 $\mu$ S/cm	Continuous
Visual Inspection	No discoloration or floating residues	Weekly
BOD	15	Quarterly
Oils Fats and Greases	10	Quarterly

- 3.4 The results of monitoring of the stormwater shall be submitted to the Licensing Authority prior to the 10<sup>th</sup> day of the following month. The format for presentation of the monitoring results shall be agreed with the Licensing Authority within two months of the date of issue of the Licence.

#### **4 Trade Effluent**

- 4.1 All trade effluent and contaminated wastewater shall be discharged after treatment via a single pipeline to the River Suir as indicated in the drawings submitted with the application.
- 4.2 Trade effluent and contaminated waste water shall comprise those arising from the general processing operations and shall include the following:-
- Process wastewater.
  - Aqueous wastes and contaminated run off from bunded areas.
  - Contaminated wastes from truck loading, unloading and storage areas.
  - Contaminated storm and firewater.
  - Floor washings and wash water.
  - Laboratory waste water.
  - Domestic Effluent
- 4.3 The total volume of trade effluent discharged shall not exceed 700m<sup>3</sup>/day and the maximum flow rate shall not exceed 100m<sup>3</sup>/hour or 28 litres/second.
- 4.4 The characteristics of the trade effluent sampled at the monitoring chamber shall not exceed the limits in the following table for grab spot sampling and composite sampling:

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Characteristic	Emission Limit Value	Monitoring Frequency
Temperature °C	25°C	Continuous
pH	6.0-8.5	Continuous
BOD	25mg/l	Weekly
COD	500mg/l	Daily
Suspended Solids (S.S.)	35mg/l	Daily
Ammonia (as N)	5mg/l	Daily
Nitrates (as N)	15mg/l	Daily
Phosphorus (as P)	2mg/l	Weekly
Ortho-Phosphorous	1mg/l	Weekly
Sulphates ( as SO <sub>4</sub> )	100mg/l	Weekly
Chlorides ( as CL)	500mg/l	Weekly
Phenols ( as C <sub>6</sub> H <sub>5</sub> OH)	0.1mg/l	Monthly
Detergents (as MBAS)	10mg/l	Monthly
Fats, Oils and Grease (F.O.G.)	10mg/l	Monthly
Pesticides (atrazine, simazine)	10ug/l	Annually
Solvents( Dichloromethane, Toluene, Xylenes)	100ug/l	Annually
Tributyltin	0.01 ug/l and no reproductive effect in gastropods	Annually
Arsenic	200ug/l	Annually
Chromium (VI)	50 ug/l	Annually
Copper	50 ug/l	Annually
Cyanide	100 ug/l	Annually
Fluoride	5000	Annually
Lead	50	Annually
Nickel	80	Annually
Zinc	400	Annually
Toxicity	1 TU	As required

4.5 The results of monitoring of the discharged trade effluent shall be submitted to the Licensing Authority prior to the 10<sup>th</sup> day of the following month. The format for presentation of the monitoring results shall be agreed with the Licensing Authority within two months of the date of issue of the Licence.

## 5 Monitoring

5.1 A readily accessible monitoring chamber shall be provided on the trade effluent discharge pipeline to the River Suir. This chamber shall incorporate:

- (a) Automatic flow measurement equipment, which shall continuously indicate, integrate, and record the flow in cubic metres/hour and the cumulative daily flow in cubic metres.
- (b) Automatic sampling equipment which shall be capable of sampling the effluent on a continuous basis by means of a composite sampler of flow proportionate and time proportionate type.
- (c) A manual sampling point, the floor of which shall be 255 mm lower than the invert level of the chamber's inlet and outlet, including a removable v-notch weir or other suitable physical means for flow measurement.

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- (d) Continuous automatic pH monitoring, complete with recorder and visual and audible alarms with high (8.5) and low (6.0) settings.
- 5.2 Details of the design and location of this chamber shall be agreed with the Licensing Authority within two months of the date of issue of this Licence and shall be constructed and operational within four months of this same date.
- 5.3 The equipment specified at 5.1 (a), (b), (c) and (d) above shall be in use at all times during which effluent is being discharged. Any malfunction of this equipment shall be immediately notified to the Licensing Authority in writing.
- 5.4 All monitoring equipment should be calibrated as per a schedule to be submitted, in writing, for approval by the Licensing Authority, within two months of the date of issue of the Licence.
- 5.5 The Licence shall, at all times, grant immediate and unhindered access to the factory premises, including the treatment plant and monitoring chambers, to authorised personnel of the Licensing Authority or its authorised agents or any statutory body having statutory responsibilities for water pollution control, to carry such inspections, monitoring and investigations as deemed necessary.

## **6 Self Monitoring**

- 6.1 The Company shall carry out monitoring of its trade effluent prior to entry to the receiving watercourse as follows: -
- (a) Continuous analysis of Flow, Temperature and pH.
- (b) Daily analysis of C.O.D., Suspended Solids, Ammonia and Nitrate based on a Flow Proportionate Composite Sample over the previous 24 hours
- (c) At least once per week a Flow Proportionate Composite Sample shall be taken representing a typical 24-hour production period. These samples shall be analysed for all parameters specified at Condition 4.4 above by an independent reputable analyst or laboratory. The name of this analyst or laboratory shall be submitted in writing to the Licensing Authority for approval within two months of the date of issue of this Licence.
- (d) Parameters which require monthly or other sampling frequencies shall be analysed with the weekly samples as required in Condition 4.4 above
- 6.2 The Licensee shall keep records of all monitoring carried out and all chemicals used and shall retain such records for a period of seven years. These records shall be available for inspection at all reasonable times by authorised personnel of the Licensing Authority or its authorised agents or any body having statutory responsibility for Water Pollution Control. The Licensee shall submit to the licensing Authority, before the tenth day of each calendar month, the results of all monitoring for the previous month referred to above. The format for presentation of results shall be agreed with the Licensing Authority within two months of the date of issue of the Licence.

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- 6.3 The Licensee shall arrange to have an annual biological survey of the River Suir carried out upstream and downstream of the discharge location. These surveys should examine any impact of the discharges from the premises on the densities of the macroinvertebrates. The biological surveys shall be carried out by a reputable independent analyst or laboratory. The name of this analyst or laboratory shall be submitted to the Licensing Authority for approval within four months of the date of issue of the Licence. The number and location of monitoring points shall be agreed with the Licensing Authority at least one month prior to carrying out the surveys. The format for the presentation of the results of these surveys shall be agreed with the Licensing Authority within four months of the date of issue of the Licence. The costs of such testing shall be borne by the Licensee.
- 6.4 Before February 15<sup>th</sup> of each calendar year, the Licensee shall submit an environmental audit, which shall assess compliance with the conditions of this Licence. This audit shall be carried out by an independent agency whose name shall be submitted for approval to the Licensing Authority within two months of the date of grant of this Licence.
- 6.5 All monthly and annual reports shall be signed by the Licensee's plant manager or other senior officer designated by the Licensee.
- 6.6 The Licensing Authority shall reserve the right, at any time, to increase or decrease the frequency of sampling and analyses required.

## 7 Toxicity

- 7.1 Tests to establish the toxicity of the final effluent shall be submitted to the Licensing Authority within 6 months of issue of this Licence, and subsequently determined, if requested in writing by the Licensing Authority. The results shall be submitted to the Licensing Authority within two months of the date of the tests. The costs of such testing shall be borne by the Licensee.
- 7.2 The toxicity of the final effluent, as expressed in Toxic Units (TU), shall be determined with reference to a representative aquatic organism on the basis of a flow-proportionate composite effluent sample. The determination shall be carried out by a reputable and independent analyst or laboratory, whose name and proposed method shall be submitted, in writing, to the Licensing Authority, for approval, at least one month prior to the date of the test.

## 8 Groundwater

- 8.1 The licensee shall agree a programme of groundwater monitoring with the Licensing Authority. This programme shall include the monitoring of a minimum of two borehole wells, one of which shall be located above and one below the site's hydraulic gradient. The programme shall include the monitoring of each well at least once per annum for the following parameters:

Conductivity  
Chloride  
Iron  
Manganese

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pH  
BOD  
COD  
Ammonia  
Nitrates  
Total & Faecal Coliforms

This programme shall also include bi-annual monitoring of the groundwater at the inflow to the water holding tank on-site for the above parameters also. The monitoring programme and the format for presentation of the results shall be agreed with the Licensing Authority within four months of the date of issue of this Licence.

- 8.2 The Licensing Authority shall reserve the right, at any time, to increase or decrease the frequency of sampling and analyses required.

### 9 Treatment Plant

- 9.1 The waste water treatment plant shall be fully constructed, commissioned and operational prior to full commencement of production. All liquid retaining units shall be tested for water tightness. The results of such tests shall be certified by a competent Consulting Engineer and shall be submitted to the Licensing Authority within one month of the date of issue of this Licence.
- 9.2 The licensee shall submit, in writing, for approval a proposal detailing the measures to be employed within the plant to meet the discharge requirements for Phosphorous. This proposal should include any physico-chemical or biological methods that will be used to ensure that the high Phosphorous content of the incoming effluents will be reduced to the discharge limits. This proposal shall be endorsed by a competent Environmental Engineer or Consultant and shall be submitted to the Licensing Authority within one month of the date of issue of this Licence.
- 9.3 The waste water treatment plant shall be managed by a competent operator who shall be adequately trained in all appropriate aspects of waste water treatment. A record shall be kept of all training received by such persons that pertains to waste water treatment.
- 9.4 The licensee shall initiate a maintenance programme for all mechanical and electrical equipment in use in the treatment process or in pollution control. A register shall be kept of all maintenance work carried out on such units and this information shall be made available to the Licensing Authority on request. Duty and standby equipment shall be installed for all critical process stages. A list of such equipment shall be forwarded to the Licensing Authority for approval within 2 months of the date of issue of this Licence.
- 9.5 All pump sumps or other treatment plant chambers or tanks from which spillages might occur shall be fitted with high level alarms. The alarm condition shall be signified by a visual and audible alarm when maintenance staff are present on site and shall be connected to an autodialling communication and messaging system at all other times.

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## **10 Responsible Person**

- 10.1 The Licensee shall nominate suitably qualified persons who shall be responsible for the supervision, control and monitoring of all discharges arising at the premises as well as giving relevant information on all such discharges to the Licensing Authority. At least one of these persons shall be available at all times during which processing is taking place and effluent is being discharged. The names and telephone numbers of these persons shall be submitted, in writing to the Licensing Authority within two months of the date of grant of this Licence.

## **11 Storage Facilities**

- 11.1 All storage tank areas and drum storage areas which contain oils, chemicals or other substances, which are, or could be, harmful to the aquatic environment shall be rendered impervious to the materials stored therein. Additionally, these areas shall be bunded, either locally or remotely, to a volume of 110% of the largest tank within each individual bunded area and/or fitted with interceptors, or otherwise designed to the satisfaction of the Licensing Authority in order to give protection to sewers, surface waters and groundwaters on spillage or seepage of the stored materials.
- 11.2 The integrity and watertightness of all bunded structures and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the Licensee to the satisfaction of the Licensing Authority. A competent Structural Engineer shall certify the results of these tests. The results shall be submitted to the Licensing Authority within two months of the date of the tests.

## **12 Spillages**

- 12.1 The Licensee shall immediately notify the Licensing Authority after the occurrence of any accidental discharge, spillage or deposit of any pollutant or potential pollutant, which enters, or is likely to enter, any waters.

## **13 Waste Management**

- 13.1 All solid waste shall be disposed of in accordance with the statutory legislation in force during the period of the Licence, and in a manner, which would not endanger human health or harm the environment and in particular:-
- (a) create a risk to waters, the atmosphere, land, soil, plants or animals,
  - (b) create a nuisance through noise, odours, or litter or,
  - (c) adversely affect the countryside or places of special interest.
- 13.2 While awaiting disposal, all wastes including empty drums and containers shall be collected and stored at a designated impervious location at the premises to be agreed with the Licensing Authority within two months of the date of issue of the Licence.

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- 13.3 All treatment plant sludges shall be mechanically dewatered to not less than 20% solids prior to landspreading off-site. Any liquid extracted shall be returned to the effluent treatment system. A Nutrient Management Plant (NMP) for the landspreading of these sludges shall be submitted within four months of the date of issue of this Licence and prior to February 1<sup>st</sup> in subsequent years. The NMP shall be endorsed by an independent Agricultural Consultant or other suitably qualified persons. The name of the sludge transporting company along with a copy of the relevant permits, shall be submitted for approval to the Licensing Authority within one month of the date of issue of this Licence.
- 13.4 An analysis of the typical contents of the sludge shall be carried out by an independent laboratory or analyst on an annual basis. The results of such tests should be included with the NMP for the following year and the proposals within the NMP shall have due regard for the results of such analyses. The analyses shall, as a minimum, measure the following parameters:

% Dry Solids  
Nitrogen  
Phosphorous  
Potassium  
Heavy Metals

The name of this analyst or laboratory shall be submitted in writing to the Licensing Authority for approval within two months of the date of issue this Licence.

- 13.5 The Licensee shall keep records of all wastes disposed of off-site and shall retain such records for a minimum period of seven years. These records shall be submitted to the Licensing Authority on a monthly basis in a format to be agreed with the Licensing Authority within two months of the date of issue of this Licence.
- 13.6 No waste shall be disposed of on site by either burial or incineration.

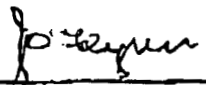
#### 14 Contributions

- 14.1 The Licensee shall pay the Licensing Authority such annual contributions towards its cost in monitoring the discharges and their effects on the receiving waters as the Authority considers necessary for the performance of its duties under the Local Government (Water Pollution) Acts, 1977 and 1990, as follows:
- The contribution for the remainder of 2004 will be €1350.
  - The contribution for 2005 will be €7000.
  - The contribution shall, in subsequent years, be index linked in accordance with the Consumer Price Index from the date of grant of this Licence, to the index value pertaining at the due date of payment of each annual contribution.
  - Notwithstanding the above, the Licensing Authority shall, at all times, reserve the right to alter the annual rate of contribution having regard to monitoring requirements and actual costs incurred.

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Dated this 22nd day of October 2004.

Signed: \_\_\_\_\_

  
**John O'Flynn**  
**Deputy County Manager**

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### **Attachment B.6 Notices and Advertisements**

#### **Site Notice**

- A copy of the site notice is attached. Figure B.6 shows the location of the notice on site.

#### **Newspaper Notice**

- The original application includes the complete newspaper (The Evening Herald) in which the advertisement was placed.
- The relevant page of the newspaper containing the advertisement is included with the 3 copies of the application.

#### **Notice of Application to Planning Authority**

- A copy of the notice of the application to the Planning Authority (Waterford County Council) is attached.

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# Application To The Environmental Protection Agency For A Waste Licence

Advanced Environmental Solutions (Ireland) Limited, Unit 1, Monread Road, Naas, Co. Kildare intends to apply to the Environmental Protection Agency for a Waste Licence for a waste management facility (consisting of plant for wastewater treatment and composting) at Killowen, Portlaw County Waterford - National grid reference S4720 1790. The facility will consist of plant for treatment of up to 100,000 tonnes per annum of non-hazardous waste.

The Principal class of activity at the facility, as specified in the Fourth Schedule of the Waste Management Acts 1996 to 2003 is as follows:

2. *Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes)*

Other activities to be carried out at the facility are as follows:

Under the Third Schedule of the Waste Management Acts 1996 to 2003

6. *Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 7 to 10 of this Schedule*
11. *Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.*
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.*

Under the Fourth Schedule of the Waste Management Acts 1996 to 2003

3. *Recycling or reclamation of metals and metal compounds*
4. *Recycling or reclamation of other inorganic materials*
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*

An Environmental Impact Statement will be submitted to the Agency with the Waste Licence Application.

A copy of the Waste Licence Application, the Environmental Impact Statement, and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the application, will as soon as practicable after receipt by the Agency, be available for inspection or purchase at the headquarters of the Agency.

Signed: \_\_\_\_\_

*J. A. Alley*

Date of erection of site notice: 8 November 2004

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# Placeholder

This page has been inserted to indicate that content has been extracted from this location in the document and has been stored in a separate file.  
(This is due to file size issues.)

The extracted content can be found in the following electronic pdf file:

Application Form-Drawing-7

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**ADVANCED ENVIRONMENTAL SOLUTIONS (IRELAND) LTD.**

UNIT 1, MONREAD COMMERCIAL PARK, MONREAD ROAD,  
 NAAS, CO. KILDARE.  
 PHONE: 045-843800 FAX: 045-981621  
 EMAIL: info@aesirl.ie

Mr. Denis McCarthy  
 Director of Environment, Planning & Emergency Services  
 Waterford County Council  
 Civic Offices  
 Dungarvan  
 Co. Waterford

05 November 2004

**Re: Application to the Environmental Protection Agency for a Waste Licence**

Dear Mr. McCarthy

We wish to inform you that Advanced Environmental Solutions (Ireland) Limited, Unit 1, Monread Road, Naas, Co. Kildare intends to apply to the Environmental Protection Agency for a Waste Licence for a waste management facility at Killowen, Portlaw County Waterford - National grid reference S4720 1790. The facility will consist of plant for treatment of up to 100,000 tonnes per annum of non-hazardous waste.

The Principal class of activity at the facility, as specified in the Fourth Schedule of the Waste Management Acts 1996 to 2003 is as follows:

2. *Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes)*

Other activities to be carried out at the facility are as follows:

Under the Third Schedule of the Waste Management Acts 1996 to 2003

6. *Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 7 to 10 of this Schedule*
11. *Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.*
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.*

Under the Fourth Schedule of the Waste Management Acts 1996 to 2003

3. *Recycling or reclamation of metals and metal compounds*
4. *Recycling or reclamation of other inorganic materials*

REGISTERED OFFICE: UNIT 1, MONREAD COMMERCIAL PARK, MONREAD ROAD, NAAS, CO. KILDARE.  
 REGISTERED IN IRELAND No.: 224173 V.A.T. NO.: IE 8224173 C.

DIRECTORS: P. D'ALTON (CHAIRMAN), P.A. ALLEY (MANAGING DIRECTOR), N. O'MEARA (SECRETARY), M. SHEAHAN, A.C.C.A. (FINANCE),  
 A. BAILEY, E. COBBE, J. COX, P. DANAHAR, J. DOHENY, J. KERRIGAN, M. MORRISSEY, P. O'BRIEN (U.S.A.), B. VAUGHAN, W. G. MCCABE.



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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*

An Environmental Impact Statement will be submitted to the Agency with the Waste Licence Application.

A copy of the Waste Licence Application, the Environmental Impact Statement, and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the application, will as soon as practicable after receipt by the Agency, be available for inspection or purchase at the headquarters of the Agency.

Yours sincerely

P. A. Alley

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**Attachment B.7 Type of Activity**

In accordance with the Third and Fourth Schedules of the Waste Management Acts, 1996 to 2003, it is proposed to carry out the following classes of activity at the facility:

**Waste Disposal Activities, in accordance with the Third Schedule of the Waste Management Acts 1996 to 2003**

<p><b>Class 6.</b></p>	<p><b>Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 7 to 10 of this Schedule.</b></p> <p>This activity relates to the production of composted material not meeting specified compost quality requirements.</p>
<p><b>Class 11.</b></p>	<p><b>Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.</b></p> <p>This activity relates to the blending or mixing of wastes, which cannot be recycled or recovered or do not meet compost standards, prior to disposal off site.</p>
<p><b>Class 13.</b></p>	<p><b>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.</b></p> <p>This activity relates to the storage of waste, which cannot be recycled or recovered or do not meet compost standards, prior to disposal off site.</p>

**Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Acts 1996 to 2003**

<p><b>Class 2.</b> <b>This is the Principal Activity</b></p>	<p><b>Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes):</b></p> <p>This activity relates to the recycling of organic substances including composting and biological treatment of waste at the facility.</p>
<p><b>Class 3.</b></p>	<p><b>Recycling or reclamation of metals and metal compounds:</b></p> <p>This activity relates to the recycling or reclamation of metals and metal compounds prior to further recovery off-site.</p>
<p><b>Class 4.</b></p>	<p><b>Recycling or reclamation of other inorganic materials:</b></p> <p>This activity relates to the recycling or reclamation of inorganic materials prior to further recovery off-site.</p>
<p><b>Class 13.</b></p>	<p><b>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:</b></p> <p>This activity relates to the storage of waste prior to further recovery off-site.</p>

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**SECTION C MANAGEMENT OF THE FACILITY**

Advice on completing this section is provided in the *Guidance Note*.

**C.1 Technical Competence and Site Management**

This information should form **Attachment C 1**.

Details of the applicant's experience and qualifications, along with that of other relevant employees, should be summarised as shown below. Statements of duties, responsibilities, experience and qualifications should be submitted for each position named below. Additional information, including the management structure and an organisational chart, should be included in **Attachment C 1**.

Name	Position	Duties and Responsibilities	Experience /Qualifications

SEE ATTACHMENT C.1

**C.2 Environmental Management System**

**Attachment C 2** should contain the Environmental Management System (EMS) details required.

**C.3 Hours of Operation**

**Attachment C 3** should contain details of hours of operation for the waste facility, civic waste facilities and other facilities.

- (a) Proposed hours of operation.
- (b) Proposed hours of waste acceptance/handling.
- (c) Proposed hours of any construction and development works at the facility and timeframes (required for landfill facilities).
- (d) Any other relevant hours of operation expected.

**C.4 Conditioning Plan**

Address as **Attachment C 4**, in the case of a LANDFILL Application, and only for the review of a Landfill Waste Licence.

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## Attachment C – Management of the Installation

### C.1 Technical Competence and Site Management

The proposed Facility Management Structures is set out in Figure C.1. The list of facility personnel and respective responsibilities is set out below subject to availability of suitable personnel.

*Facility Manager:* Responsible for the overall management of the facility, including license compliance, operations and maintenance of the facility, and personnel management.

*Facility Supervisor:* Responsible for waste acceptance and waste processing at the facility and supervision of staff.

*Site Operatives:* Duties will include waste sorting and maintaining the facility in a tidy state.

*Equipment Operatives:* Responsible for operating machinery to process waste.

*Office Administrator / Weighbridge Operator:* Responsible for weighing in and out vehicles and other office duties.

The minimum number of people needed to operate the site is estimated at 5. It is expected that at least 12 and up to 25 people will be employed at the facility. The staff will be qualified / trained for the relevant position.

### C.2 Environmental Management System

The facility is a proposed facility and an Environmental Management System has not yet been developed.

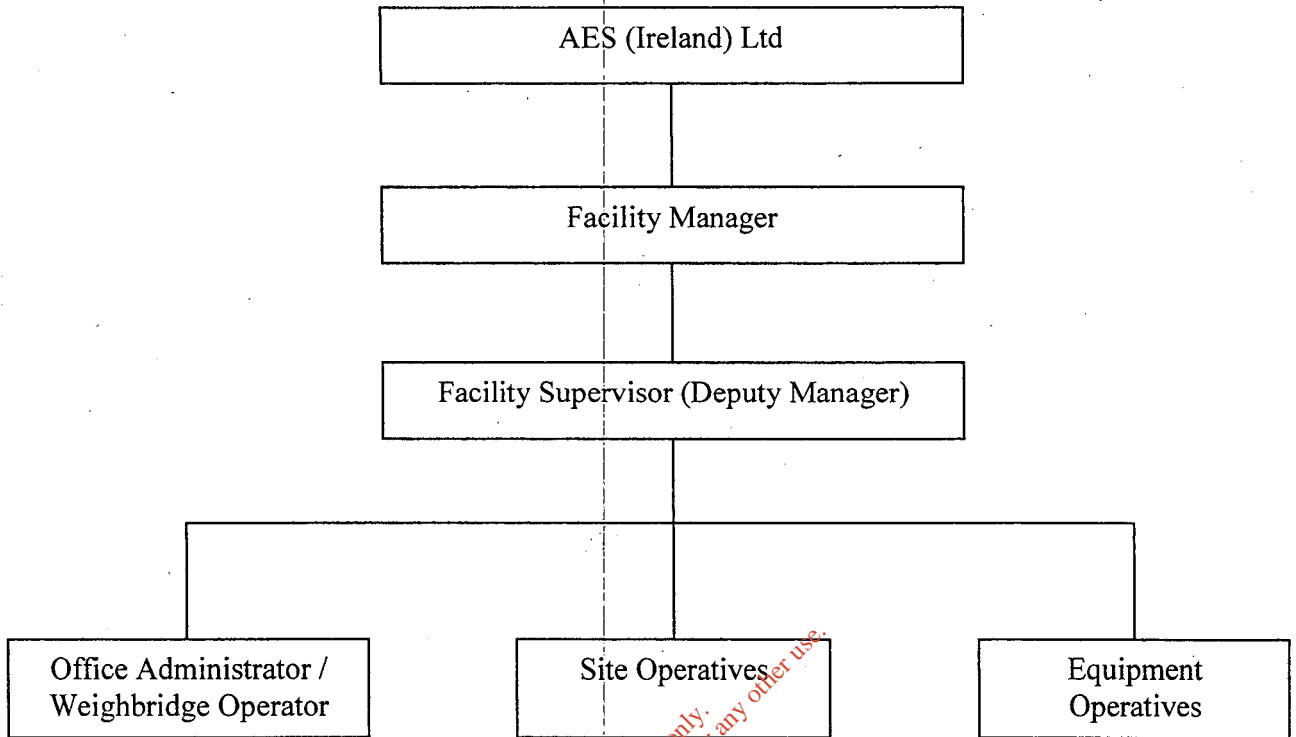
### C.3 Hours of Operation

Waste will be accepted at the Facility Monday to Friday inclusive between the hours of 08.00 to 19.00 and on Saturdays 08.00 to 17.30. Waste handling (sorting, mixing etc) will be from the hours of 07.00 to 20.00 hours Monday to Friday inclusive and 08.00 to 18.00 on Saturdays. The compost plant and wastewater treatment plant will be operated continuously.

Proposed hours of construction and development work at the facility will reflect that of waste acceptance. It is anticipated facility construction and development should take approximately six months.

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**Figure C.1 Facility Management Structure**

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**SECTION D. INFRASTRUCTURE & OPERATION**

**D.1 Infrastructure**

Complete the following table detailing the site infrastructure. **Attachment D 1** should contain the appropriate documentation. Information provided should follow the sequence, and use the headings, established in Table D.1. Additional advice on completing this section is provided in the application *Guidance Note*.

**Table D.1. Infrastructure**

		y/n	Comments
D.1.a	Site security arrangements including gates and fencing	Y	See EIS Section 2
D.1.b	Designs for site roads	Y	See EIS Section 2
D.1.c	Design of hardstanding areas	Y	See EIS Section 2
D.1.d	Plant	Y	See EIS Section 2
D.1.e	Wheel-wash	Y	See EIS Section 2
D.1.f	Laboratory facilities	N	See EIS Section 2
D.1.g	Design and location of fuel storage areas	Y	See EIS Section 2
D.1.h	Waste quarantine areas	Y	See EIS Section 2
D.1.i	Waste inspection areas	Y	See EIS Section 2
D.1.j	Traffic control	Y	See EIS Section 2
D.1.k	Sewerage and surface water drainage infrastructure	Y	See EIS Section 2
D.1.l	All other services	Y	See EIS Section 2
D.1.n	Plant sheds, garages and equipment compound	Y	See EIS Section 2
D.1.n	Site accommodation	Y	See EIS Section 2
D.1.o	A fire control system, including water supply	Y	See EIS Section 2
D.1.p	Civic amenity facilities	N	
D.1.q	Any other waste recovery infrastructure	N	
D.1.r	Composting infrastructure	Y	See EIS Section 2
D.1.s	Construction and Demolition waste infrastructure	N	
D.1.t	Incineration infrastructure (if applicable). Provide information to fulfil Article 4 (2) & (3) of the Incineration of Waste Directive	N	
D.1.u	Any other infrastructure	N	



WASTE Application Form

**D.2 Facility Operation**

In **Attachment D 2** describe the plant, methods, processes and operations of the waste facility, as required by the *Guidance Note*.

<b>Attachment included</b>	<b>yes</b> <input checked="" type="checkbox"/>	<b>no</b> <input type="checkbox"/>	<b>not applicable</b> <input type="checkbox"/>
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**LANDFILLS**

The following Sections D3 to D7 should only be completed for Landfill Applications. Reference should be made to the Agency landfill manual 'Landfill Site Design (2000)' when completing this section.

**NOT APPLICABLE**

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## Attachment D – Facility Design

Details on facility design can be found in Section 2 of the EIS. This includes information on infrastructure, facility operation and materials management.

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**SECTION E EMISSIONS**

Give particulars of the source, location, nature, composition, quantity, level and rate of emissions arising from the activity and, where relevant, the period or periods during which such emissions are made or are to be made.

*The applicant should address in particular any emission point where the substances listed in the Schedule of S.I. 394 of 2004 are emitted.*

**E.1 Emissions to Atmosphere**

Details of all point emissions to atmosphere should be supplied. Table E.1.(i) (for Landfill Gas Flare emissions) must be completed for all landfills with a flare. Complete Table E.1(ii) and E.1(iii) for all other main emission points, including stack sources (incinerator stacks, landfill gas utilisation plants, air handling unit emissions etc.). Complete Table E.1(iv) for minor/fugitive/ground emission points.

**E.2 Emissions to Surface Waters**

**Attachment E.2** Tables E.2(i) and E.2(ii) should be completed where relevant.

**E.3 Emissions to Sewer**

**Attachment E.3** Tables E.3(i) and E.3(ii) should be completed, where relevant.

**E.4 Emissions to Groundwater**

Describe the existing or proposed arrangements necessary to give effect to Articles 3,4,5,6, and 7 of Council Directive 80/68/EEC of 17 December 1979 on the protection of groundwater against pollution by certain dangerous substances.

Table E.4(i) should be completed, as relevant, for each source.

Supporting information should form **Attachment E.4**

**E.5 Noise Emissions**

Give particulars of the source, location, nature, level, and the period or periods during which the noise emissions are made or are to be made.

Table E.5(i) should be completed, as relevant, for each source.

Supporting information should form **Attachment E.5**

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E.6 Environmental Nuisances

Attachment E.6 should contain the appropriate documentation. Information provided should follow the sequence, and use the headings as relevant established in Table D.6. Additional advice on completing this section is provided in the Guidance Note.

TABLE E.6 ENVIRONMENTAL NUISANCES

Bird Control	Control method specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Dust Control	Control method specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Fire Control	Control method specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Litter Control	Control method specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Traffic Control	Control method specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Vermin Control	Control method specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Road Cleansing	Control method specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

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## Attachment E - Emissions

### E.1 Emissions to Atmosphere

See EIS Section 3 for details of emissions to atmosphere.

### E.2 Emissions to Surface Water

See EIS Section 3 for details of emissions to surface water.

### E.3 Emissions to Sewer

Domestic wastewater arising from staff along with leachate from the composting process will be directed to the onsite wastewater treatment plant.

### E.4 Emissions to Groundwater

See EIS Section 3 for details on hydrogeology.

### E.5 Noise Emissions

See EIS Section 3 for details on noise emissions.

### E.6 Environmental Nuisances

#### E.6.1 Bird Control

Birds will be prevented from accessing the waste and compost by use of a fully enclosed system with all waste operations being carried on indoors.

#### E.6.2 Dust Control

See EIS Section 3.1.1 for dust control measures.

#### E.6.3 Fire Control

Fire control measures will include:

- Availability of a water supply.
- Fire hoses and extinguishers will be available at the site.
- Emergency Response Procedure incorporating fire control measures – including what to do and who do contact.
- No unauthorised access to the facility.

#### E.6.4 Litter Control

See EIS Section 3.1.4 for litter control measures.

#### E.6.5 Traffic Control

See EIS Section 3.6 Traffic and EIS Section 2.4.9 Traffic Control

#### E.6.6 Vermin Control

All waste activities will be carried on indoors. To discourage vermin, pest control contractors will be employed on a regular basis.

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**E.6.7 Roads Cleansing**

See EIS Section 3.6.3 for details on roads.

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**SECTION F CONTROL & MONITORING**

**F.1: Treatment, Abatement and Control Systems**

Describe the proposed technology and other techniques for preventing or, where this is not possible, reducing emissions from the installation/facility. Details of treatment/abatement systems (air and effluent emissions) should be included, together with schematics as appropriate.

For each Emission Point identified complete Table F.1 of the Annex, and include detailed descriptions and schematics of all abatement systems.

Attachment F.1 should contain any supporting information.

**F.2- F. 9. Monitoring and Sampling Points**

Programmes for environmental monitoring should be submitted as part of the application. These programmes should be provided as Attachments F.2 to F.6 and meet the advice published by the Agency in the relevant BAT Note. For Landfills the additional Attachments F.7 to F.8 should be completed. Furthermore for a landfill application the applicant must refer to the Agency *Landfill Monitoring Manual (2003)* for further details on monitoring requirements for proposed facilities.

Include details of monitoring/sampling locations and methods.

**F.2 Air**  
- to include Dust, Odour

Monitoring Arrangements specified	yes X	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Monitoring points identified, (plus 12-figure grid references)	yes X	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Attachment included	Yes X	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

See EIS Section 4

**F.3 Surface Water**

Monitoring of surface water shall be carried out at not less than two points, one upstream from the waste facility and one downstream.

Monitoring Arrangements specified	yes X	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Monitoring points identified, (plus 12-figure grid references)	yes X	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Attachment included	yes X	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

See EIS Section 4



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F.4 Sewer Discharge

Monitoring of sewer discharge shall be carried out at the point specified by the local authority/Agency.

Monitoring Arrangements specified	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable X
Monitoring points identified, (plus 12-figure grid references)	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable X
Attachment included	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable X

There will be no sewer discharge

F.5 Groundwater

Groundwater monitoring is required at all landfill facilities; and certain other waste facilities depending on waste activities and the underlying aquifer vulnerability.

Monitoring Arrangements specified	yes <input type="checkbox"/>	no X	not applicable <input type="checkbox"/>
Monitoring points identified, (plus 12-figure grid references)	yes <input type="checkbox"/>	no X	not applicable <input type="checkbox"/>
Attachment included	yes <input type="checkbox"/>	no X	not applicable <input type="checkbox"/>

There will be no emissions to groundwater hence there will not be a need to monitor

F.6 Noise

Monitoring Arrangements specified	yes X	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Monitoring points identified, (plus 12-figure grid references)	yes X	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Attachment included	yes X	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

See EIS Section 4

F.7 Meteorological Data

Monitoring Arrangements specified	yes X	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Monitoring points identified, (plus 12-figure grid references)	yes X	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Attachment included	yes X	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

See EIS Section 4

Application for Landfills require the additional Attachments F.7 to F.8, to be completed:

Not Applicable



**SECTION G RESOURCES USE & ENERGY EFFICIENCY**

**G.1 Raw Materials, Substances, Preparations and Energy**

**Attachment G.1** should contain a list of all raw, product and ancillary materials, substances, preparations, fuels and energy which will be utilised in or produced by the activity. Information on any insecticides, herbicides or rat poisons etc. should also be provided with their respective data and safety sheets. The Standard Forms, provided in Annex 1, should be used in the description of these materials, substances, etc., where relevant. Additional advice on completing this section is provided in the *Guidance Note*.

<b>Attachment included</b>	<b>yes X</b>	<b>no</b> <input type="checkbox"/>	<b>not applicable</b> <input type="checkbox"/>
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**G.2 Energy Efficiency**

A description of the energy used in or generated by the activity must be provided in **Attachment G.2**.

<b>Attachment included</b>	<b>yes X</b>	<b>no</b> <input type="checkbox"/>	<b>not applicable</b> <input type="checkbox"/>
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## Attachment G – Resources Use & Energy Efficiency

### **G.1 Raw Materials, Substances, Preparations and Energy**

See Section 2 of the EIS for details. See Table G.1 for details of Process related Raw Materials, Intermediates, Products, etc., used in the wastewater treatment plant.

### **G.2 Energy Efficiency**

See Section 2 of the EIS for details.

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**Table G.1 Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site**

Ref. N <sup>o</sup> or Code	Material/ Substance <sup>(1)</sup>	CAS Number	Danger <sup>(2)</sup> Category	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	R <sup>(3)</sup> - Phrase	S <sup>(3)</sup> - Phrase
	Alkabuild	Preparation		0.2	1	pH correction		
	Ferric Chloride	10025-77-1	Corrosive	1.5	20	Flocculent/deodoriser	22 34	25 36/37/39 45
	Hydrated Lime	1305-62-0	Corrosive	2	20	pH correction	37/38 41	25/26
	Phosphoric Acid (73%)	7664-38-2	Corrosive	0.5	1	Phosphorous source	34	26 45
	Sulphuric Acid (96%)	7664-93-9	Corrosive	0.5	1	pH correction	35	2 26 30
	Burst PC 72	Preparation		1	5	Anti-foam agent		24/25 26 28 36/37/39
	Zetag 7653	Preparation		.5	6	Flocculent	36	24/25 26 28 36/37/39
	Zetag 7689	Preparation		.5	6	Flocculent	36	24/25 26 28 36/37/39
	CP 2039	Preparation		.5	6	Coagulant		24/25 26 28 36/37/39

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- Notes:
1. In cases where a material comprises a number of distinct and available dangerous substances, please give details for each component substance.
  2. c.f. Article 2(2) of SI N<sup>o</sup> 77/94
  3. c.f. Schedules 2 and 3 of SI N<sup>o</sup> 77/94

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**SECTION H MATERIALS HANDLING**

**H.1 Waste Types and Quantities – Existing & Proposed**

Provide an estimation of the quantity of waste likely to be handled in relation to each class of activity applied for. This information should be included in Table H.1(a).

**TABLE H.1(A). QUANTITIES OF WASTE IN RELATION TO EACH CLASS OF ACTIVITY APPLIED FOR**

Waste Management Act 3rd Schedule (Disposal) Activities		Waste Management Act 4th Schedule (Recovery) Activities	
Class of Activity Applied For	Quantity (tpa)	Class of Activity Applied For	Quantity (tpa)
Class 1		Class 1	
Class 2		Class 2	85,000
Class 3		Class 3	100
Class 4		Class 4	400
Class 5		Class 5	
Class 6	2,000	Class 6	
Class 7		Class 7	
Class 8		Class 8	
Class 9		Class 9	
Class 10		Class 10	
Class 11	5,000	Class 11	
Class 12		Class 12	
Class 13	8,000	Class 13	4,500

In Table H. 1 (B) provide the annual amount of waste handled/to be handled at the facility. Additional information should be included in **Attachment H.1**. The tonnage per annum should be given of that expected for the life of the licence, with at least the next five years tonnages provided. For Landfill Review applications provide an estimate of the quantity of waste already deposited in (i) lined cells; (ii) unlined cells.

**TABLE H.1(B) ANNUAL QUANTITIES AND NATURE OF WASTE**

Year	Non-hazardous waste (tonnes per annum)	Hazardous waste (tonnes per annum)	Total annual quantity of waste (tonnes per annum)
2005	100,000	0	100,000
2006	100,000	0	100,000
2007	100,000	0	100,000
2008 onwards	100,000	0	100,000

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A detailed inventory of the types and quantities of wastes currently handled at the site and proposed to be handled should be submitted as Table H.1 (C).

TABLE H.1 (C) WASTE TYPES AND QUANTITIES

WASTE TYPE	TONNES PER ANNUM (existing)	TONNES PER ANNUM (proposed)	TOTAL (over life of site) tonnes
Household	NOT APPLICABLE	23,000	23,000 per annum
Commercial		8,000 -	8,000 per annum
Sewage Sludge		4,500	4,500 per annum
Construction and Demolition			
Industrial Non-Hazardous Sludges		2,500	2,500 per annum
Industrial Non-Hazardous Solids		2,000	2,000
Hazardous *(Specify detail in Table H 1.2)			
Inert Waste imported for restoration purposes	<b>COMPLETE FOR LANDFILL &amp; CONTAMINATED LAND FACILITIES ONLY</b>		
Other		60,000 (trade/sewage effluent for treatment in the onsite WWTP)	60,000 per annum

\* TABLE H.1.2 HAZARDOUS WASTE TYPES AND QUANTITIES

HAZARDOUS WASTE	DETAILED DESCRIPTION * REFERENCE SHOULD BE MADE TO THE RELEVANT EUROPEAN WASTE CATALOGUE CODES AS PRESENTED BY COMMISSION DECISION 2000/532/EC	Tonnes Per Annum (Existing)	(Tonnes Per Annum Proposed)
Waste Oil			
Oil filters			
Asbestos			
Paint and Ink			
Batteries			
Fluorescent Light Bulbs			
Contaminated Soils			
<b>OTHER HAZARDOUS WASTE (APPLICANT TO SPECIFY)</b>			

Attachment H.1 should contain any relevant additional information.



**It should be noted that an applicant may be issued with a licence which restricts the type of wastes which may be deposited.**

### **H.2 Waste Acceptance Procedures**

Procedures for checking waste loads as they arrive at the facility must be included. These should follow the requirements of the Agency's Waste Acceptance Manual. A copy of these procedures and other associated documentation should be included as **Attachment H.2.**

### **H.3 Waste Handling**

Waste handling and the operating procedures used at the facility including waste treatment processes should be described in **Attachment H.3.** Included in the attachment should be information on the plant used on site and on the methods and processes for handling waste on-site. Special requirements hold for contaminated soil facilities, see *Guidance Note*.

**In addition, an application for a Landfill requires Section H.3.a to be completed:**

#### **H.3a Waste Handling at the Landfill Facility**

State whether all waste will be subject to treatment prior to landfilling. Provide information as to the quantities of biodegradable municipal waste and how the targets of the Landfill Directive (1999/31/EC) relating to that waste type are to be achieved. In particular describe how the following will be achieved:

- (a) a reduction by 16/07/06 to 75% by weight of the total amount of biodegradable municipal waste produced in 1995 or the latest year before 1995 for which standardised Eurostat data is available;
- (b) a reduction by 16/07/09 to 50% by weight of the total amount of biodegradable municipal waste produced in 1995 or the latest year before 1995 for which standardised Eurostat data is available;
- (c) a reduction by 16/07/16 to 35% by weight of the total amount of biodegradable municipal waste produced in 1995 or the latest year before 1995 for which standardised Eurostat data is available;
- (d) Evidence should be provided to show that energy will be used efficiently.

### **H.4 Waste Arisings**

Waste Arisings should be considered for all contaminated soil applications. Details of all waste materials generated on the site including, name, description and nature as well as the source(s) should be identified. The quantities of each type of waste generated on an annual/monthly basis should be calculated and stated in Tables H.1(i) and H. 1(ii) of the application form. Applicants should also provide conversion factors used to relate volume (m<sup>3</sup>) and tonnage (t) for their waste stream.

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## Attachment H – Materials Handling

### H.2 Waste Acceptance Procedures

Details on waste acceptance are provided in Section 2 of the EIS. A Standard Operating Procedure will be developed prior to waste acceptance operations. This will include details of checking waste loads as they arrive and actions to be taken if waste doesn't conform to acceptance procedures. The procedure will also incorporate any licence requirements relating to acceptance of waste.

### H.3 Waste Handling

See Section 2 of the EIS for details.

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## **Attachment I –Existing Environment & Impact of the Facility**

### **I.1. Assessment of atmospheric emissions**

See EIS Section 3.1

### **I.2. Assessment of Impact on Receiving Surface Water**

See EIS Section 3.10

### **I.3. Assessment of Impact of Sewage Discharge**

There will be no emissions to sewer.

### **I.4 Assessment of impact of ground/groundwater emissions**

See EIS Section 3.7

### **I.5 Ground and/or groundwater contamination**

See EIS Section 3.7

### **I.6 Noise Impact.**

See EIS Section 3.9

### **I.7 Assessment of Ecological Impacts & Mitigation Measures**

See EIS Section 3.4

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**SECTION J ACCIDENT PREVENTION & EMERGENCY RESPONSE**

Describe the existing or proposed measures, including emergency procedures, to minimise the impact on the environment of an accidental emission or spillage.

Also outline what provisions have been made for response to emergency situations outside of normal working hours, i.e. during night-time, weekends and holiday periods.

Describe the arrangements for abnormal operating conditions including start-up, leaks, malfunctions or momentary stoppages.

Supporting information should form **Attachment J**.

<b>Attachment included</b>	<b>yes</b> <input checked="" type="checkbox"/>	<b>no</b> <input type="checkbox"/>	<b>not applicable</b> <input type="checkbox"/>
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## Attachment J - Accident Prevention & Emergency Response

### J.1 Accident Prevention & Emergency Response

An Emergency Procedure will be developed prior to facility operation and will deal with unexpected emissions such as odour/dust emissions to air, noise or emission to water and other eventualities e.g. fire, plant breakdown.

The above-unexpected emissions/eventualities are not anticipated however if they do arise they will be dealt with as per the procedure.

The Emergency procedure will include details of persons to contact, emergency services numbers and actions to be taken.

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**SECTION K REMEDIATION, DECOMMISSIONING, RESTORATION AND AFTERCARE**

Describe the existing or proposed measures to minimise the impact on the environment after the activity or part of the activity ceases operation, including provision for post-closure care of any potentially polluting residuals.

For Landfill Applications, capping proposals are required, and reference should be made to the *Landfill Manual on 'Restoration and Aftercare'* published by the Agency, when completing this section.

<b>Attachment included</b>	<b>Yes</b> <input checked="" type="checkbox"/>	<b>no</b> <input type="checkbox"/>	<b>not applicable</b> <input type="checkbox"/>
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## **Attachment K- Remediation, Decommissioning, Restoration & Aftercare**

### **Attachment K.1 Remediation, Decommissioning, Restoration**

It is anticipated that the plant will be operated indefinitely. However if the facility should close for some unforeseen reason all waste and all equipment will be removed from the facility. Waste would be removed to authorised facilities. Equipment would be recycled where possible. The building where waste activities are proposed would remain and would likely be used again.

### **Attachment K.2 Aftercare Management Plan**

There would not be any need for aftercare management as there would be no emissions from the facility once decommissioning has taken place.

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**SECTION L STATUTORY REQUIREMENTS**

**L. 1 Section 40(4) WMA**

Indicate how all the requirements of Section 40(4)[(a) to (i)] of the Waste Management Acts 1996 to 2003 will be met.

Applicants should also describe how the proposed facility will comply with the requirements of BAT. In particular reference should be made to the considerations referred to in Annex IV of Council Directive 96/61/EC concerning integrated pollution prevention and control.

**Attachment L.1** should contain the documentation requested above, along any relevant additional information.

<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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**L.2 Fit and Proper Person**

The WMA in Section 40(4)(d) specifies that the Agency shall not grant a licence unless it is satisfied that the applicant (if the applicant is not a local authority) is a fit and proper person. Section 40(7) of the WMA specifies the information required to enable a determination to be made by the Agency.

- Indicate whether the applicant or other relevant person has been convicted under the Waste Management Acts 1996 to 2003, the EPA Act 1992 and 2003, the Local Government (Water Pollution) Acts 1977 and 1990 or the Air Pollution Act 1987.
- Provide details of the applicant's technical knowledge and/or qualifications, along with that of other relevant employees (Link to Section C.1 of the application).
- Provide information to show that the person is likely to be in a position to meet any financial commitments or liabilities that may have been or will be entered into or incurred in carrying on the activity to which the application relates or in consequence of ceasing to carry out that activity (Link to Section K of the application).

Supporting information should be included as **Attachment L 2** with reference to where the information can be found in the application.

<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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## Attachment L - Statutory Requirements

### L. 1 Section 40(4) Waste Management Act (WMA)

#### Section 40(4)(a) Compliance with Emission Standards:

AES will operate the facility so that it complies with all relevant emissions standards. Since the entire process occurs within a totally enclosed and controlled environment there will be no release of potentially contaminating water to surface water or groundwater's. Treated effluent and uncontaminated surface water will be monitored before release to the River Suir. This is in line with practice at the site under IPC licence Register No. 238. All air from the buildings and process passes through biofilters – a carefully managed natural medium, which can consist of layers of gravel, compost and wood chips. Microorganisms in the biofilter naturally consume odorous compounds eliminating odours. The carrying on of waste activities in doors will ensure dust emissions are minimised. Noise will emit from plant and equipment on site and will attenuate over distance. Noise from the facility will not exceed daytime (55dB(A)) or night time limits (45dB(A)). Further details on emissions can be found in Section 3 of the EIS.

#### Section 40(4)(b) Environmental Pollution:

The proposed design, management and operating practices at the facility will ensure that environmental pollution is avoided. This will include all waste activities related to composting being carried on indoors and the treatment of air from within the building by passing it through a biofilter.

#### Section 40(4)(c) Best Available Technology (BAT) or Best Available Technology Not Entailing Excessive Costs (BATNEEC):

All waste activities related to composting will be carried on indoors and BAT/BATNEEC will be used to minimise emissions to the maximum extent practical.

#### Section 40(4)(cc) Activity consistent with the relevant waste management plan:

The implementation of statutory Waste Management Plans is underway since 2001, generally on a regional basis. The Waste Management Plans contain ambitious targets for waste recycling and energy recovery with the targets of the EU Landfill Directive in mind. Based on surveys carried out during 2003, approximately 15% of municipal waste generated is currently diverted from landfill. By contrast the targets of the Plans typically require up to 90% diversion of MSW from landfill by 2013.

In accordance with Section 22 of the Waste Management Act, the six authorities in the South East Region agreed to make a Joint Waste Management Plan. The local authorities involved in the South East Regional Waste Management Plan are:

1. Waterford County Council
2. Waterford City Council
3. Tipperary South Riding County Council
4. Wexford County Council
5. Kilkenny County Council

## 6. Carlow County Council.

The Waste Plan includes composting as an integral element to deal with the management of waste. The plan enables independently established private entities to provide waste facilities/services in the Region.

The quantities of biodegradable municipal waste to be managed in the Region are discussed in the *National Strategy for Biodegradable Waste - Draft Strategy Report, April 04*, which estimates, based on the overall municipal waste generation in 2001 (9.8% in south east), that the gap in treatment capacity required for biodegradable municipal waste (BMW) in the south east regional to be for 2006 (117,889 tonnes), 2009 (169,177 tonnes) and 2016 (252,611 tonnes). The Draft Strategy indicates the need for central biological facilities with a target capacity of 35,154 tonnes by year 2009 to deal with biodegradable municipal waste in the South East Region.

The South East Regional Waste Plan notes that water and sewage treatment, agriculture and certain industries generate liquid wastes, which contain a high organic solid content. The quantity of non-hazardous sludges in the region, expressed in terms of their solid content extracted from the Waste Plan are set out below.

**Table 1.2 Sludge Arisings in the South-East**

Type	Tonnes Dry Solids (tDS/y)
Sewage	5,287
Water Treatment	1,313
Agricultural	698,853
Non-hazardous Industrial	91,543
<b>Total</b>	<b>796,996</b>

The proposed facility at Portlaoigh, to compost and treat effluents, is ideal for the requirements of the South East Region and will not prejudice measures taken or to be taken by the relevant authorities for the purpose of the implementation of the South East Regional Plan.

### **Section 40(4)(e) the Applicant has complied with requirements under Section 53(Financial Provision):**

The audited accounts for AES for 2002/2003 are included with the application.

AES are committed to meeting the requirements of a waste license. Prior to commencement of waste operations, AES will obtain insurance to cover potential environmental liabilities incurred by the carrying on of the waste activities relating to this application. If for some reason waste operations were to cease at the facility and AES does not envisage this happening; the only costs that would need to be covered would be the removal of waste held at the facility at that time. To cover such an eventuality, AES are willing to provide security that will be payable to the EPA.

**Section 40(4)(f) Energy will be used efficiently:**

The facility will use energy during construction and operation. The facility will use diesel fuel and electricity. Annual audits will be carried out to ensure that energy is being used efficiently.

**Section 40(4)(g) Noise from the activity will comply with any regulations under section 106 of the Act of 1992:**

Noise will emit from plant and equipment on site and will attenuate over distance. Noise from the facility will not exceed daytime (55dB(A)) or night time limits (45dB(A)) and will comply with and will not result in the contravention of any regulations under section 106 of the Act of 1992.

**L. 2 Section 40(4)(d) Fit & Proper Person:**

The applicant can be considered a fit and proper person as defined in the Waste Management Act for the following reasons:

- The applicant has no convictions under the Waste Management Acts, 1996 to 2003, the EPA Act 1992 and 2003, the Local Government (Water Pollution) Acts 1977 and 1990 or the Air Pollution Act 1987;
- Staff with appropriate skills to operate and manage the facility will be employed. See Attachment C.1 for further details;
- Financial provisions will be put in place to address risk liabilities and residual management. The cost of managing, developing, operating, and monitoring the facility will be borne by the applicant.

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WASTE Application Form

SECTION M DECLARATION

Declaration

I hereby make application for a licence / revised licence, pursuant to the provisions of the Waste Management Acts 1996 to 2003 and Regulations made thereunder.

I certify that the information given in this application is truthful, accurate and complete.

I have no objection to the provision by the Agency or local authority of a copy of the application or parts thereof to any person.

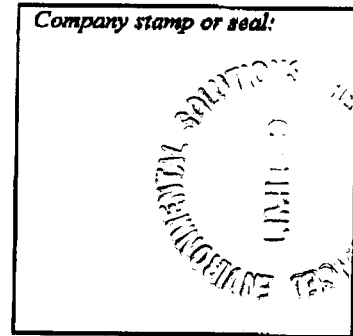
Signed by : P. A. Alley  
(on behalf of the organisation)

Date : 05.11.2004

Print signature name: P. A. ALLEY.

Position in organisation : MANAGING DIRECTOR.

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