



CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

IRELAND UNITED KINGDOM POLAND SAUDI ARABIA

US: LW15/247/01/Lett/TR/MG

EPA Headquarters
PO Box 3000
Johnstown Castle Estate
County Wexford
Y35 W821

3 October 2016

RE: Submission of a Waste Licence Application to the EPA in respect of a Proposed Waste Soils Recovery Facility and Eco-Park at Pretty Bush, Priestsnewtown townland, Kilquade, Kilccole, Co. Wicklow

Dear Sir/Madam,

Fehily Timoney and Company was retained by Wicklow County Council to prepare a waste licence application in respect of the above referenced development. Fehily Timoney and Company has compiled this application on behalf of Wicklow County Council. I declare that the content of the electronic files on the accompanying CD-ROM is a true copy of the original application form, attachments and EIS.

Please find enclosed with this letter the following:

1 original and 2 hard copies of:

- Waste Licence Application
- Attachments in support of the Application
- 3 Volumes of the EIS

2 copies of all files in electronic searchable PDF format on CD-Rom (OCR'd) in the following format:

- Waste Licence Application
 - Rp004_Waste Licence Application Form
- Attachments in support of the Application
 - Table of Contents Rpt005 WL Attachments
 - Attachment A-Attachment B Rpt005 WL Attachments
 - Attachment B3 Rpt005 WL Attachments
 - Attachment B6-Attachment D2 Rpt005 WL Attachments
 - Attachment E-Attachment L4 Rpt005 WL Attachments

Cont'd...



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Company Secretary: Bernadette Guinan Senior Consultants/Technical Directors: Declan O'Sullivan
Gerry O'Sullivan John Nolan Sarah Toal Stephen Byrne Tina Raleigh
Financial Controller: Colin O'Herlihy



Page 2

- 3 Volumes of the EIS
 - Volume 1 Non-Technical Summary Files
 - EIS_Rpt002_NON-TECH_Final
 - Volume 2 Main Report Files
 - Table of Contents EIS_Rpt003_Main Volume
 - Chapter 1-Chapter 2 EIS_Rpt001_Main_Final
 - Chapter 3 EIS_Rpt001_Main_Final
 - Chapter 4-Chapter 9 EIS_Rpt001_Main_Final
 - Chapter 10-Chapter 11 EIS_Rpt001_Main_Final
 - Chapter 12 EIS_Rpt001_Main_Final
 - Chapter 13-Chapter 11 EIS_Rpt001_Main_Final
 - Chapter 14-Chapter 17 EIS_Rpt001_Main_Final
 - Volume 3 Appendices Files
 - Appendices 1-3_EIS_Rpt003_Appendices_Final
 - Appendices 4-15_EIS_Rpt003_Appendices_Final
 - Appendices 16_EIS_Rpt003_Appendices_Final
 - Appendices 17-21_EIS_Rpt003_Appendices_Final

Please note that we were advised by the EPA that it was not necessary to submit 16 No. CD copies of the EIS with the application.

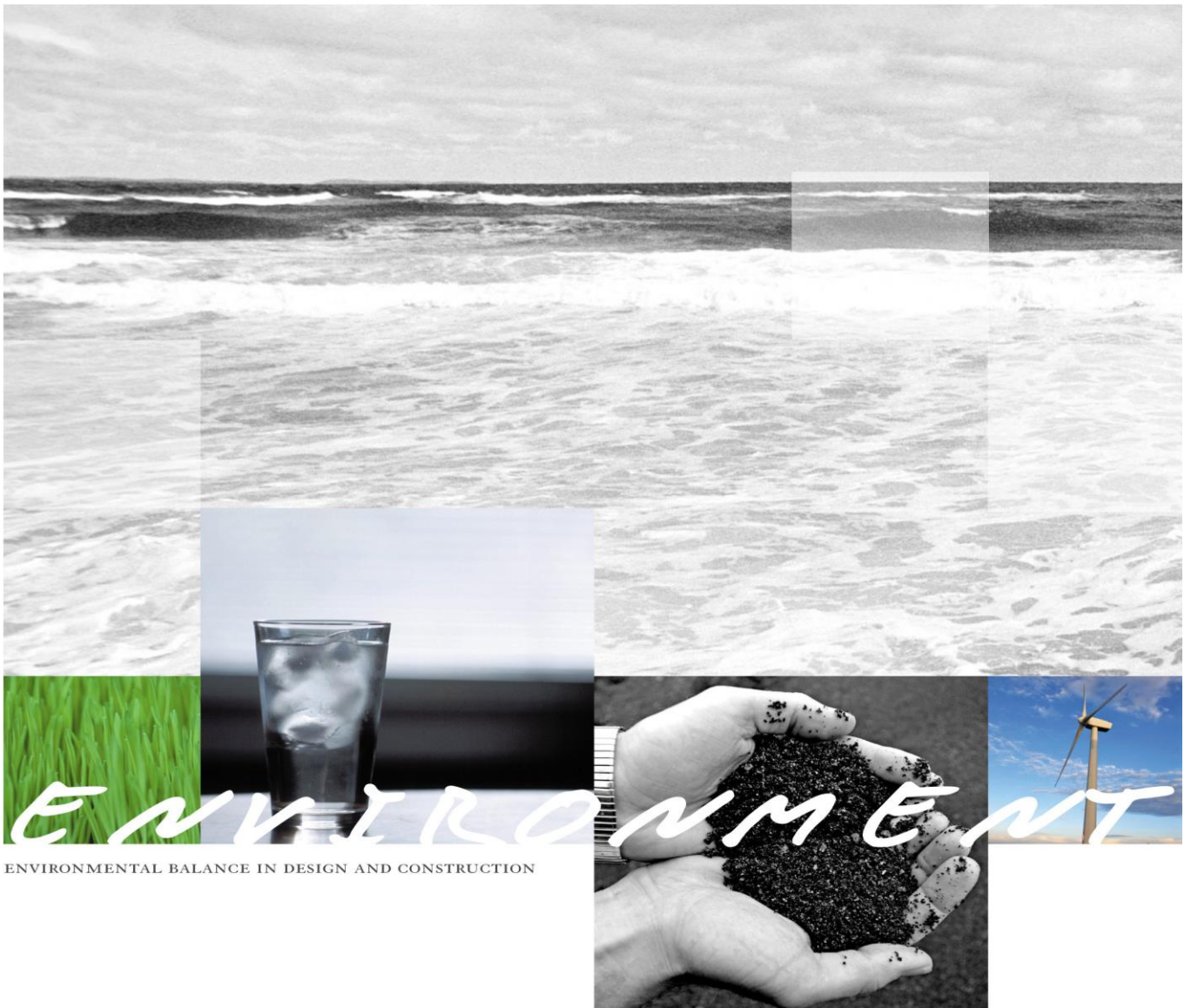
Please be advised that Wicklow County Council submitted payment for this application on 29 August 2016. Evidence of this payment is included in Attachment A of the application.

If you have any queries, please contact me.

Yours sincerely,

Tanya Ruddy
p.p. Tanya Ruddy, Senior Scientist
for and on behalf of **Fehily Timoney & Company**

Encls.

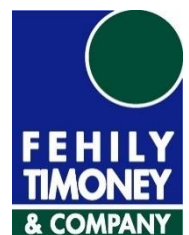


**WASTE LICENCE APPLICATION FORM
PRETTY BUSH WASTE SOILS RECOVERY FACILITY,
KILQUADE, KILCOOLE, CO. WICKLOW**

SEPTEMBER 2016



Wicklow County Council
Comhairle Contae Chill Mhantáin



WASTE LICENCE APPLICATION FORM PRETTY BUSH WASTE SOILS RECOVERY FACILITY, KILQUADE, KILCOOLE, CO. WICKLOW

User is Responsible for Checking the Revision Status of This Document

Rev. Nr.	Description of Changes	Prepared by:	Checked by:	Approved by:	Date:
0	Issue to Client	SG/CF	TR	BG	28.09.2016

Client: Wicklow County Council

Keywords: waste licence application, EPA, Pretty Bush soils recovery facility, Eco Park, recovery, inert, dredging spoil, environmental impact statement

Abstract: This document contains the EPA waste licence application form for the proposed development of a waste soils recovery facility at Wicklow County Council owned lands at Priestsnewtown, Kilquade, Kilcoole, Co. Wicklow. The application has been prepared by Fehily Timoney & Company on behalf of Wicklow County Council.



WARNING
**IF YOUR ACTIVITY FALLS UNDER THE INDUSTRIAL
EMISSIONS DIRECTIVE 2010/75/EU
DO NOT USE THIS APPLICATION FORM.
PLEASE REFER TO THE ENVIRONMENTAL PROTECTON
AGENCY (INDUSTRIAL EMISSIONS) (LICENSING)
REGULATIONS 2013, S.I. 137 OF 2013
AND
THE EUROPEAN UNION (INDUSTRIAL EMISSIONS)
REGULATIONS 2013, S.I. 138 OF 2013.
CONTACT THE ENVIRONMENTAL LICENSING PROGRAMME
FOR FURTHER INFORMATION.**

Waste Licence Application Form

ELECTRONIC COPIES OF THE APPLICATION **MUST** BE SUBMITTED IN
ACCORDANCE WITH THE "INSTRUCTIONS FOR LICENCE APPLICANTS"
DOCUMENT AT THE LINK BELOW.

**FAILURE TO DO SO MAY RESULT IN A DELAY IN PROCESSING YOUR
APPLICATION.**

<http://www.epa.ie/pubs/forms/lic/waste/epainstructionstolicenceapplicants.html>

EPA Ref. N^o:
(Office use only)

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

Environmental Protection Agency
P.O. Box 5000, Johnstown Castle Estate, County Wexford
Telephone: 053-9160600 Fax: 053-9160699



WASTE Application Form

Environmental Protection Agency
Application for a Waste Licence

WASTE MANAGEMENT ACT 1996 as amended

CONTENTS

	Page
INTRODUCTION	5
CHECKLIST	6
PROCEDURES	13
SECTION A NON-TECHNICAL SUMMARY	15
SECTION B GENERAL	18
SECTION C MANAGEMENT OF THE FACILITY	32
SECTION D INFRASTRUCTURE & OPERATION	33
SECTION E EMISSIONS	39
SECTION F CONTROL & MONITORING	41
SECTION G RESOURCES USE & ENERGY EFFICIENCY	45
SECTION H MATERIALS HANDLING	46
SECTION I EXISTING ENVIRONMENT & IMPACT OF THE FACILITY	50
SECTION J ACCIDENT PREVENTION & EMERGENCY RESPONSE	53
SECTION K REMEDIATION, DECOMMISSIONING, RESTORATION AND AFTERCARE	54
SECTION L STATUTORY REQUIREMENTS	55
SECTION M DECLARATION	57
 ANNEX 1: STANDARD FORMS	

INTRODUCTION

A valid application must contain the information prescribed in the Waste Management (Licensing) Regulations 2004 (SI No. 395 of 2004). **The applicant is strongly advised to read the *Application Guidance Notes for Waste Licensing*, available from the EPA.**

The applicant must conform to the format set out in the guidance notes for applications. Each page of the completed application form must be numbered, e.g. *page 5 of 45*, etc. Also duplicated pages from the application form should be uniquely numbered, e.g. page 5(i) of 45, etc. **The basic information should for the most part be supplied in the spaces given in application form** and any supporting documentation should be supplied as attachments, as specified. Consistent measurement units must be used throughout.

The applicant should note that the application form has been structured so that it requires information to be presented in an order of progressive detail.

When it is found necessary, additional information may be provided on supplementary attachments which should be clearly cross referenced with the relevant sections in the main document.

While all sections in the application form may not be relevant to the activity concerned, the applicant should look carefully through all aspects of the form and provide the required information, in the greatest possible detail.

All maps/drawings/plans must be no larger than A3 size and scaled appropriately such that they are clearly legible. In exceptional circumstances, where A3 is considered inadequate, a larger size may be requested by the Agency.

Information supplied in this application, including supporting documentation will be put on public display and open to inspection by any person. Should the applicant consider information to be confidential, this information should be submitted in a separate enclosure bearing the legend “In the event that this information is deemed not to be held as confidential, it must be returned to”. In the event that information is considered to be of a confidential nature, then the nature of this information and the reasons why it is considered confidential (with reference to the “Access to Information on the Environment” Regulations) should be stated in the Application Form, where relevant.

It should be noted that it will not be possible to process or determine the application until the required documents have been provided in sufficient detail and to a satisfactory standard.

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,

LOCATION	Section B WLA Form and Attachment A	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

LOCATION	Section B WLA Form and Attachment A	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <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,

NOT APPLICABLE

LOCATION		
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <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,

LOCATION	Section B WLA Form and Attachment A	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

WASTE Application Form

(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,

LOCATION	Attachment A and Attachment D	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

(f) specify the class or classes of activity concerned, in accordance with the Third and Fourth Schedules of the Act¹ 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,

LOCATION	Section B.7 of WLA Form and Attachment A	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <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,

LOCATION	Section H of WLA Form, Attachment A and Attachment H	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <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,

LOCATION	Attachment A and Attachment G	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

LOCATION	Attachment A, Attachment D and Attachment F	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

¹ Note that the Third and Fourth Schedules of the Act were amended by the European Communities (Waste Directive) Regulations, 2011.

WASTE Application Form

(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,

LOCATION	Attachment A	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

(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,

LOCATION	Section E of the WLA Form, Attachment A and Attachment E	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <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,

LOCATION	Attachment A and Attachment I	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <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,

LOCATION	Section F of the WLA Form and Attachment F	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

LOCATION	Attachments A, H4 and H5	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

LOCATION	Attachment A (o)	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

WASTE Application Form

- (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,

LOCATION	Attachment A and Attachment J	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

LOCATION	Attachment A and Attachment K	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <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

NOT APPLICABLE

LOCATION		
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

LOCATION		
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <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,

NOT APPLICABLE

LOCATION		
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <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,

NOT APPLICABLE

LOCATION	
CHECKED	Applicant <input checked="" type="checkbox"/> Official <input type="checkbox"/>

(t bis) describe in outline the main alternatives, if any, to the proposals contained in the application which were studied by the applicant,

LOCATION	Attachment A and Attachment D.2 and Attachment L.1
CHECKED	Applicant <input checked="" type="checkbox"/> Official <input type="checkbox"/>

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

LOCATION	Attachment A
CHECKED	Applicant <input checked="" type="checkbox"/> Official <input type="checkbox"/>

(v) describe how the waste hierarchy in section 21A of the Act is applied.

LOCATION	Attachment A and Attachment H5
CHECKED	Applicant <input checked="" type="checkbox"/> Official <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(s) in which the notice in accordance with article 6 has been published,

LOCATION	Attachment B.6
CHECKED	Applicant <input checked="" type="checkbox"/> Official <input type="checkbox"/>

WASTE Application Form

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

LOCATION	Attachment B.6	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

NOT APPLICABLE

LOCATION		
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

(d) a copy of such plans, (appropriately scaled and no larger than A3 size), 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,

LOCATION	Attachment B.1 and B.2	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

NOT APPLICABLE

LOCATION		
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

LOCATION	Attachment F	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

INCLUDED Y/N	No. Paid by EFT payment from Wicklow County Council– see receipt in Attachment A	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>



WASTE Application Form

Article 12(5)(a) & (b) An application shall comprise 1 signed original of the application and 2 copies in hardcopy format plus 2 copies of all files in electronic searchable PDF format on CD-ROM.

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

CD OF PDF FILES PROVIDED? Y/N	Yes	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

Article 13 Where a development requires an Environmental Impact Assessment to be carried out, 1 signed original and 2 copies in hardcopy format of the environmental impact statement plus 16 copies in electronic searchable PDF format on CD-ROM should accompany this application.

EIA REQUIRED? Y/N	Yes	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>
3 HARD COPIES OF EIS INCLUDED? Y/N	Yes	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>
16 CD versions of EIS, as PDF files, PROVIDED? Y/N	No – telecon with EPA (Mr. Patrick Doyle 29-08-16 stated 16 no. CDs not required). FT had enquired as to format of EIS files in terms file size.	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

PROCEDURES

It is recommended that pre-application consultations with the Agency are undertaken before a formal submission of the waste licence application.

The procedure for making and processing of applications for waste licences and for the processing of reviews of such licences, appear in the Waste Management (Licensing) Regulations 2004 (S.I. No. 395 of 2004) and are summarised below. The application fees that shall accompany an application are listed in the Second Schedule to the Regulations.

Prior to submitting an application, the applicant must publish in a local newspaper, and erect on site, a notice of intention to apply. An applicant, other than a local authority in whose functional area the development is located, must also notify the Local Planning Authority, in writing, of their intention to apply.

An application for a licence must be submitted on the appropriate form (available from the Agency) with the correct fee, and should contain relevant supporting documentation as attachments. The application should be based on responses to the form, supporting written text and the appropriate use of tables and drawings. Where point source emissions occur, a system of unique reference numbers should be used to denote each emission point. These should be simple, logical and traceable throughout the application.

The application form is divided into a number of sections of related information. The purpose of these divisions being to facilitate both the applicant and the Agency in the provision of the information and its assessment. Attachments should be clearly numbered, titled and paginated and must contain the required information as set out in the application form. Additional attachments may be included to supply any further information supporting the application. Any references made should be supported by a bibliography.

All questions should be answered. No waste management facility is exactly the same and hence each application will require different information. It is therefore possible that some of the sections of this application form may not be relevant to the activity concerned. **Where information is requested in the application form, which is not relevant to the application, the words “not applicable” should be clearly written on the form. The abbreviation “N/A” should not be used.**

Additional information may need to be submitted beyond that which is explicitly requested on this form. Any references made should be supported by a bibliography. The Agency may request further information if it considers that its provision is material to the assessment of the application. Advice should be sought from the Agency where there is doubt about the type of information required or the level of detail.

Information supplied in this application, including supporting documentation, will be put on public display and be open to inspection by any person. **Should the applicant consider information to be confidential, then the nature of this information and the reasons why it is considered confidential should be clearly stated in an attachment to the Application Form.**

This information should be submitted in a separate enclosure bearing the legend “In the event that this information is deemed not to be held as confidential, it must be returned to (representative of the applicant)”.

Applicants should be aware that a contravention of the conditions of a waste licence is an offence under Section 39 of the Waste Management Act 1996, as amended.

The provision of information in an application for a waste licence which is false or misleading is an offence under Section 45 of the Waste Management Act 1996, as amended.

Note: Drawings. The following guidelines are included to assist applicants:

- *All drawings submitted should be titled and dated.*
- *They should have a **unique reference number** and should be signed by a clearly identifiable person.*
- *They should indicate a scale and the **direction of north**.*
- *All drawings should, generally, be to a scale of between 1:20 to 1:500, depending upon the degree of detail needed to be shown and the size of the facility. Drawings delineating the boundary can be to a smaller scale of between 1:1000 to 1:10560, but must clearly and accurately present the required level of detail. Drawings showing the site location can be to a scale of between 1:50 000 to 1:126 720. All drawings should, however, be A3 or less and of an appropriate scale such that they are clearly legible. Provide legends on all drawings and maps as appropriate.*

The provision of information in an application for a waste licence, which is false or misleading, is an offence under Section 45 of the Acts.

SECTION A NON-TECHNICAL SUMMARY

A Non-Technical Summary is to be submitted. The summary should include information on those aspects outlined in the Guidance Note and must comply with the requirements of Article 12 (1) (u) of the Waste Management (Licensing) Regulations, S.I. 395 of 2004.

Where an EIS is submitted as part of the licence application, summarise the likely significant effects of the activity in the following format:

The EIS concluded no likely significant impacts. This table includes a description of likely potential impacts in the absence of mitigation measures along with the proposed mitigation measures.

The Non-Technical Summary of the EIS is included as Appendix 1 to these Attachments.

Environmental Factor	Likely effects identified	Brief description of effect	Mitigation measures proposed to control effect
Human Beings	Population, Residential Settlements and Community Facilities	Disturbance from the construction phase in terms of noise, traffic and air emissions.	<p>Traffic: Mitigation measures have been implemented through design as part of the identification of the dedicated haul route, while construction phase specific mitigation measures will include appropriate road marking and the implementation of a Traffic Management Plan (TMP) developed in consultation with the Gardaí. Post construction mitigation measures comprise the development of a new entrance and boundary, with modifications being made to the L1042 to facilitate safe access to and from the site.</p> <p>Noise: Placement and installation of screening for onsite plant will provide a significant reduction of 15Db (estimated) on the predicted levels and compliance with the BS 5228: Part 1 construction limits and the EPA licence noise limits. This screening will also reduce the potential for significant adverse impact.</p> <p>Air: Dust Management Plan (DMP) will be developed and implemented as part of the Construction Environmental Management Plan (CEMP) along with a number of other dust mitigation measures.</p>
	Land Use	The landuse within the site boundary will be directly and significantly impacted as a result of the proposed development through the clearance of existing scrub and vegetation and placement of dredge spoil at the site, thereby altering existing ground levels. The site will change from an area of unmanaged land to a semi managed land area, which will be classified as a waste recovery facility, followed by an Eco-Park following waste licence surrender.	No mitigation measures are proposed in relation to land use beyond the development boundary, given the lack of direct and indirect impacts on these lands.

WASTE Application Form

Environmental Factor	Likely effects identified	Brief description of effect	Mitigation measures proposed to control effect
	Local Employment and Economic Activity	During the construction phase the impact is anticipated to be directly positive as some employment will be created onsite for the duration of the construction phase. Post construction phase, a neutral impact is envisaged as minimal upkeep of the site will be required by Council staff, with extra job creation not envisaged.	Positive, none required
	Amenity and Tourism	The proposed Pretty Bush Eco-park will positively benefit the local communities through provision of a recreational outlet and open space for walking activities. And potential for alignment with eco-tourism initiatives of Wicklow County Council	Positive, none required
Flora and fauna	Terrestrial Mammals	Short term impacts only, mammals will move out during construction and likely return following completion of Eco-Park	
	Habitats	Vegetation clearance and infilling of the site with inert dredge material will result in habitat damage and loss. The most abundant habitat type within the development area which will be affected is scrub.	
	Badgers	Destruction of five setts and loss of foraging habitat	Carrying out of all conditions attached to Badger derogation licence for the site (e.g. construction of artificial sett, etc.)
	Bats	Disturbance during infilling phase from increased noise and lighting	Restrictions on night time working and use of appropriate lighting.
	Birds	Disturbance from vegetation clearance and associated loss of habitat	Removal of vegetation and scrub undertaken outside of breeding season. Restrictions on night time working.
	Aquatic species and habitats	Potential for indirect hydrological impacts	Area of proposed works kept to a minimum. Use of layout design methods to minimise clearance. Use of designated access points for site vehicles. Installation of silt ponds to manage sediment runoff.
Soil	Soil geology	Potential for the modification of the natural seepage of the soils, increased erosion and sediment release, and soil compaction	Quick placement and levelling of imported soil. Covering of temporary stockpiles overnight to prevent erosion and sedimentation.
Water	Surface water pollution	Potential for pollution of streams nearby the site from subsurface contamination.	Incoming waste identification and characterisation procedures. Refuelling and vehicle maintenance in designated areas. Installation of silt ponds to manage sediment runoff. Monitoring programme before, during and after material placement.
	Groundwater pollution	Potential for pollution of groundwater aquifer beneath site and groundwater wells nearby site	Incoming waste identification and characterisation procedures. Refuelling and vehicle maintenance in designated areas. Installation of silt ponds to manage

WASTE Application Form

Environmental Factor	Likely effects identified	Brief description of effect	Mitigation measures proposed to control effect
			sediment runoff. Monitoring programme before, during and after material placement.
Air	Dust	Emissions of dust during the construction phase	Mitigation measures in relation to dust referred to above (human beings)
Climate	Air emissions	Exhaust gases from construction vehicles and plant during the construction phase are expected to have a negligible impact on local air quality.	No mitigation measures required
Landscape	Visual	Temporary visual impacts limited to the construction phase	Careful integration of imported materials with existing materials. General site housekeeping designed to minimise visual impact during construction phase.
Material Assets	Infrastructure	No adverse impacts on property values, water or sewer utility infrastructure, road network, mineral deposits or future renewable resources nearby the site.	No mitigation measures required
Material Assets	Archaeology, architecture and cultural heritage	No direct impacts on recorded archaeological, architectural or cultural heritage resources nearby site. Imperceptible construction phase visual and noise impacts on these resources.	Archaeological supervision of site clearance works. Creation of written and photographic record of the townland boundary located along the eastern side and a small part of the northern side of the site.

The Non-Technical Summary should form **Attachment A.1**.

SECTION B GENERAL**B.1 Applicant's Details**

Name*: Wicklow County Council
Address: County Buildings
Whitegates
Wicklow Town
Co. Wicklow
Tel: 0404-20100
Fax: 0404-67792
e-mail: cosec@wicklowcoco.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: c/o Mr. Derek Milton
Address: Fehily Timoney & Company
J5 Plaza
North Park Business Park
North Road, Dublin 11
Tel: 00 353 1 6583500
Fax: 00 353 1 6583501
e-mail: derek.milton@ftco.ie

Address of registered or principal office of Body Corporate (if applicable)

Address: NOT APPLICABLE
Tel:
Fax:
e-mail:

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

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

Has an Article 11 request been submitted previously in relation to this site?

Yes	<input type="checkbox"/>
No	<input checked="" type="checkbox"/>

If yes, please provide the Article 11 request number:

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

Landowner	<input checked="" type="checkbox"/>
Lessee	<input 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:

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).*

An appropriately scaled drawing (≤A3) showing the above details should be included in Attachment B1.

Name: [Wicklow County Council](#)

Address: [County Buildings](#)

[Whitegates](#)

[Wicklow Town](#)

[Co. Wicklow](#)

Tel: [0404-20100](#)

Fax: [0404-67792](#)

e-mail: cosec@wicklowcoco.ie

*Current at the time the application is submitted

Primary Contact details for enforcement purposes where licence is granted. PLEASE NOTE THIS CONTACT CANNOT BE A CONSULTANT. ALSO IT MUST NOT BE A PERSON WHO IS ALREADY A REGISTERED EDEN CONTACT FOR ANY OTHER LICENCE ISSUED BY THE AGENCY.

***mandatory fields**

*Name:	Mr. Marc Devereux
Position in organisation:	Senior Engineer
Tel:	+353 404 20100
*e-mail:	mdevereu@wicklowcoco.ie

B.2 Location of Activity

Name:	Pretty Bush Waste Soils Recovery Facility
Address*:	Kilquade
	Townland of Priestsnewtown (& Knockroe)
	Kilcoole,
	Co. Wicklow
Tel:	N/A
Fax:	N/A
e-mail:	N/A

* Include any townland

National Grid Reference (8 digit 4E,4N)	3290 E 2093 N
--	------------------

Location maps ($\leq A3$), appropriately scaled, with legible grid references should be enclosed in **Attachment B.2**. The site boundary must be outlined on the map in colour.

B.3 Planning Authority and/or Public Authority

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

Name:	Wicklow County Council
Address:	County Buildings
	Whitegates
	Wicklow Town
	Co. Wicklow
Tel:	0404-20100
Fax:	0404-67792

Considering the entire site to which the activity relates, has planning permission ever been required for the site? (Tick No or Yes in the table)

No		See Section B.6(a) below NOTE: For Agency initiated reviews , you can disregard the instructions in B.6(a) and progress to Section B.7.
Yes	X	See <u>all</u> of Sections B.6(b) to (f) below. Please note that all structures comprising or for the purposes of the activity must be accounted for in the tables in sections below B.6(c) to B.6(f) below. NOTE: For Agency initiated reviews , you only need to <u>complete the tables</u> in Sections B.6(c), B.6(d) and B.6(e) below. You DO NOT need to submit an EIS or the letters on confirmation referred to below.

If this is a licence review application, was planning permission required for the changes proposed as part of this review application? (Tick No or Yes in the table)

Not applicable

No		Provide confirmation in writing from the planning authority or An Bord Pleanála that this is the case.
Yes		Planning Ref No:

B.6 (a) Where planning has never been required

Where the activity which is the subject of this licence/review application has never required a grant of planning permission previously, **Attachment N^o B.6** must include a confirmation in writing from the planning authority or An Bord Pleanála, as the case may be, that the activity does not involve development or that the activity constitutes development but is exempted development. The letter of confirmation from the planning authority and/or An Bord Pleanála, as the case may be, must also confirm whether EIA has been carried out by the planning authority or An Bord Pleanála for any part of the site of the activity.

B.6 (b) Environmental Impact Statements

In the following table, indicate the option which applies to your application and provide the information requested accordingly.

Option	Applicable? (Yes/No)
<p><u>For new licence applications OR review applications where the last licence (excluding reviews initiated by the EPA) was determined before 30th September 2012</u></p> <ul style="list-style-type: none"> Where planning permission has been/is required for the site of the activity, you must submit the most recent EIS associated with a planning application or planning permission for the site of the activity. Where planning is granted, the planning decision and planners report associated with the EIS should <u>also</u> be submitted. 	Yes
<p><u>For review applications where the last licence (excluding reviews initiated by the EPA) was determined after 30th September 2012</u></p> <ul style="list-style-type: none"> If this is an application for a licence review, and the last licence review (not including reviews initiated by the EPA) was determined after 30th September 2012, you are only required to submit the most recent EIS which has arisen through the planning process since the last licence review. The planning decision and planners report associated with the EIS should also be submitted. 	No
<p><u>Where an EIS has never been required at planning stage</u> Where an EIS has never been required for any planning permission then you must provide confirmation in writing from the planning authority or An Bord Pleanála that an environmental impact assessment was not required by or under the Planning and Development Act 2000, as amended for each of the planning permissions associated with the site of the activity. This information should be included in Attachment N^o B.6.</p>	No

B.6 (c) Planning under Consideration

Where there is currently a planning application under consideration with a Planning Authority or An Bord Pleanala for any aspect of the site to which this licence application relates:

1. Provide confirmation in writing from a planning authority or An Bord Pleanála, as the case may be, that an application for permission comprising or for the purposes of the activity to which the application for a licence relates is currently under consideration.
2. Complete the Planning under Consideration Table below, indicating whether an Environmental Impact Statement (EIS) is required by the Planning Authority/An Bord Pleanala as part of that application.
3. Where an EIS is not required by the Planning Authority/An Bord Pleanala for a planning application, you must provide confirmation in writing from the planning authority or An Bord Pleanála that an environmental impact assessment is not required by or under the Planning and Development Act 2000 in **each** case. This information should be included in **Attachment N^o B.6**.

Planning under Consideration Table:

Planning or Appeal Reference Number	Planning Authority (PA)/An Bord Pleanala (ABP)	Date of application	Brief description	Letter of confirmation from PA/ABP that application is under consideration?	EIS required with Planning Application? (Yes/No)	If “no”, letter of confirmation from PA/ABP that EIA is not required?
27.JA00 37	ABP	29 th August 2016	Development of waste soils recovery facility for acceptance of up to 200,000 tonnes per annum of dredge spoil material; subsequent development as an Eco-park; improvements to L1042 local road and site entrance; reconfiguration of existing Council chippings yard	Attachment B.3	Yes	Not Applicable

Note: Please be advised that in accordance with Section 42(1D)(d) of the Waste Management Act 1996, as amended, a Proposed Determination **cannot** issue on a licence application while a planning application (for a development comprising or for the purposes of an activity to which the licence application relates and for which EIA is required) is under consideration with a planning authority or An Bord Pleanala.

B.6 (d) Planning Granted

Where planning permissions have been granted for the site of the activity:

1. List all of the permissions relating to the site in the Planning Granted Table below and indicate whether an EIS was required by the Planning Authority/An Bord Pleanala as part of that permission. Submit the planners report and final decision for each permission granted.
2. Where an EIS was not required by the Planning Authority/An Bord Pleanala for a planning permission, you must provide confirmation in writing from the planning authority or An Bord Pleanála that an environmental impact assessment was not required by or under the Planning and Development Act 2000 for **each** planning permission granted. This information should be included in **Attachment N^o B.6**.

Planning Granted Table:

Planning or Appeal Reference Number	Planning Authority/An Bord Pleanala	Date of Planning Decision (Final)	Brief description	EIS required with Planning Application? (Yes/No)	If “no”, Letter of confirmation from planning authority/An Bord Pleanala that EIA was not required?
015286	Wicklow County Council	December 2001	Wicklow County Council under took a Part 8 process for land development and re-instatement and construction works at the site, which was approved in December 2001 but which did not proceed.	No	Not applicable
041109	Wicklow County Council	August 2004	The Electricity Supply Board (ESB) applied for the diversion of a section of the existing Fassaroe – Greystones/Kilcoole 38 Kv line in the townland of Priestnewtown	No	Not applicable

Note: Please be advised that where planning permission has been granted or a planning application is under consideration, and in accordance with Section 42(1C) of the Waste Management Act 1996, as amended, the Agency shall ***refuse to consider*** the licence application if the applicant does not comply with the requirements of Section 42(1B) of the Waste Management Act 1996, as amended.

B.6 (e) Exempted Developments and structures/modifications not regarded as “development”.

Where any structure or modification on site has been determined by the planning authority or An Bord Pleanála to be “exempted development” or is considered not to be development, provide confirmation in writing from the relevant authority. List all of the structures/modifications considered to be “exempted development” or to not involve development in the table below.

NOT APPLICABLE

Exempted Development/No Development:

Planning Authority/An Bord Pleanála	Date of letter from PA/ABP confirming their determination	Brief description of structure/modification	Tick if exempted development	Tick if considered not to be development

B.6 (f) Other Consents Granted

List all consents (**other than planning permissions**) issued by any relevant competent authority (other than the planning authority/An Bord Pleanála) for the development relating to this application which required EIA to be carried out as part of the consent process e.g. a foreshore licence. These EISs are **not** required to be submitted with the licence application at this point.

Consent Reference Number	Competent Authority	Date of Grant of Consent	Brief description	EIS required with Consent Application?
DER/BADGER 2015-70 (Amended)	Department of Arts, Heritage and the Gaeltacht/NPWS	01/07/16	Badger derogation licence for the re-location of existing badger setts at the development location. Conditions attached to licence which will be required to be carried out in full.	No

Licences and permits

For existing activities, **Attachment N° B.3** should also contain a table of references to all licences and permits past and presently in force at the time of submission of this application.

NOT APPLICABLE

Licence/Permit reference number	Brief Description	Date granted	Currently in force? (Yes/No)

Appropriate Assessment

Where applicable, provide a copy of any screening for Appropriate Assessment report and Natura Impact Statement (NIS) that was prepared for consideration by any planning/public authority as defined in Regulation 2(1) of the European Communities (Birds and Natural Habitats) Regulations 2011 (S.I. No. 477 of 2011) in relation to the activity. Where a determination that an Appropriate Assessment is required has been made by any planning/public authority in relation to the activity, a copy of that determination and any screening report and Natura Impact Statement (NIS), and any supplemental information furnished in relation to any such report or statement, which has been provided to the planning/public authority for the purposes of the Appropriate Assessment shall be included in **Attachment N° B.3**.

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.

Not applicable

Name:

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

Name:	HSE Dublin South East/Wicklow
Address:	HSE Health Centre
	Kilarney Road
	Bray, Co. Wicklow
Tel:	01 2762918
Fax:	

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 an appropriately scaled drawing ($\leq A3$) 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. Type of Waste Activity, Tonnages & Fees

B.6.1 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 2010, as amended by the European Communities (Waste Directive) Regulations, 2011, to which the application relates (check the relevant box(es) and mark the principal activity with a ‘P’).

Attachment B.7 should identify the principal 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 ACT 1996, AS AMENDED.

Waste Management Act 1996, as amended.					
Third Schedule Waste Disposal Operations		Y/N	Fourth Schedule Waste Recovery Operations		Y/N
D 1	Deposit into or on to land (e.g. including landfill, etc.).	N	R 1	Use principally as a fuel or other means to generate energy: This includes incineration facilities dedicated to the processing of municipal solid waste only where their energy efficiency is equal to or above: <ul style="list-style-type: none"> - 0.60 for installations in operation and permitted in accordance with applicable Community acts before 1 January 2009, - 0.65 for installations permitted after 31 December 2008, using the following formula, applied in accordance with the reference document on Best Available Techniques for Waste Incineration: Energy efficiency = $(E_p - (E_f + E_i)) / (0.97 \times (E_w + E_f))$ Where: 'E _p ' means annual energy produced as heat or electricity and is calculated with energy in the form of electricity being multiplied by 2.6 and heat produced for commercial use multiplied by 1.1(GJ/year), 'E _f ' means annual energy input to the system from fuels contributing to the production of steam (GJ/year), 'E _w ' means annual energy contained in the treated waste calculated using the net calorific value of the waste (GJ/year), 'E _i ' means annual energy imported excluding E _w and E _f (GJ/year), '0.97' is a factor accounting for energy losses due to bottom ash and radiation.	N
D 2	Land treatment (e.g. biodegradation of liquid or sludgy discards in soils, etc.).	N	R 2	Solvent reclamation/regeneration.	N
D 3	Deep injection (e.g. injection of pumpable discards into wells, salt domes or naturally occurring repositories, etc.).	N	R 3	Recycling /reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes), which includes gasification and pyrolysis using the components as chemicals.	Y
D 4	Surface impoundment (e.g. placement of liquid or sludgy discards into pits, ponds or lagoons, etc.).	N	R 4	Recycling/reclamation of metals and metal compounds.	N
D 5	Specially engineered landfill (e.g. placement into lined discrete cells which are capped and isolated from one another and the environment, etc.).	N	R 5	Recycling/reclamation of other inorganic materials, which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials.	P
D 6	Release into a water body except seas/oceans.	N	R 6	Regeneration of acids or bases.	N
D 7	Release to seas/oceans including sea-bed insertion.	N	R 7	Recovery of components used for pollution abatement.	N
D 8	Biological treatment not specified elsewhere in this Schedule which results in final compounds or mixtures which are discarded	N	R 8	Recovery of components from catalysts.	N

WASTE Application Form

	by means of any of the operations numbered D 1 to D 12.				
D 9	Physico-chemical treatment not specified elsewhere in this Schedule which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12 (e.g. evaporation, drying, calcinations, etc.).	N	R 9	Oil re-refining or other reuses of oil.	N
D 10	Incineration on land.	N	R 10	Land treatment resulting in benefit to agriculture or ecological improvement.	N
D 11	Incineration at sea (this operation is prohibited by EU legislation and international conventions).	N	R 11	Use of waste obtained from any of the operations numbered R 1 to R 10.	N
D 12	Permanent storage (e.g. emplacement of containers in a mine, etc.).	N	R 12	Exchange of waste for submission to any of the operations numbered R 1 to R 11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as, amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, separating, blending or mixing prior to submission to any of the operations numbered R1 to R11).	N
D 13	Blending or mixing prior to submission to any of the operations numbered D 1 to D 12 (if there is no other D code appropriate, this can include preliminary operations prior to disposal including pre-processing such as, amongst others, sorting, crushing, compacting, pelletising, drying, shredding, conditioning or separating prior to submission to any of the operations numbered D1 to D12).	N	R 13	Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage (being preliminary storage according to the definition of 'collection' in section 5(1)), pending collection, on the site where the waste is produced).	Y
D 14	Repackaging prior to submission to any of the operations numbered D 1 to D 13.	N			
D 15	Storage pending any of the operations numbered D 1 to D 14 (excluding temporary storage (being preliminary storage according to the definition of 'collection' in section 5(1)), pending collection, on the site where the waste is produced).	N			

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.

Maximum Annual Tonnage (tpa)	208,000 tonnes
Year	2018

Please see more detail on this in Table H.1.(b)

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 €)
Disposal of Waste (appropriate disposal activity 1.1 – 3.3)	
Recovery of Waste (4)	10,000

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"/>

TABLE B.7.5 (FOR A LANDFILL APPLICATION)

Not applicable

In accordance with the requirements of Article 9(b) of the Landfill Directive, state the total quantity of waste for which authorisation is sought to be deposited in the landfill – complete the following table:

Total quantity of waste to be deposited at the landfill facility	Tonnes*	Void in cubic metres (m ³)
(a) Waste deposited to date		
(b) Total waste to be deposited over lifetime of development (<u>including deposited to date</u>)		

* Explain any conversion/density factors used in calculating tonnage from void, or vice versa.

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, 2006 (S.I. No. 74 of 2006), apply.

Regulations Apply	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.

B.9 Waste Storage and Closure Costs

State the maximum amount of waste that will be held or stored at the installation at any one time. This should include waste in:

- reception, inspection and quarantine areas,
- storage pending treatment,
- storage after treatment, and
- vessels, chambers or tanks during treatment or processing.

State the cost of disposing of waste (including treated waste) held, in storage or in process at the installation. Do not provide the recovery/recycling cost and do not assume that the waste will have a positive monetary value (it may have degraded in the period before removal from the closed facility).

Complete the following table (consistently using either tonnes or cubic metres as your unit of measurement for all entries): *In the event of a sudden temporary closure of the facility, there will not be a requirement to move the material off site, due to its inert nature. However, should the facility have to close permanently and the EPA require the material to be moved off site, please see table below.*

Location of waste	Tonnes	Cubic metres	Unit cost (per tonne or m ³) for - removal AND - disposal in case of sudden closure	Disposal route and/or technique	Notes, rationale, clarifications
Staging Area	200,000	100,000	€20	Inert landfill by road	
Total	200,000	100,00	€20	As above	

* add rows to the table as necessary

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
Marc Devereux	Senior Engineer	Appointment of a suitably qualified contractor	Senior Engineer, Wicklow County Council
To be determined	Environmental Manager	Waste Licence Compliance Management CEMP compliance management	CV to be forwarded to Agency for approval prior to appointment

C.2 Environmental Management System

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

See [Attachment C.2](#)

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.

See [Attachment C.3](#)

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 Attachment D.1.a
D.1.b	Designs for site roads	Y	See Attachment D.1.b
D.1.c	Design of hard-standing areas	Y	See Attachment D.1.c
D.1.d	Plant	Y	See Attachment D.1.d
D.1.e	Wheel-wash	N	See Attachment D.1.e
D.1.f	Laboratory facilities	N	
D.1.g	Design and location of fuel storage areas	N	See Attachment D.1.g
D.1.h	Waste quarantine areas	Y	See Attachment D.1.h
D.1.i	Waste inspection areas	Y	See Attachment D.1.i
D.1.j	Traffic control	Y	See Attachment D.1.j
D.1.k	Sewerage and surface water drainage infrastructure	Y	See Attachment D.1.k
D.1.l	All other services	Y	See Attachment D.1.l
D.1.m	Plant sheds, garages and equipment compound	Y	See Attachment D.1.m
D.1.n	Site accommodation	N	See Attachment D.1.n
D.1.o	A fire control system, including water supply	N	See Attachment D.1.o
D.1.p	Civic amenity facilities	N	
D.1.q	Any other waste recovery infrastructure	N	

Table D.1. Infrastructure		y/n	Comments
D.1.r	Composting infrastructure	N	
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	

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*.

The requirements of article 12(1)(t bis) of the Licensing Regulations should be addressed in **Attachment D.2** by outlining the main alternatives to the proposals contained in the application which were studied by the applicant.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
----------------------------	---	-----------------------------	---

[See Attachment D.2](#)

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.

D.3 Liner System *Not applicable*

Complete the following table regarding the liner system to be used for the landfill/landfill extension and detail the information requested as **Attachment D.3. Items D3c to D3g should only be completed for immediate projects (i.e., years 1 & 2)**. A schedule of liner construction activities for the medium to long term need only be listed in item D3a below, since Condition 3 of any licences granted will provide reporting requirements for any future projects.

TABLE D.3 LINER SYSTEM NOT APPLICABLE

		y/n	Comments
D.3.a	Provide information to fulfil Annex 1 of the Landfill Directive		
D.3.b	What type of liner system is specified?		
D.3.c	Has a Quality Control Plan been specified?		
D.3.d	Has a Quality Assurance Plan been specified?		
D.3.e	Has independent, third-party supervision, testing and controls been specified?		
D.3.f	Have basal gradients for all cells and access ramps to the cells been designed?		
D.3.g	Has a leak detection survey been specified?		

D.4 Leachate Management NOT APPLICABLE

Complete the following table detailing leachate management arrangements. Further information should be included in **Attachment D.4**.

TABLE D.4.1 LEACHATE MANAGEMENT ARRANGEMENTS

		y/n	Comments
D.4.a	Is there a Leachate Management Plan?		
D.4.b	Have annual quantities of leachate been calculated?		
D.4.c	Has the total quantity of leachate been calculated?		
D.4.d	Has the size of the cells been specified taking account of the water balance calculations?		
D.4.e	Has a leachate collection system been specified?		
D.4.f	Has a leachate storage system been specified?		
D.4.g	Has a system for monitoring the level of leachate in the waste been designed?		
D.4.h	Is leachate recirculation proposed/practised?		
D.4.i	Has leachate treatment on-site been specified?		
D.4.j	Has leachate removal been specified?		

D 5 Landfill Gas Management NOT APPLICABLE

All landfill sites should have suitable arrangements for the management of landfill gas. **Attachment D.5** should contain the appropriate documentation. Information provided should follow the sequence, and use the headings, established in Table D.5. **Items D5g to D5m should only be completed for immediate or current gas collection projects (i.e., years 1 & 2)**. A schedule of gas management aspects for the medium to long term need only be listed in item D5f below, since Condition 3 of any proposed decision/licence will provide reporting requirements for any future projects.

Table D.5. Landfill Gas Management **NOT APPLICABLE**

		y/n	Comments
D.5a	<p>Is there a Landfill Gas Management Plan?</p> <p>Provide estimates of the volumes of landfill gas which will be produced by the waste disposed of in the site for the next 20 years, and compare to the EPER list for methane:</p>		
D.5b	Is there a passive venting system?		
D.5c	Does the passive system cover all of the filled area?		
D.5d	Have gas alarm systems been installed in the site buildings?		
D.5e	Have measures been installed to prevent landfill gas migration (e.g. barriers)?		
D.5f	Has a time-scale been proposed for the installation of landfill gas infrastructure?		
D.5g	Is gas flaring undertaken at the site?		
D.5h	Is there an active (i.e., pumped) landfill gas extraction system?		
D.5i	Does the active system cover all of the filled area?		
D.5j	Is landfill gas used to generate energy at the site?		
D.5k	Have emissions from the flarestack and utilisation plant been assessed for source, composition, quantity and level and rate?		
D.5l	Has a maintenance programme for the control system been specified?		
D.5m	Has a condensate removal system been designed?		

D.6 Capping System NOT APPLICABLE

Complete the following table detailing the design of the capping system. **Attachment D.6** should contain the appropriate documentation. **Items D6e to D6k should be completed for immediate projects only (i.e., years 1 & 2).** Condition 10 of any proposed decision/licence will provide reporting requirements for capping requirements beyond this timeframe.

Table D.6 Capping System NOT APPLICABLE

		y/n	Comments
D.6a	Has the daily cover been specified?		
D.6b	Has the intermediate cover been specified?		
D.6c	Has the temporary capping been specified?		
D.6d	Has the Capping System been designed and does it meet the requirements of the Landfill Directive Annex 1 (3.3)?		
D.6e	Does the Capping System include a flexible membrane liner?		
D.6f	Have all capping materials been specified?		
D.6g	Has a Method Statement for construction been produced?		
D.6h	Has a Quality Control Plan been produced?		
D.6i	Has a Quality Assurance Plan been produced?		
D.6j	Has a programme for monitoring landfill stability been developed?		
D.6k	Has a programme for monitoring landfill settlement been developed?		

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.

Not Applicable, but refer Attachment E.1

E.2 Emissions to Surface Waters

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

Not Applicable, but refer Attachment E.2

E.3 Emissions to Sewer

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

Not Applicable

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 and the European Communities Environmental Objectives (Groundwater) Regulations 2010 (S.I. No. 9 of 2010).

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

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

Not Applicable but refer 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**

The Agency’s *Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)* (2012) should be consulted (available on www.epa.ie) where a noise impact assessment is required. A planned programme of improvement towards meeting upgraded standards is required and should have due regard to the noise control and mitigation measures outlined in section 8, and Appendix IX of the *Guidance Note*. This programme should highlight specific goals and a time scale, together with options for modification, upgrading or replacement, as required, to bring the emissions within the limits as set out in the *Guidance Note*.

Not Applicable but See Attachment E.5

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 type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
	Attachment included	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" 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 type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
	Attachment included	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
Litter Control	Control method specified	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
	Attachment included	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" 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 type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
	Attachment included	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" 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"/>

See Attachment E.6

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 appropriately scaled schematics (≤A3) as appropriate.

For each Emission Point identified complete Table F.1 of the Annex and include detailed descriptions and appropriately scaled schematics (≤A3) of all abatement systems.

Attachment F.1 should contain any supporting information.

Not Applicable

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.

See Attachments F.2 – F.3 & F.5 – F.6

F.2 Air - to include Dust, Odour

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

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 <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Monitoring points identified, (plus 12-figure grid references)	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"/>

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

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 checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Monitoring points identified, (plus 12-figure grid references)	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"/>

F.6 Noise

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

F.7 Meteorological Data

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

An application for landfill requires the additional Attachments F.7 to F.8, to be completed: [Not Applicable](#)

F.8 Leachate

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

F.9 Landfill Gas NOT APPLICABLE

Complete each of the following tables to show whether information has been included on aspects of landfill gas monitoring. **Attachment F.9** should also contain information to show whether the data given in Tables F.9. (a) and F.9(b) below represents actual or anticipated data. Complete Table F.9 as follows:

Table F.9 (a) Landfill Gas Monitoring for existing landfill gas flares / utilisation plants

Parameter	Concentration (mg/Nm ³)	Proposed Frequency of Analysis	Information Included Y/N	Method of Analysis	Information Included Y/N
Inlet					
Methane (CH ₄) % v/v					
Carbon dioxide (CO ₂) % v/v					
Oxygen (O ₂) % v/v					
Outlet					
Volumetric Flow Rate					
SO ₂					
Nox					
CO					
Particulates					
TA Luft Class I, II, III organics					
Hydrochloric acid					
Hydrogen Fluoride					

Table F.9(b) Landfill Gas Monitoring

Parameter	Proposed Frequency of Analysis		Information Included Y/N	Method of Analysis	Information Included Y/N
	Gas boreholes / vents/ wells/ perimeter locations	Facility Office			
Methane (CH₄) % v/v					
Carbon Dioxide (CO₂) % v/v					
Oxygen (O₂) % v/v					
Atmospheric Pressure					
Temperature					



WASTE Application Form

Table F.9 (c) Landfill Gas Infrastructure

Equipment	Monitoring Frequency	Information Included Y/N	Monitoring Action	Information Included Y/N
Gas Collection System				
Gas Control System				

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

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*.

Attachment included	yes <input checked="" type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/>
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See Attachment G.1

G.2 Energy Efficiency

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

Attachment included	yes <input type="checkbox"/> no <input type="checkbox"/> not applicable <input checked="" type="checkbox"/>
----------------------------	---

Not Applicable

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 1996, as amended. 3rd Schedule (Disposal) Operations			Waste Management Act 1996, as amended. 4th Schedule (Recovery) Operations		
Class of Activity Applied For		Quantity (tpa)	Class of Activity Applied For		Quantity (tpa)
Class D 1		Not Applicable	Class R 1		Not Applicable
Class D 2		Not Applicable	Class R 2		Not Applicable
Class D 3		Not Applicable	Class R 3		8,000 -12,000
Class D 4		Not Applicable	Class R 4		Not Applicable
Class D 5		Not Applicable	Class R 5		200,000
Class D 6		Not Applicable	Class R 6		Not Applicable
Class D 7		Not Applicable	Class R 7		Not Applicable
Class D 8		Not Applicable	Class R 8		Not Applicable
Class D 9		Not Applicable	Class R 9		Not Applicable
Class D 10		Not Applicable	Class R 10		Not Applicable
Class D 11		Not Applicable	Class R 11		Not Applicable
Class D 12		Not Applicable	Class R 12		Not Applicable
Class D 13		Not Applicable	Class R 13		As R5 and R3
Class D 14		Not Applicable			
Class D 15		Not Applicable			

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 licence 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)
2017*	2,000 - 4,000 vegetation	0	2,000 - 4,000
2018**	200,000 dredge spoil	0	200,000
	6,000 – 8,000 topsoil		6,000 – 8,000

- *Site clearance phase expected to last 3-4 months and will generate vegetation waste (2,000 - 4,000 tonnes).
- ** dredge spoil (200,000 tonnes) filling phase expected to last 8-15 months, followed by placement of topsoil (8,000 tonnes)
- The timelines are approximate depending on commencement date and seasonal ecological constraints.

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			
Commercial			
Sewage Sludge			
Construction and Demolition (dredge spoil)	0	200,000	200,000
Industrial Non-Hazardous Sludges			
Industrial Non-Hazardous Solids			
Hazardous *(Specify detail in Table H 1.2)			
Organic wastes generated from on site vegetation clearance	0	2,000 - 4,000	2,000 - 4,000
Soil and Stones imported for restoration	0	6,000 - 8,000	6,000 - 8,000

TABLE H.1.2 HAZARDOUS WASTE TYPES AND QUANTITIES *Not Applicable*

HAZARDOUS WASTE	DETAILED DESCRIPTION	Tonnes Per Annum (Existing)	(Tonnes Per Annum Proposed)
Waste Oil			
Oil filters			
Asbestos			
Paint and Ink			
Batteries			
Fluorescent Light Bulbs			
Contaminated Soils			
OTHER HAZARDOUS WASTE (APPLICANT TO SPECIFY)			

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 accepted.

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 and, for landfills, Council Decision 2003/33/EC. A copy of these procedures and other associated documentation should be included as **Attachment H.2**.

[See 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*.

[See Attachment H.3](#)

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

H.3a Waste Handling at the Landfill Facility [Not Applicable](#)

State the manner in which it will be verified or assured that waste will be subject to treatment prior to landfilling in accordance with the requirements of article 6 of the Landfill Directive.

Provide information on the quantity of biodegradable municipal waste to be accepted and how the targets of article 5 of the Landfill Directive (1999/31/EC), as they have been adopted in Ireland, are to be achieved. In particular, describe how operation of the landfill will contribute to:

- (a) a reduction by 16/07/2010 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 16/07/2013 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 16/07/2016 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.

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.4(i) and H.4(ii) of the application form. Applicants should also provide conversion factors used to relate volume (m³) and tonnage (t) for their waste stream.

[See Attachment H.4](#)

H.5 Waste Recycling and Recovery

Applicants should describe in **Attachment H.5** how waste activities will contribute to the requirements of regulation 31(1) and (2) of the European Communities (Waste Directive) Regulations 2011.

Applicants should also describe how they intend complying with the requirements of regulation 29(2A) of the Regulations regarding waste recovery.

[See Attachment H.5](#)

SECTION I EXISTING ENVIRONMENT & IMPACT OF THE FACILITY

Detailed information is required to enable the Agency to assess the existing environment. This section requires the provision of information on the ambient environmental conditions at the site prior to the commencement of waste management activities or prior to the receipt of a review application.

Where development is proposed to be carried out, being development which is of a class for the time being specified under Article 24 (First Schedule) of the Environmental Impact Assessment Regulations, the information on the state of the existing environment should be addressed in the EIS. **In such cases, it will suffice for the purposes of this section to provide adequate cross-references to the relevant sections in the EIS.**

I.1. Assessment of atmospheric emissions

Describe the existing environment in terms of air quality with particular reference to ambient air quality standards.

Provide a statement whether or not emissions of main polluting substances (as defined in the Schedule of S.I. 394 of 2004) to the atmosphere are likely to impair the environment.

Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

Attachment I.1 should also contain full details of any dispersion modelling of atmospheric emissions from the activity, where required.

[See Attachment I.1](#)

I.2. Assessment of Impact on Receiving Surface Water

Describe the existing environment in terms of water quality with particular reference to environmental quality standards or other legislative standards. Table I.2(i) should be completed

Provide a statement whether or not emissions of main polluting substances (as defined in the Schedule of S.I. 394 of 2004) to water are likely to impair the environment.

Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

The requirements of and environmental quality standards contained in the European Communities Environmental Objectives (Surface Waters) Regulations 2009 (S.I. No. 272 of 2009) should be considered. Information should be provided on the manner in which these Regulations were taken into account in the assessment of the impact of emissions to surface waters.

Full details of the assessment and any other relevant information on the receiving environment should be submitted as **Attachment I.2**.

[See Attachment I.2](#)

I.3. Assessment of Impact of Sewage Discharge.

Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

Full details of the assessment and any other supporting information should form **Attachment I.3**.

[Not Applicable, See Attachment I.3](#)

I.4 Assessment of impact of ground/groundwater emissions

The scope and detail of this assessment will depend to a large extent on the extent and type of ground emissions at any site, which in turn are related to the risk. Details should be included in **Attachment I.4**. Comprehensive guidelines are contained in the *Application Guidance Note* and include particular requirements for landfill and brownfield facilities.

Describe the existing groundwater quality. Tables I.4(i) should be completed.

The requirements of the European Communities Environmental Objectives (Groundwater) Regulations 2010 (S.I. No. 9 of 2010) should be considered. Information should be provided on the manner in which these Regulations were taken into account in the assessment of the impact of the activity on groundwater.

[See Attachment I.4](#)

I.5 Ground and/or groundwater contamination

Summary details of known ground and/or groundwater contamination, historical or current, on or under the site must be given.

Full details including all relevant investigative studies, assessments, or reports, monitoring results, location and design of monitoring installations, appropriately scaled plans/drawings ($\leq A3$), documentation, including containment engineering, remedial works and any other supporting information should be included in **Attachment I.5**.

The requirements of the European Communities Environmental Objectives (Groundwater) Regulations 2010 (S.I. No. 9 of 2010) should be considered. Information should be provided on the manner in which these Regulations were taken into account in the assessment of groundwater contamination and any remedial works carried out or proposed.

[See Attachment I.5](#)

I.6 Noise Impact.

Give details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

Ambient noise measurements

Complete Table I.6 (i) in relation to the information required below:

- (i) State the maximum Sound Pressure Levels which will be experienced at typical points on the boundary of the operation. (State sampling interval and duration)
- (ii) State the maximum Sound Pressure Levels which will be experienced at typical noise sensitive locations, outside the boundary of the operation.
- (iii) Give details of the background (or residual) noise levels experienced at the site in the absence of noise from this operation.

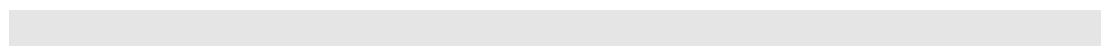
Prediction models, maps (no larger than A3), diagrams and supporting documents, including details of noise attenuation and noise proposed control measures to be employed, should form **Attachment N^o I.6**.

[See Attachment I.6](#)

I.7 Assessment of Ecological Impacts & Mitigation Measures

The ecology of the site and the surrounding area should be assessed in the vicinity of the largescale waste facilities such as landfill or incinerator developments. An assessment of the ecology should form **Attachment I.7**. Comprehensive guidelines are contained in the *Application Guidance Note*

[Not Applicable but See Attachment I.7](#)



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**.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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[See Attachment J](#)

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.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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[See Attachment K](#)

SECTION L STATUTORY REQUIREMENTS

L.1 Section 40(4) WMA

Indicate how all the requirements of Section 40(4)[(a) to (j)] of the Waste Management Act 1996, as amended, will be met.

Undertake a screening for Appropriate Assessment and state whether the activity, individually or in combination with other plans or projects, is likely to have a significant effect on a European Site(s), in view of best scientific knowledge and the conservation objectives of the site(s).

Where it cannot be excluded on the basis of objective scientific information, following screening for Appropriate Assessment, that an activity, either individually or in combination with other plans or projects, will have a significant effect on a European Site, provide a Natura Impact Statement, as defined in Regulation 2(1) of the European Communities (Birds and Natural Habitats) Regulations (S.I. No. 477 of 2011).

Where, based on screening, it is considered that an Appropriate Assessment is not required, provide a reasoned response.

The screening report and Natura Impact Statement, where applicable, shall be provided in **Attachment L.1**.

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 with any relevant additional information.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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[See Attachment L.1](#)

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 Act 1996, as amended, the EPA Act 1992, as amended, 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.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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[See Attachment L.2](#)

L.3 Waste hierarchy

Section 21A of the Waste Management Act 1996, as amended, as amended, requires that the waste hierarchy shall apply. When applying the waste hierarchy, the Agency is obliged to take measures to encourage the options that deliver the best overall environmental outcome. Any departures from the hierarchy can be justified by life-cycle thinking on the overall impacts of the generation and management of specific waste streams. Applicants should justify any departures from the hierarchy on this basis and as set out in section 21A(2) of the Acts.

Applicants should be aware of the requirements related to recovery of waste set out in section 29(2A) of the Acts. (See section H.5 above).

In accordance with article 12(1)(v) of the Waste Management (Licensing) Regulations, 2004, as amended, describe in **Attachment L.3** how the waste hierarchy is applied in or by the proposed activity.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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[See Attachment L.3](#)

L.4 Principles of self-sufficiency and proximity

Applicants should state in **Attachment L.4** how the proposed activity contributes to the requirements of Section 37A of the Waste Management Act 1996, as amended.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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[See Attachment L.4](#)



WASTE Application Form

SECTION M DECLARATION

Declaration

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

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

I give consent to the EPA to copy this application for its own use and to make it available for inspection and copying by the public, both in the form of paper files available for inspection at EPA and local authority offices and via the EPA's website. This consent relates to this application itself and to any further information, submission, objection, or submission to an objection whether provided by me as Applicant or any person acting on the Applicant's behalf.

Signed by : Marc Devereux Date : 29/09/2016
(on behalf of the organisation)

Print signature name: MARC DEVEREUX

Position in organisation : SENIOR ENGINEER

Company stamp or seal:

ANNEX 1 STANDARD FORMS

Standard forms are provided in this section for the recording and presentation of environmental monitoring and site investigation results

TABLE E.1(i) LANDFILL GAS FLARE EMISSIONS TO ATMOSPHERE
Emission Point:

Not Applicable

Emission Point Ref. N ^o :	
Location:	
Grid Ref. (12 digit, 6E,6N):	
Vent Details Diameter: Height above Ground(m):	
Date of commencement of emission:	

Characteristics of Emission:

Not Applicable

CO	mg/m ³
Total organic carbon (TOC)	mg/m ³
NO _x	mg/Nm ³ 0°C. 3% O ₂ (Liquid or Gas), 6% O ₂ (Solid Fuel)
Maximum volume of emission	m ³ /hr
Temperature	°C(max) °C(min) °C(avg)



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- (i) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up/shutdown to be included*):

Periods of Emission (avg)	_____min/hr _____hr/day _____day/yr
---------------------------	-------------------------------------

TABLE E.1(ii) MAIN EMISSIONS TO ATMOSPHERE Not Applicable
(1 Page for each emission point)

Emission Point Ref. N ^o :	
Source of Emission:	
Location:	
Grid Ref. (12 digit, 6E,6N):	
Vent Details Diameter:	
Height above Ground(m):	
Date of commencement:	

Characteristics of Emission: Not Applicable

(i) Volume to be emitted:			
Average/day	m ³ /d	Maximum/day	m ³ /d
Maximum rate/hour	m ³ /h	Min efflux velocity	m.sec ⁻¹
(ii) Other factors			
Temperature	°C(max)	°C(min)	°C(avg)
For Combustion Sources:			
Volume terms expressed as : <input type="checkbox"/> wet. <input type="checkbox"/> dry. _____% O ₂			

- (iii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____min/hr _____hr/day _____day/yr
---------------------------	-------------------------------------



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TABLE E.1(iii): MAIN EMISSIONS TO ATMOSPHERE - Chemical characteristics of the emission Not Applicable
 (1 table per emission point)

Emission Point Reference Number: _____

Parameter	Prior to treatment ⁽¹⁾				Brief description of treatment	As discharged ⁽¹⁾								
	mg/Nm ³		kg/h			mg/Nm ³		kg/h.		kg/year				
	Avg	Max	Avg	Max		Avg	Max	Avg	Max	Avg	Max			

1. Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C,101.3kPa). Wet/dry should be the same as given in Table E.1(ii) unless clearly stated otherwise.



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TABLE E.1(iv): EMISSIONS TO ATMOSPHERE - Minor /Fugitive **Not Applicable**

Emission point Reference Numbers	Description	Emission details ¹				Abatement system employed
		material	mg/Nm ³⁽²⁾	kg/h.	kg/year	

- 1 The maximum emission should be stated for each material emitted, the concentration should be based on the maximum 30 minute mean.
- 2 Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C/101.3kPa). Wet/dry should be clearly stated. Include reference oxygen conditions for combustion sources.



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TABLE E.2(i): EMISSIONS TO SURFACE WATERS NOT APPLICABLE

(One page for each emission)

Emission Point:

Emission Point Ref. N ^o :	
Source of Emission:	
Location:	
Grid Ref. (10 digit, 5E,5N):	
Name of receiving waters:	
Flow rate in receiving waters:	_____ m ³ .sec ⁻¹ Dry Weather Flow _____ m ³ .sec ⁻¹ 95%ile flow
Available waste assimilative capacity:	_____ kg/day

Emission Details:

(i) Volume to be emitted			
Normal/day	m ³	Maximum/day	m ³
Maximum rate/hour	m ³		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____ min/hr _____ hr/day _____ day/yr
---------------------------	--



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TABLE E.2(ii): EMISSIONS TO SURFACE WATERS
(1 table per emission point)

Characteristics of the emission **NOT APPLICABLE**

Emission point reference number : _____

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	

TABLE E.3(i): EMISSIONS TO SEWER Not Applicable
 (One page for each emission)

Emission Point:

Emission Point Ref. N ^o :	
Location of connection to sewer :	
Grid Ref. (10 digit, 5E,5N):	
Name of sewage undertaker:	

Emission Details:

(i) Volume to be emitted			
Normal/day	m ³	Maximum/day	m ³
Maximum rate/hour	m ³		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____ min/hr _____ hr/day _____ day/yr
---------------------------	--



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TABLE E.3(ii): EMISSIONS TO SEWER - Characteristics of the emission Not Applicable
(1 table per emission point)

Emission point reference number : _____

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	



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TABLE E.4(i): EMISSIONS TO GROUNDWATER (1 Page for each emission point) **NOT APPLICABLE**

Emission Point or Area:

Emission Point/Area Ref. N°:	
Emission Pathway: (borehole, well, percolation area, soakaway, landspreading, etc.)	
Location :	
Grid Ref. (10 digit, 5E,5N):	
Elevation of discharge: (relative to Ordnance Datum)	
Aquifer classification for receiving groundwater body:	
Groundwater vulnerability assessment (including vulnerability rating):	
Identity and proximity of groundwater sources at risk (wells, springs, etc.):	
Identity and proximity of surface water bodies at risk:	



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Emission Details: Not Applicable

(i) Volume to be emitted			
Normal/day	m ³	Maximum/day	m ³
Maximum rate/hour	m ³		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____ min/hr	_____ hr/day	_____ day/yr
---------------------------	--------------	--------------	--------------



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Table E.5 (i): NOISE EMISSIONS - Noise sources summary sheet **NOT APPLICABLE**

Source	Emission point Ref. No	Equipment Ref. No	Sound Pressure ¹ dBA at reference distance	Octave bands (Hz) Sound Pressure ¹ Levels dB(unweighted) per band								Impulsive or tonal qualities	Periods of Emission ²
				31.5	63	125	250	500	1K	2K	4K		

1. For items of plant, sound power levels may be used.
2. Periods of emission should state if the plant item in question operates on a continuous or intermittent basis. If intermittent then further details of the hours of operation and any potential impulsive components associated with the source should be clearly identified.



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TABLE F.1: ABATEMENT / TREATMENT CONTROL

Emission point reference number : _____ **NOT APPLICABLE** _____

Control ¹ parameter	Equipment ²	Equipment maintenance	Equipment calibration	Equipment back-up

Control ¹ parameter	Monitoring to be carried out ³	Monitoring equipment	Monitoring equipment calibration

¹ List the operating parameters of the treatment / abatement system which control its function.

² List the equipment necessary for the proper function of the abatement / treatment system.

³ List the monitoring of the control parameter to be carried out.

**TABLE F.2 to F.8: EMISSIONS MONITORING AND SAMPLING POINTS
(1 table per media)**

Table F.2 Surface Water

Emission Point Reference No(s). : aSW1, aSW2, aSW3

Parameter	Monitoring frequency	Accessibility of Sampling Points
Total suspended solids	Monthly*	Each of the monitoring points are n site, points will be labelled and maintained for regular visual inspections
Visual Inspection (including odour)	Daily (workdays)	
pH	Monthly*	
Electrical Conductivity	Monthly*	
Temperature	Monthly*	
Ammonia	Monthly*	
Metals	Once**	
Mineral Oils		
TON		
BOD		
COD		
TOC		
Phosphate		
Sulphate		

*During construction phase and until new vegetation established

**Once Post filling

Table F.3 Groundwater

Emission Point Reference No(s). : aGW1D, aGW1S, aGW2, aGW3

Parameter	Monitoring frequency	Accessibility of Sampling Points
Visual Inspection (including odour)	Quarterly*	Each of the monitoring points are on site, points will be labelled and maintained for regular visual inspections
pH	Quarterly*	
Electrical Conductivity	Quarterly*	
Temperature	Quarterly*	
Ammonia	Quarterly*	
Total Dissolved Solids	Quarterly*	
Metals	Once**	
Coliforms		
Alkalinity		
COD		
BOD		
TOC		
Fluoride		
Chloride		
Sulphate		
Phosphate		
TON		
Mineral Oil		

*During construction phase

**Once (post filling)



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Table F.4 Noise

Emission Point Reference No(s). : N1, N2, N3, N4

Parameter	Monitoring frequency	Accessibility of Sampling Points
Daytime Noise	Quarterly*	N1 and N4 are on site, adjacent to noise sensitive locations. N2 and N3 are at nearby properties off site.

*During placement of dredge spoil in construction phase (as per Section 10 of the EIS).
Note 1: There will be no night -time activities or potential noise sources on site during the construction phase.



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TABLE Ff: Fugitive ENVIRONMENT MONITORING AND SAMPLING LOCATIONS
(1 table per media)

Monitoring Point Reference No: D1, D2, D3, D4

Parameter	Monitoring frequency	Accessibility of Sampling point
Total Dust	Quarterly	D2 is off-site, the remainder are on site. Access to each point will be provided and maintained.

Table G.1 Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site **NOT APPLICABLE**

Ref. N° or Code	Material/ Substance⁽¹⁾	CAS Number	Danger⁽²⁾ Category	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	R⁽³⁾ - Phrase	S⁽³⁾ - Phrase

- 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° 77/94
 3. c.f. Schedules 2 and 3 of SI N° 77/94



WASTE Application Form

TABLE H.4(i): WASTE - Hazardous Waste Recovery/Disposal NOT APPLICABLE

Waste material	EWC Code	Main source ¹	Quantity		On-site Recovery/Disposal (Method & Location)	Off-site Recovery, reuse or recycling (Method, Location & Undertaker)	Off-site Disposal (Method, Location & Undertaker)
			Tonnes / month	m ³ / month			

¹ A reference should be made to the main activity / process for each waste.

TABLE H.4(ii) WASTE - Other Waste Recovery/Disposal

Waste material	EWC Code	Main source ¹	Quantity		On-site recovery/disposal ² (Method & Location)	Off-site Recovery, reuse or recycling (Method, Location & Undertaker)	Off-site Disposal (Method, Location & Undertaker)
			Tonnes / month	m ³ / month			
Wastes from forestry	02 01 07	Gorse and tree clearance from existing site	500-1000	1000-2000	Shredding for recovery at an authorised facility	Recovery	Not Applicable
Biodegradable Waste	20 20 01	Grass and vegetation cuttings from existing site	500-1000	1000-2000	Shredding for recovery at an authorised facility	Recovery	Not Applicable
Dredge Spoil	17 05 06	River Dargle Flood Defence Scheme	13,333	6,666	On site recovery	Recovery	Not Applicable
Greenfield Topsoil	20 02 03	Other development locations, greenfield sites only	600 -800	1200-1600	On site recovery	Recovery	Not Applicable

- 1 A reference should be made to the main activity/ process for each waste.
- 2 The method of disposal or recovery should be clearly described and referenced to Attachment H.1

Notes

- Conversion factor for organic wastes is 2, density at 0.5 t/m³
- Conversion factor for dredge spoil is 0.5, density of 2 t/m³
- Assumed that dredge spoil is accepted over a 15 month period.
- Assumed vegetation is cleared over a 4 month period
- Assumed topsoil is imported over a 10 month period



WASTE Application Form

Table I.2(i) SURFACE WATER QUALITY Refer to Table 13.6 in Chapter 13 of the EIS (Appendix 2 of the Attachments to this form)

(Sheet 1 of 2) Monitoring Point/ Grid Reference: _____

Parameter	Results (mg/l)				Sampling method ² (grab, drift etc.)	Normal Analytical Range ²	Analysis method / technique
	Date	Date	Date	Date			
pH							
Temperature							
Electrical conductivity EC							
Ammoniacal nitrogen NH ₄ -N							
Chemical oxygen demand							
Biochemical oxygen demand							
Dissolved oxygen DO							
Calcium Ca							
Cadmium Cd							
Chromium Cr							
Chloride Cl							
Copper Cu							
Iron Fe							
Lead Pb							
Magnesium Mg							
Manganese Mn							
Mercury Hg							



WASTE Application Form

Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			
Nickel Ni							
Potassium K							
Sodium Na							
Sulphate SO ₄							
Zinc Zn							
Total alkalinity (as CaCO ₃)							
Total organic carbon TOC							
Total oxidised nitrogen TON							
Nitrite NO ₂							
Nitrate NO ₃							
Faecal coliforms (/100mls)							
Total coliforms (/100mls)							
Phosphate PO ₄							



WASTE Application Form

Table I.4(i) GROUNDWATER QUALITY Refer to Table 12.8 in Section 12 of the EIS (included in Appendix 2 of the Attachments to this form)

(Sheet 1 of 2) Monitoring Point/ Grid Reference:

Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			
pH							
Temperature							
Electrical conductivity EC							
Ammoniacal nitrogen NH ₄ -N							
Dissolved oxygen DO							
Residue on evaporation (180°C)							
Calcium Ca							
Cadmium Cd							
Chromium Cr							
Chloride Cl							
Copper Cu							
Cyanide Cn, total							
Iron Fe							
Lead Pb							
Magnesium Mg							
Manganese Mn							
Mercury Hg							
Nickel Ni							
Potassium K							
Sodium Na							



WASTE Application Form

GROUNDWATER QUALITY (SHEET 2 OF 2)

Parameter	Results (mg/l)				Sampling method (composite, dipper etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			
Phosphate PO ₄							
Sulphate SO ₄							
Zinc Zn							
Total alkalinity (as CaCO ₃)							
Total organic carbon TOC							
Total oxidised nitrogen TON							
Arsenic As							
Barium Ba							
Boron B							
Fluoride F							
Phenol							
Phosphorus P							
Selenium Se							
Silver Ag							
Nitrite NO ₂							
Nitrate NO ₃							
Faecal coliforms (/100mls)							
Total coliforms (/100mls)							
Water level (m OD)							

WASTE Application Form

Table I.6 (i): AMBIENT & BACKGROUND NOISE ASSESSMENT -Refer to Table 10.6 in Section 10 of the EIS (included in Appendix 2 of the Attachments to this form).

Need to carry out an assessment for tonal and impulsive noise¹

	National Grid Reference (6N, 6E)	Sound Pressure Levels (dB)					
		L _{Aeq}		L _{A10}		L _{A90}	
		Ambient	Background ²	Ambient	Background ²	Ambient	Background ²
1. SITE BOUNDARY³							
Location 1:							
Location 2:							
Location 3:							
Location 4:							
2. NOISE SENSITIVE LOCATIONS³							
Location 1:							
Location 2:							
Location 3:							
Location 4:							

1. Refer to section 5 of the Agency’s *Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)* (2012).
2. Background noise levels should be determined in the absence of site specific noise. Where an installation is operational on a 24hr basis, estimates may be given for background noise levels, but this should be noted.
3. All locations should be identified on accompanying drawings.