#### **SWS Natural Resources Ltd**

MEMBER OF



Office of Licensing & Guidance Environmental Protection Agency Johnstown Castle Estate Co. Wexford 30/09/2004

Dear Sir/Madam,

RECEIVED
Time
- 1 OCT 2004 SignatureHO
Signature

We attach AVR – Environmental Solutions Ltd. waste licence application together with the stipulated fee of €20,000 as stated in the legislation.

The waste licence application is a fully completed, comprehensive document and includes all attachments as per the new Waste Management (Licensing)

Regulations, 2004. The EPA revised Guidelines on completing a Waste Licence Application and the latest EPA licence application supplied in draft format by the EPA in September 2004 form were used.

#### Please find enclosed:

- A cheque made payable to the EPA for the sum of twenty thousand euro,
- 1 Number original hard copy of the application form including all attachments labelled "original",
- 4 Number copies of the application form including all attachments in hard copy all of which are labelled "copy",
- 5 Number hardcopies of the EIS, one of which is labelled "original" and the other 4 are labelled "copy",
- 5 Number hardcopies of Attachment D2 Infrastructure in A1 format and bound as a booklet, one of which is labelled "original" and the other 4 are labelled "copy", note that these drawings are also included in A3 format in the actual hardcopies of the waste licence application for convenience,
- 10 Number CD ROMs containing all the information supplied with the

application in digital PDF format, clearly labelled.

Shinagh House, Bandon, Co.Cork

Tel: 023 41271 Facsimile: 023 41304 Email: forestry@sws.ie Web: www.sws.ie

Registered Office:
Shinagh House, Bandon, Co.Cork.
Company Reg. No. 137889.
List of directors available at head office

EPA Export 25-07-2013:13:45:57

#### **SWS Natural Resources Ltd**

MEMBER OF



AVR – Environmental Solutions Ltd. requests a refund under the Waste Management Acts 1996 to 2003 upon successful completion of the waste licence application process for the proposed Waste Recovery/Transfer and Sludge Drying Facility. This facility is a private venture being capitalised by private funds and will play a vital role in development of sustainable waste management solutions. It will accept sludge from a sector that needs to significantly reduce its dependence on landspreading and disposal to landfill. With this in mind, we would urge you to exercise your discretional power under Part VII, Section 45, of the Waste Management (Licensing) Regulations 2004, S.I. No. 395 of 2004, which states:

- 45. (1) Notwithstanding any other provision of these Regulations, the Agency shall have an absolute discretion to refund or waive up to half of any fee payable in respect of a particular application where it is satisfied that the payment in full of the fee would not be just and reasonable having regard to the relevant circumstances of the activity.
- (2) A decision under sub-article (1) shall contain a statement specifying the reasons for the decision.

We therefore suggest that a 50% refund of fee would be appropriate.

Finally we look forward to meeting you at your convenience to present this application for a waste licence and supply any additional information deemed necessary by the EPA.

Yours sincerely,

Aoife Foley BE MSc MIEL CEng

**Business Development Manager** 

Shinagh House, Bandon, Co.Cork

Tel: 023 41271 Facsimile: 023 41304 Email: forestry@sws.ie Web: www.sws.ie

Registered Office: Shinagh House, Bandon, Co.Cork. Company Reg. No. 137889. List of directors available at

head office EPA Export 25-07-2013:13:45:57

WASTE MANAGEMENT LICENCE APPLICATION WASTE MANAGEMENT LICENCE WASTE MANAGEMENT LICENCE APPLICATION WASTE MANAGEMENT LICENCE APPLICATION

#### **SWS Environmental Services**

WASTE MANAGEMENT LICENCE APPLICATION

MEMBER OF



# aste Management Licence Application



WASTE RECOVERY/TRANSFER & SLUDGE DRYING FACILITY



Prepared By: SWS Environmental Services Shinagh House Bandon Co. Cork

September 2004



## Waste Licence Application

EPA Ref. Nº: QU - 1

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

**Environmental Protection Agency** 

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



## **Environmental Protection Agency**

#### Application for a Waste Licence

#### WASTE MANAGEMENT ACTS 1996 to 2003

#### **CONTENTS**

SECTION	N A NON-TECHNICAL SUMMARY	18
SECTION	N B GENERAL	19
B.1	APPLICANT'S DETAILS	19
B.2	APPLICANT'S DETAILS  LOCATION OF ACTIVITY  PLANNING AUTHORITY  SANITARY AUTHORITY  OTHER AUTHORITIES  NOTICES AND ADVERTISEMENTS	20
B.3	PLANNING AUTHORITY OF THE PLANNING AUTHORITY	21
B.4	SANITARY AUTHORITY AUTHORITY	22
B.5	OTHER AUTHORITIES Ection Person	22
B.6	NOTICES AND ADVERTISEMENTS	23
B.7	TYPE OF WASTE ACTIVITY, TONNAGES & FEES	24
SECTIO	N C MANAGEMENT OF THE FACILITY	27
C.1	TECHNICAL COMPETENCE AND SITE MANAGEMENT	27
C.2	ENVIRONMENTAL MANAGEMENT SYSTEM	27
C.3	HOURS OF OPERATION	28
C.4	CONDITIONING PLAN	28
SECTIO	N D INFRASTRUCTURE & OPERATION	29
D.1	INFRASTRUCTURE	29
D.2	FACILITY OPERATION	31
D.3	LINER SYSTEM	31
D.4	LEACHATE MANAGEMENT	32
D5	LANDFILL GAS MANAGEMENT	32
D6	CAPPING SYSTEM	34



## Waste Licence Application AVR – Environmental Solutions Ltd.

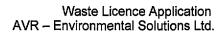
SECTION E EMISSIONS	35
E.1 EMISSIONS TO ATMOSPHERE	35
E.2 EMISSIONS TO SURFACE WATERS	35
E.3 EMISSIONS TO SEWER	35
E.4 EMISSIONS TO GROUNDWATER	35
E.5 NOISE EMISSIONS	36
SECTION F CONTROL & MONITORING	37
F.1: TREATMENT, ABATEMENT AND CONTROL SYSTEMS	37
F.2 AIR	37
F.3 SURFACE WATER	38
F.4 SEWER DISCHARGE	38
F.5 GROUNDWATER	38
F.6 NOISE	38
F.7 METEOROLOGICAL DATA	38
F.8 LEACHATE	39
F.3 SURFACE WATER  F.4 SEWER DISCHARGE  F.5 GROUNDWATER  F.6 NOISE  F.7 METEOROLOGICAL DATA  F.8 LEACHATE  F.9 LANDFILL GAS  SECTION G RESOURCES USE & ENERGY EFFICIENCY	39
SECTION G RESOURCES USE & ENERGY EFFICIENCY	41
G.1 RAW MATERIALS, SUBSTANCES, PREPARATIONS AND ENERGY	41
G.2 ENERGY EFFICIENCY	41
SECTION H MATERIALS HANDLING	42
H.1 WASTE TYPES AND QUANTITIES - EXISTING & PROPOSED	42
H.2 WASTE ACCEPTANCE PROCEDURES	44
H.3 WASTE HANDLING	44
H.3A WASTE HANDLING AT THE LANDFILL FACILITY	45
H.4 WASTE ARISING	45
SECTION I EXISTING ENVIRONMENT & IMPACT OF THE FACILITY	46
SECTION I ACCIDENT DEVENTION & EMERCENCY DESPONSE	AC



## Waste Licence Application AVR – Environmental Solutions Ltd.

SECTION K AFTERCARE	REMEDIATION, DECOMMISSIONING, RESTORATION AND	50
SECTION L	STATUTORY REQUIREMENTS	51
L.2 FIT	AND PROPER PERSON	51
SECTION M	DECLARATION	53

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#### **ATTACHMENTS**

ATTACHMENT A		54
ATTACHMENT A1:	NON TECHNICAL SUMMARY	55
ATTACHMENT B		82
ATTACHMENT B1: A	APPLICANT DETAILS	83
ATTACHMENT B2: L	LOCATION MAP	87
ATTACHMENT B3: F	PLANNING AUTHORITY	91
ATTACHMENT B4:	SANITARY AUTHORITY	120
ATTACHMENT B6: 1	NOTICES AND ADVERTISEMENTS	122
ATTACHMENT B8:	SEVESO II REGULATIONS	127
ATTACHMENT C	TECHNICAL COMPETENCE AND SITE MANAGEMENT	134
ATTACHMENT C1:	TECHNICAL COMPETENCE AND SITE MANAGEMENT	135
ATTACHMENT C2:	ENVIRONMENTAL MANAGEMENT SYSTEM	140
LATTACHMENT C3:	HOURS OF OFERATION	140
ATTACHMENT D	of colytic	142
ATTACHMENT D1:	INFRASTRUCTURE	143
ATTACHMENT D2:	FACILITY OPERATION	144
ATTACHMENT E		146
ATTACHMENT E1:	EMISSIONS TO ATMOSPHERE	148
ATTACHMENT E2:	EMISSIONS TO SURFACE WATERS	154
ATTACHMENT E3:	EMISSIONS TO SEWERS	156
ATTACHMENT E4:	EMISSIONS TO GROUNDWATER	158
ATTACHMENT E5:	NOISE EMISSIONS	159
ATTACHMENT E6:	ENVIRONMENTAL NUISANCES	161
ATTACHMENT F		163
ATTACHMENT F.1:	TREATMENT, ABATEMENT AND CONTROL SYSTEMS	164
ATTACHMENT F.2 -	F.9: MONITORING AND SAMPLING POINTS	167



## Waste Licence Application AVR – Environmental Solutions Ltd.

ATTACHMENT G	174
ATTACHMENT G.1: RAW MATERIALS AND PRODUCTS	175
ATTACHMENT G.2: ENERGY EFFICIENCY	177
ATTACHMENT H	178
ATTACHMENT H.1: WASTE TYPES AND QUANTITIES EXISTING AND PROPOSED	179
ATTACHMENT H.2: WASTE ACCEPTANCE PROCEDURES	183
ATTACHMENT H.3: WASTE HANDLING PROCEDURES	187
ATTACHMENT I	189
ATTACHMENT I 2: ASSESSMENT OF IMPACTS ON SURFACE WATER DISCHARGES ON THE RECEIVING WATERS	190
ATTACHMENT I 4: ASSESSMENT OF THE IMPACT TO GROUNDWATER AND SOILS  ATTACHMENT I 6: NOISE IMPACT  ATTACHMENT J  ACCIDENT PREVENTION AND EMERGENCY RESPONSE	192
ATTACHMENT I 6: NOISE IMPACT	194
ATTACHMENT J (a) Ref Peduli	195
ATTACHMENT J 1: ACCIDENT PREVENTION AND EMERGENCY RESPONSE	196
ATTACHMENT J 1: ACCIDENT PREVENTION AND EMERGENCY RESPONSE  ATTACHMENT K  ATTACHMENT L  Consent of Control of	207
ATTACHMENT L CORE	214



#### INTRODUCTION

A valid application must contain the information prescribed in the Waste Management (Licensing) Regulations 2004 (SI No. 395 of 2004). The application should conform to the format set out in this application form and the relevant Guidance Note. Each page of the completed application form must be numbered, e.g. page 5 of 45, etc. Wherever possible, information should be supplied in the spaces given in the application form. Additional information can be included in clearly identifiable, numbered attachments, which should be cross-referenced with the relevant sections in the application form. A contents list should be included with each volume. The applicant should refer to the Guidance Note in order to ensure that the application includes all the information required. Consistent measurement units must be used throughout.

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.1 Applicants Deta	ails
CHECKED	Applicant Market	Official

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

LOCATION	1.7.3	Cork County Cou	ncil	
CHECKED	CON	Applicant J	Official	

(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,

LOCATION	Youghal Town Council	
CHECKED	Applicant √	Official

(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,

a territoria describidado	Foxhole, Youghal, Co. Cork with National Grid Reference 2097E, 7977N.		
CHECKED	Applicant J	Official [	



(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.1, Section H.1 and Attachment H.1.	
CHECKED	Applicant $J$	Official

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

LOCATION	Attachment A.1, Attachment B.7 and Table B.7.1.		
CHECKED	Applicant	ſ	Official [

(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	Attachment A.1, Section H.1 and Attachment H.1.		
CHECKED	Applicant	J	Official

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

LOCATION	Attachment G1 and Attachment G2.		
CHECKED	Applicant √	Official 🗌	

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

LOCATION	Attachment A.1, Section C.2, Attachment C.2,		
	Section H.2, Section H.3, Section H.3A,		
	Arrachment Fl.1, Arrachment D.1, Arrachment		
in the second se	D.2, Attachment H.2 and Attachment H.3.		
CHECKED	Applicant \( \int \) Official \( \square \)		



(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	This application does not form part of a licence review and therefore Section 40(4) of the Act does not apply.	
CHECKED	Applicant f Official	

(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	Attachment A.1, Section E.1, Section E.2, Section E.3, Section E.4, Section E.4, Attachment E.1, Attachment E.2, Attachment E.3, Attachment E.4 and Attachment E.5.	
CHECKED	Applicant J Official	

(1) 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.1, Section F.1, Section F.2,		
	Section F.3, Section F.4, Section F.4, Section		
4 *** *	F.5, Section F.6, Section F.7, Attachment F.1,		
ja kata	Section F.3, Section F.4, Section F.4, Section F.5, Section F.6, Section F.7, Attachment F.1, Attachments F.2 - F.9, Attachment I.2, Attachment 1.4 and Attachment I.6.		
CHECKED	Applicant √	Official	

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

LOCATION	Attachment A.1, Section F.1, Section F.2,		
	Section F.3, Section F.4, Section F.4, Section		
	F.5, Section F.6, Section F.7, Attachment F.1,		
	Attachments F.2 - F.9.		
CHECKED	Applicant	Į.	Official



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

LOCATION	Attachment A.1, Section C.2, Section D.1, Section D.2, Section H.2, Section H.3, Attachment C.2, Attachment D.1, Attachment		
	Attachment C.2, Attachment D.1, Attachment D.2, Attachment H.2 and Attachment H.3.		
CHECKED	Applicant J Official		

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

LOCATION	Section G.1 and Att	achment G.1
CHECKED	Applicant $\int$	Official

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

LOCATION	Attachment A.1. Section F. Section J. Attachment Attachment D.2, Attachment H.2, Attachment H.3 of	1.1 to Section F.7, t C.2, Attachment D.1, chment F.1, Attachment
CHECKED	Applicant √	Official

(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	Section K and	d Attachment	K	
CHECKED	Applicant	ſ	Official	



- (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

LOCATION	This is not an application in respect of landfilling and the provisions of Articles (7)(i) and (8)(a)(iv) of the Landfill Directive and section 53(1) of the Act do not apply.	
CHECKED	Applicant √	Official

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

LOCATION	This is not an application in respect of landfilling and the provisions of Section 53A of the Act do not apply.		
The state of the s			
CHECKED	Applicant J	Official	

(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,

LOCATION C	The activity is <u>not</u> for the purposes of an		
	establishment to which the European		
1	Communities (Control of Major Accident		
	Hazards involving Dangerous Substances)		
1.00	Regulations, 2000 (S.I. No. 476 of 2000).		
СНЕСКЕВ	Applicant J Official		



(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,

LOCATION	The proposed activity can not give rise to an emission containing List I and II substances specified in the Annex to Council Directive 80/68/EEC of 17 December 1979 into an aquifer.	
.CHECKED	Applicant J	Official

(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	Summary of informati	Attachment A.1 is the Non-Technical Summary of information provided in relation to the matters specified in paragraphs (a) to (t) of this sub-article.	
CHECKED	Applicant V	Official	

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

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

LOCATION	Attachment	B.6.	
CHECKED	Applicant	ſ	Official

(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 J	Official [

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

LOCATION	Attachment B.6.	
CHECKED	Applicant $\int$	Official



## Waste Licence Application AVR – Environmental Solutions Ltd.

- (d) a copy of such plans, including a site plan or plans and location map or maps, and such other particulars, reports and supporting documentation as are necessary to identify and describe, as appropriate -
  - (i) the position of the notice in accordance with article 7,

LOCATION	Attachment B.2 and Attachment B.6.		
CHECKED	Applicant J	Official	

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

LOCATION	Attachments E.1 to E.6.	
CHECKED	Applicant J	Official

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

LOCATION	Attachments F.2 - F.6.	Olife
CHECKED	Applicant J Solitor Mr.	Official [

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

INCLUDED Y/N	The appropriate fee is attached.		
CHECKED	Applicant J	Official	

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

PRO	OVIDED Y/N	not applicable		
CHI	ECKED	Applicant   √	Official	



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

PROVIDED Y/N	Yes, planning site notice, pla notice, copy of planning appl cover letter accompanying p	ication form and
CHECKED	Applicant $J$	Official

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

CD version as PDF files PROVIDED? Y/N	Yes, the entire waste licence application and supporting documentation has been provided as a PDF files on a CD.
CHECKED	Applicant J Official

Article 13 Where a development requires an Environmental Impact Assessment to be carried out, 3 copies of the environmental impact statement should accompany this application.

EIA REQUIRED? Y/N	Yes		
CHECKED	Applicant	J	Official
3 HARD COPIES OF EIS INCLUDED? Y/N	Yes		
CHECKED	Applicant	J	Official
11 CD versions of EIS, as PDF files, PROVIDED? Y/N	Yes		
CHECKED	Applicant	J	Official

Article 13 (6) Notwithstanding the requirements of sub-articles (1) and (2), all or part of 3 copies of the environmental impact statement may, with the agreement of the Agency, be submitted in a computer or other non-legible format specified by the Agency.

CD version PROVIDED? Y/N	Yes			
CHECKED	Applicant	J	Official	



#### **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 Acts 1996 to 2003.

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 Acts 1996 to 2003.

Note: <u>Drawings</u>. The following guidelines are included to assist applicants:

- All drawings submitted should be titled and dated.
- They should have a <u>unique reference number</u> and should be signed by a clearly identifiable person.
- They should indicate a scale and the <u>direction of north</u>.
- 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 up 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. Provide legends on all drawings and maps as appropriate.

Applicants must submit a signed original of the completed application, plus three copies (two copies where the application is by a local authority in respect of the carrying on of an activity located within the functional area of the authority). In cases where an Environmental Impact Statement (EIS) is required then the Agency must be supplied with three copies of the EIS. In addition the applicant must submit one copy of the complete application on a CD-ROM, and eleven CD-ROM copies of the EIS to the Agency. The e-files should be saved as a 'pdf' file, read only status.

The provision of information in an application for a waste licence, which is false or misleading, is an offence under s45 of the Acts.

<sup>&</sup>lt;sup>1</sup> Article 12(5) of the Regulations



Paradalahar g

## 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.

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

Attachment A.1 contains the Non-Technical Summary and complies with the requirements of Article 12 (1) (u) of the Waste Management (Licensing) Regulations, S.I. 395 of 2004.

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#### SECTION B GENERAL

#### **B.1** Applicant's Details

Name*:	AVR - Environmental Solutions Ltd.	
Address:	Foxhole,	
	Youghal,	
	Co. Cork.	
Tel:	not applicable	
Fax:	not applicable	
e-mail:	not applicable	

\* 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:	Ms. Aoife Foley with the second secon
Address:	SWS Natural Resources Lite.
	Shinagh House, of the same of
	Bandon, Sold Sandon, Sold Sandon
	Co. Cork.
Tel:	023 41271 💍
Fax:	023 41304
e-mail:	aoife.foley@sws.ie

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

Address:	AVR - Environmental Solutions Ltd	
	Corrin,	
	Fermoy,	
	Co. Cork.	
Tel:	025 32435	
Fax:	025 32739	
e-mail:	not applicable	

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

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





Attachment B.1 contains:

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

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

Landowner		
Lessee	<b>√</b>	
Prospective Purchaser		
Other (please specify)		

Attachment B.1 is attached with the Ownership Plan as required in the Waste Licence Application Guidance Notes.

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

Name:	not applicable	oses of co
Address:		Quil equit
Tel:		ction per le
Fax:		insperon
e-mail:		For Wigh
	•••	OV.

\*Current at the time the application is submitted

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

Name:	not applicable		 	
Address:				
Tel:		· -		
Fax:			 	
e-mail:			 	

## B.2 Location of Activity

AVR - Environmental Solutions Ltd.	
Foxhole	
Youghal	
Co. Cork	
not applicable	
not applicable	
not applicable	
	Foxhole Youghal Co. Cork not applicable not applicable



National Grid Reference	2097E,7977N
(8 digit 4E,4N)	

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

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

Attachment B.2 contains the required site locations maps as specified in the Waste Licence Application Guidance Notes. This includes Attachment B.2 (a) Site Plan, Attachment B.2 (b) Location Map and Attachment B.2 (c) Services Plan.

#### **B.3** Planning Authority

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

Name:	Cork County Council	
Address:	Planning Department,	
	Model Business Park, John Model Business Par	_
	Model Farm Road,	_
	Cork. gerthaner	
Tel:	021 486 7006	
Fax:	021 486 7007	

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

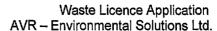
Planning Authority notified	Yes √
	No 🗌

Planning Permission relating to this application:-

has been obtained	
is being processed	5
is not yet applied for	
is not required	

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Local Authority Planning	not applicable
File Reference №:	• •
The Rejerence 11.	

Attachment B.3 should contain the most recent planning permission, including a copy of all conditions, and the required copies of any EIS should also be enclosed. For existing activities, Attachment B.3 should also contain copies of the most recent





waste licence and any permits in force at the time of submission. Where planning permission is not required for the development, provide reasons, relevant correspondence, etc.

Attachment B.3 contains a copy of the existing planning permission for the site (Reference No: S/00/7093) and the existing site waste permit (Reference No: CK(S) 23/03). Attachment B3 also contains the most recent planning site notice and planning newspaper notice. A copy of the EIS for the proposed development is attached as a separately bound report.

#### **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.

Youghal Town Council	
Mall House,	iller
Youghal,	77. 201 <sup>3</sup>
Co. Cork.	es dia
024 92926	auf Palife
024 92690	ion of the
	Mall House, Youghal, Co. Cork. 024 92926

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.

Attachment B.4 contains a copy of the letter received from Youghal Town Council in respect of granting permission to the proposed development to discharge to the outfall at Foxhole, Youghal once agreement has been reached between the EPA and Youghal Town Council.

#### **B.5** Other Authorities

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

Within SFADCo. Area	Yes	No J
---------------------	-----	------

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

Name:	Southern Health Board	
Address:	Wilton Road,	
	Cork.	
Tel:	021 4545011	
Fax:	021 4545748	



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

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

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

Attachment B.6 contains a copy of the site notice, a Site Notice Location Map B6, the whole newspaper containing the advertisement, the whole page of the newspaper containing the advertisement and correspondence notifying the Planning Authority.

Consent of copyright owner reduced for any other use.



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

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

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

Attachment B.7 identifies the principal activity and contains a brief technical description of the waste recovery/transfer activity process and the sludge drying process.

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

Waste Management Acts 1996 to 2003			
THIRD SCHEDULE Waste Disposal Activities  Y/N Waste Recovery Activities			
Waste Disposal Activities	Y/N	Waste Recovery Activities	Y/N
1. Deposit on, in or under land (including landfill).		Solvent reclamation or regeneration.	
Land treatment, including biodegradation of liquid or sludge discards in soils.		Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes).	У [Р]
<ol> <li>Deep injection of the soil, including injection of pumpable discards into wells, salt domes or naturally occurring repositories.</li> </ol>		Recycling or reclamation of metals and metal compounds.	У
Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.		Recycling or reclamation of other inorganic materials.	У
<ol><li>Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.</li></ol>		5. Regeneration of acids or bases.	
6. Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 7 to 10 of this Schedule.		Recovery of components used for pollution abatement.	
7. Physico-chemical treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 8 to 10 of this Schedule (including evaporation, drying and calcination).	У	7. Recovery of components from catalysts.	
8. Incineration on land or at sea.		8. Oil re-refining or other re-uses of oil.	
Permanent storage, including emplacement of containers in a mine.		Use of any waste principally as a fuel or other means to generate energy.	У
10. Release of waste into a water body (including a seabed insertion).		10. The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system.	
11. Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.	У	11. Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.	У
12. Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.	У	12. Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.	У
13. Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.	У	13. Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.	У



#### 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) 110,500
Year	2011

#### 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)	Nec.
Recovery of Waste (4)	20,000
	अधिर, अधिर

A refund is requested under the Waste Management Acts 1996 to 2003. This facility is a private venture being capitalised by private funds and will play a vital role in the waste handling. It will accept sludge from a sector that needs to significantly reduce its dependence on landspreading and disposal to landfill. With this in mind, we would urge you to exercise your discretional power under Part VII, Section 45, of the Waste Management (Licensing) Regulations 2004, S.I. No. 395 of 2004, which states:

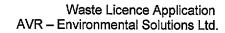
- 45. (1) Notwithstanding any other provision of these Regulations, the Agency shall have an absolute discretion to refund or waive up to half of any fee payable in respect of a particular application where it is satisfied that the payment in full of the fee would not be just and reasonable having regard to the relevant circumstances of the activity.
- (2) A decision under sub-article (1) shall contain a statement specifying the reasons for the decision.

We therefore suggest that a 50% refund of fee would be appropriate.

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

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

(a) landfill for hazardous waste	not applicable
(b) landfill for non-hazardous waste	not applicable
(c) landfill for inert waste	not applicable





#### **B.8 SEVESO II DIRECTIVE**

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

Regulations Apply	Yes	No J

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.

The proposed site will not be governed by the Seveso II Directive.

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#### SECTION C MANAGEMENT OF THE FACILITY

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

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

This information should form Attachment C 1.

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

Name	Position	Duties and Responsibilities	Experience /Qualifications
Pat O'Flynn	Company Secretary	Duties as per Companies Acts	Certificate in Mechtronic Engineering, over eight years experience in the hazardous waste business.
Jim Galvin	Director	Duties as per Companies Acts	B.Agr.Sc., M.Agr.Sc. and an MBA, over 10 years experience in various management roles in area of renewable energy.

This facility is not an existing facility therefore many of the employees are not yet recruited. However, the Project Development Team for the proposed development is Attachment C.1.

#### C.2 Environmental Management System

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

Attachment C.2 outlines the main stages that need to be addressed in the implementation of an Environmental Management System.

This facility has not been built. Therefore an Environmental Management System has not yet been developed. Much of the information required is presented in Attachment B.3 and elsewhere in this application. A detailed management plan will be prepared and submitted to the EPA from this and other information before the start-up of the proposed development and the reception of any waste.

In the longer term it is proposed that International Standard ISO 14001 (or equivalent accreditation) will be attained for the facility.



#### 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.

Attachment C.3 contains the details of the proposed hours of operation of the facility.

#### C.4 Conditioning Plan

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

This section is **not applicable** to the proposed development.



#### 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	У	See attachment D1
D.1.b	Designs for site roads	У	See attachment D1
D.1.c	Design of hardstanding areas	У	See attachment D1
D.1.d	Plant Vallet 158	У	See attachment D1
D.1.e	Wheel-wash  Laboratory facilities  Design and location of fuel storage areas	У	See attachment D1
D.1.f	Laboratory facilities	У	See attachment D1
D.1.g	Design and location of fuel storage areas	У	See attachment D1
D.1.h	Waste quarantine areas	У	See attachment D1
D.1.i	Waste inspection areas 150	У	See attachment D1
D.1.j	Traffic control	У	See attachment D1
D.1.k	Sewerage and surface water drainage infrastructure	У	See attachment D1
D.1.l	All other services	У	See attachment D1
D.1.m	Plant sheds, garages and equipment compound	У	See attachment D1
D.1.n	Site accommodation	У	See attachment D1
D.1.0	A fire control system, including water supply	У	See attachment D1
D.1.p	Civic amenity facilities	У	See attachment D1
D.1.q	Any other waste recovery infrastructure	У	See attachment
D.1.r	Composting infrastructure	N	not applicable



## Waste Licence Application AVR – Environmental Solutions Ltd.

D.1.s	Construction and Demolition waste infrastructure	N	not applicable
D.1.t	Incineration infrastructure (if applicable).	N	not applicable
	Provide information to fulfil Article 4 (2) & (3) of the		
	Incineration of Waste Directive		<u> </u>
D.1.u	Any other infrastructure	N	not applicable

Attachment D.1 contains drawings of the site infrastructure. Each drawing follows the EPA numbering sequence and uses the headings and numbers established in Table D.1. These drawings are scaled to A3 paper size however, for increased detail the drawings are also provided as A1 paper size in a separately bound report.

Consent of copyright owner required for any other use.



#### 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*.

<del></del>			
Attachment included	yes √	no 🗌	not applicable

Attachment D.2 the plant, methods, processes and operations of the waste facility.

#### **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

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 only (ie 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

	a di C	y/n	Comments
D.3.a	Provide information to fulfil Annex 1 of the Landfill Directive		not applicable
D.3.b	What type of liner system is specified?		not applicable
D.3.c	Has a Quality Control Plan been specified?		not applicable
D.3.d	Has a Quality Assurance Plan been specified?		not applicable
D.3.e	Have independent, third-party supervision, testing and controls been specified?		not applicable
D.3.f	Have basal gradients for all cells and access ramps to the cells been designed?		not applicable
<b>D.3.g</b>	Has a leak detection survey been specified?		not applicable



#### D.4 Leachate Management

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

TABLE D.4.1 LEACHATE MANAGEMENT ARRANGEMENTS

<u> </u>		y/n	Comments
D.4.a	Is there a Leachate Management Plan?		not applicable
D.4.b	Have annual quantities of leachate been calculated?		not applicable
D.4.c	Has the total quantity of leachate been calculated?		not applicable
D.4.d	Have the size of the cells been specified taking account of the water balance calculations?		not applicable
D.4.e	Has a leachate collection system been specified?		not applicable
<b>D.4.f</b>	Has a leachate storage system been specified?		not applicable
D.4.g	Has a system for monitoring the level of leachate in the waste been designed?		not applicable
D.4.h	Is leachate recirculation proposed/practised?		not applicable
D.4.i	Has leachate treatment on-site been specified?		not applicable
D.4.j	Has leachate removal been specified?		not applicable

#### D5 Landfill Gas Management

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 only (ie 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.

not applicable



## Table D.5. Landfill Gas Management

		y/n	Comments
D.5a	Is there a Landfill Gas Management Plan?		not applicable
	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:		
<b>D.5</b> b	Is there a passive venting system?		not applicable
D.5c	Does the passive system cover all of the filled area?		not applicable
D.5d	Have gas alarm systems been installed in the site buildings?		not applicable
D.5e	Have measures been installed to prevent landfill gas migration (e.g. barriers)?	other	not applicable
D.5f	Has a time-scale been proposed for the installation of landfill gas infrastructure?	MY	not applicable
D.5g	Is gas flaring undertaken at the site?		not applicable
D.5h	Is there an active (i.e., pumped) landfill gas extraction system?		not applicable
D.5i	Does the active system cover all of the filled area?		not applicable
D.5j	Is landfill gas used to generate energy at the site?		not applicable
D.5k	Have emissions from the flarestack and utilisation plant been assessed for source, composition, quantity and level and rate?		not applicable
D.51	Has a maintenance programme for the control system been specified?		not applicable
D.5m	Has a condensate removal system been designed?		not applicable



# D6 Capping System

Complete the following table detailing the design of the capping system. Attachment D.6 should contain the appropriate documentation. Items D6e to D6k should only be completed for immediate projects only (ie 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

		x7/m	Commonts
		y/n	Comments
D.6a	Has the daily cover been specified?		not applicable
<b>D.6</b> b	Has the intermediate cover been specified?		not applicable
D.6c	Has the temporary capping been specified?		not applicable
D.6d	Has the Capping System been designed and		not applicable
	does it meet the requirements of the Landfill		
	Directive Annex 1 (3.3)?	inge.	
D.6e	Does the Capping System include a flexible	der	not applicable
	membrane liner?		
<b>D.6f</b>	Have all capping materials been specified?		not applicable
D.6g	Has a Method Statement for construction		not applicable
	been produced?		
D.6h	Has a Quality Control Plan been produced?		not applicable
<b>D.6</b> i	Has a Quality Assurance Plan been		not applicable
	produced?		
D.6j	Has a programme for monitoring landfill		not applicable
	stability been developed?		
D.6k	Has a programme for monitoring landfill		not applicable
L	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 <u>all</u> 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.

Tables E.1(ii) and E.1(iii) for <u>all</u> other main emission points are completed and form **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.

There will be no emissions to surface waters therefore Attachment E.2 is not applicable. The facility proposes to discharge storm water and treated process waters via the Youghal Town Council Sewer Network to an outfall for the medium term until a Municipal Water Treatment Plant is built in Youghal.

#### E.3 Emissions to Sewer

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

Tables E.3(i) and E.3(ii) for emissions to sewer are completed and form Attachment E.3.

#### E.4 Emissions to Groundwater

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

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

Supporting information should form Attachment E.4

There will be no emissions to groundwater therefore Attachment E.4 is not applicable.





#### 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

Table E.5(i) for noise emission is completed and forms 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 D.6 ENVIRONMENTAL NUISANCES

		V) V)		
Bird Control	Control method specified	yes	no	not applicable √
	Attachment included	yes J	no	not applicable
<b>Dust Control</b>	Control method specified	yes√	no	not applicable
	Attachment included	yes √	no	not applicable
Fire Control	Control method specified	yes √	no	not applicable
	Attachment included	yes√	no	not applicable
Litter Control	Control method specified	yes 🗌	no	not applicable $J$
	Attachment included	yes√	no	not applicable
Traffic Control	Control method specified	yes [	no	not applicable
	Attachment included	yes √	no	not applicable
Vermin Control	Control method specified	yes 🗌	no	not applicable √
	Attachment included	yes √	no	not applicable
Road Cleansing	Control method specified	yes 🗌	no	not applicable 1
	Attachment included	yes √	no	not applicable

Further information on environmental nuisances control is included in 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 schematics as appropriate.

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

Table F.1 and information on the proposed treatment, abatement and control technology is provided in **Attachment F.1**.

Attachment F.1 should contain any supporting informations.

# 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 <u>must</u> refer to the Agency Landfill Monitoring Manual (2003) for further details on monitoring requirements for proposed facilities.

Include details of monitoring/sampling locations and methods.

#### F.2 Air

- to include Dust, Odour

Monitoring Arrangements specified	yes√	no	not applicable
Monitoring points identified, (plus	yes√	no	not applicable
12-figure grid references)			
Attachment included	yes √	no	not applicable



#### 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 🗌	no	not applicable √
Monitoring points identified, (plus	yes 🗌	no	not applicable √
12-figure grid references)			
Attachment included	yes 🗌	no	not applicable ${\mathcal I}$

#### 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√	no	not applicable
Monitoring points identified, (plus	yes √	no	not applicable
12-figure grid references)			e. 
Attachment included	yes √	no	not applicable

F.5 Groundwater

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

Monitoring Arrangements specified	yes 🗌	no	not applicable √
Monitoring points identified, (plus	yes 🗌	no	not applicable √
12-figure grid references)			
Attachment included	yes 🗌	no	not applicable √

#### F.6 Noise

Monitoring Arrangements specified	yes √	no	not applicable
Monitoring points identified, (plus	yes s	no	not applicable
12-figure grid references)			
Attachment included	yes √	no	not applicable

#### **F.**7 Meteorological Data

Monitoring Arrangements specified	yes 🗌	no	not applicable √
Monitoring points identified, (plus 12-figure grid references)	yes 🗌	no	not applicable √
Attachment included	yes 🗌	no	not applicable √



Application for Landfills require the additional Attachments F.8 to F.9, to be completed:

#### F.8 Leachate

Monitoring Arrangements specified	yes 🗌	no	not applicable √
Monitoring points identified, (plus	yes 🗌	no	not applicable √
12-figure grid references)			
Attachment included	yes 🗌	no	not applicable √

# F.9 Landfill Gas

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/Nm³)	Proposed Frequency of Analysis	Information Included Y/N	Method of Analysis	Information Included Y/N
Inlet	not applicable	N. T. LON			
Methane (CH <sub>4</sub> ) % v/v	not applicable	7.4			
Carbon dioxide (CO <sub>2</sub> ) %v/v	not applicable				
Oxygen (O2) % v/v	not applicable				
Outlet	not applicable				
Volumetric Flow Rate	not applicable				
SO₂	not applicable			<u> </u>	
Nox	not applicable				
со	not applicable				
Particulates	not applicable				
TA Luft Class I, II, III organics	not applicable				
Hydrochloric acid	not applicable				
Hydrogen Fluoride	not applicable				

# Table F.9(b) Landfill Gas Monitoring

Parameter	Proposed Freq Analysis	uency of	Information Included Y/N	Method of Analysis	Information Included Y/N
	Gas boreholes / vents/ wells/ perimeter locations	Facility Office			
Methane (CH <sub>4</sub> ) % v/v	not applicable				
Carbon Dioxide (CO <sub>2</sub> ) % v/v	not applicable				
Oxygen (O2) % v/v	not applicable				
Atmospheric Pressure	not applicable				
Temperature	not applicable				



# Waste Licence Application AVR – Environmental Solutions Ltd.

# Table F.9 (c) Landfill Gas Infrastructure

Equipment	Monitoring Frequency	Information Included Y/N	Monitoring Action	Information Included Y/N
Gas Collection System	not applicable			
Gas Control System	not applicable			

Monitoring Arrangements specified	yes 🗌	no	not applicable $\mathcal I$
Monitoring points identified, (plus	yes 🗌	no	not applicable √
12-figure grid references)			
Attachment included	yes 🗌	no	not applicable ${\mathcal I}$

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### 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 metaded   yes v	Attachment included	yes√	no	not applicable
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# G.2 Energy Efficiency

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

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Attachment included	yes√	no	not applicable
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#### SECTION H MATERIALS HANDLING

# H.1 Waste Types and Quantities - Existing & Proposed

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

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

Waste Ma	anagen	nent Act	W	aste M	anagement Act
3rd Schedule	(Dispo:	sal) Activities	4th Sch	edule (	Recovery) Activities
Class of Activity Applied For		Quantity (tpa)	Class of Activity Applied For		Quantity (tpa)
Class 1			Class 1		
Class 2			Class 2	У	<i>5</i> 0,500
Class 3			Class 3	Yothe	3,000
Class 4			Class 4	ally	3,000
Class 5			Class 5		
Class 6	<u> </u>		Class 6		
Class 7	У	30,000	Class 7		
Class 8	1		Class 8		
Class 9		, in	Class 9	У	10,000
Class 10		£0,041	Class 10		
Class 11	У	2,500	Class 11	У	2,500
Class 12	У	2,500	Class 12	У	2,500
Class 13	У	2,500	Class 13	У	2,500

Note: The information contained **Table H.1 (A)** is only an estimate of the breakdown of the waste at full operating capacity at the proposed facility based on an analysis of current waste data available.

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



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

(tonnes per annum)	waste (tonnes per annum)	of waste (tonnes per annum)
40,000	not applicable	40,000
110,500	not applicable	110,500
	10,000	annum) 10,000 not applicable

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

TABLE H.1 (C) WASTE TYPES AND QUANTITIES

WASTE TYPE	TONNES PER ANNUM (existing)	TONNES PER ANNUM (proposed)	TOTAL (over life of site) tonnes
Household	not applicable	Domestic skips only with prior agreement from ERA	not applicable
Commercial	not applicable	65,500	not applicable
Sewage Sludge	not applicable gight	5,000	not applicable
Construction and Demolition	not applicable rodylighton	10,000	not applicable
Industrial Non- Hazardous Sludges	not applicable of Consent	25,000	not applicable
Industrial Non- Hazardous Solids	not applicable	5,000	not applicable
Hazardous  *(Specify detail in Table H 1.2)	not applicable	not applicable	not applicable
Inert Waste imported for restoration purposes	not applicable	not applicable	not applicable

Note: The information contained **Table H.1** (C) is only an estimate of the breakdown of the waste at full operating capacity at the proposed facility based on an analysis of current waste data available.



#### \* TABLE H.1.2 HAZARDOUS WASTE TYPES AND QUANTITIES

HAZARDOUS WASTE	DETAILED DESCRIPTION  * REFERENCE SHOULD BE MADE TO THE RELEVANT EUROPEAN WASTE CATALOGUE CODES AS PRESENTED BY COMMISSION DECISION 2000/532/EC	Tonnes Per Annum (Existing)	(Tonnes Per Annum Proposed)
Waste Oil	not applicable		
Oil filters	not applicable		
Asbestos	not applicable		
Paint and Ink	not applicable		
Batteries	not applicable		
Fluorescent Light Bulbs	not applicable		
Contaminated Soils	not applicable		
OTHER HAZ	ARDOUS WASTE (APPLICAN	T TO SPECIF	FY)
	not applicable oliter		

Attachment H.1 should contain any relevant additional information. It should be noted that an applicant may be issued with a licence which restricts the type of wastes which may be deposited.

# H.2 Waste Acceptance Procedures

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

Attachment H.2 contains waste acceptance procedures for the waste arriving at the proposed waste recovery/and transfer and sludge drying facilities.

## 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*.

Attachment H.3 contains details of the waste handling and operating procedures for all proposed waste types.



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

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

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

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

not applicable

## H.4 Waste Arising

Waste Arising should be considered for all contaminated soil applications. Details of all waste materials generated on the site including, name, description and nature as well as the source(s) should be identified. The quantities of each type of waste generated on an annual/monthly basis should be calculated and stated in Tables H.1(i) and H. 1(ii) of the application form. Applicants should also provide conversion factors used to relate volume (m³) and tonnage (t) for their waste stream.

not applicable



#### 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.

Note: An EIS accompanies this waste licence application as part of Attachment B3.

# 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.

Note: Refer to Section 4 in the Environmental Impact Statement (Attachment B3) the Air Modelling Report.

# 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.



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

Note: Refer to Section 5 in the Environmental Impact Statement (Attachment B3) and to Table I 2(i) in 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.

Note: Refer to Section 5 in the Environmental Impact Statement (Attachment B3).

# 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 1.4**. 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.

Note: Refer to Section 3 in the Environmental Impact Statement (Attachment B3) and to Table I 4(i) in 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, plans, drawings, documentation, including containment engineering, remedial works, and any other supporting information should be included in **Attachment I.5**.

Note: Refer to Section 3 in the Environmental Impact Statement (Attachment B3).



## **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 noise levels experienced at the site in the absence of noise from this operation.

Prediction models, maps, diagrams and supporting documents, including details of noise attenuation and noise proposed control measures to be employed, should form **Attachment I.6.** 

Note: Refer to Section 6 in the Environmental Impact Statement (Attachment B3) and to Table I 6(i) in 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 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* 

Note: Refer to Section 8 in the Environmental Impact Statement (Attachment B3).



# 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 √	no	not applicable
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# SECTION K REMEDIATION, DECOMMISSIONING, RESTORATION AND AFTERCARE

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

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

Attachment included	yes s	no	not applicable
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#### SECTION L STATUTORY REQUIREMENTS

## L. 1 Section 40(4) WMA

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

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

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

Attachment included	yes √	no	not applicable

# L.2 Fit and Proper Person

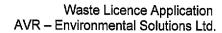
The WMA in Section 40(4)(d) specifies that the Agency shall not grant a licence unless it is satisfied that the applicant (if the applicant is not a local authority) is a fit and proper person. Section 40(7) of the WMA specifies the information required to enable a determination to be made by the Agency.

• Indicate whether the applicant or other relevant person has been convicted under the Waste Management Acts 1996 to 2003, the EPA Act 1992 and 2003, the Local Government (Water Pollution) Acts 1977 and 1990 or the Air Pollution Act 1987.

Note: The applicant has not been convicted under the Waste Management Acts 1996 to 2003, the EPA Act 1992 and 2003, the Local Government (Water Pollution) Acts 1977 and 1990 or the Air Pollution Act 1987.

• Provide details of the applicant's technical knowledge and/or qualifications, along with that of other relevant employees (Link to Section C.1 of the application).

Name	Position	Duties and Responsibilities	Experience /Qualifications
Jim Galvin	Director	Duties as per Companies Acts	B.Agr.Sc., M.Agr.Sc. and an MBA, over 10 years experience in various management roles in area of renewable energy. Refer to Attachment C1 for additional information.





E4 KASESE

• 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).

Note: Attachment L contains a letter from O'Leary Insurance Group confirming that AVR – Environmental Solutions Ltd. can arrange the necessary insurances to cover al required liabilities.

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

Attachment included yes I no not applicable

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# SECTION M DECLARATION

#### **Declaration**

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

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

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

Signed by: (on behalf of the organisation)	Jim Gol	Date: 30/09/04
Print signature name:	JIM GALVIN NY MY OHET W	
Position in organisation:	Director http://director	
	JIM GALVIN  Director  Director  Exity production purposes and for any other use.	
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