



Industrial Emissions Licensing

Section 90(4)(a) Review Form and Guidance Note

This form is for the purpose of enabling the Agency to complete an agency initiated review of an Industrial Emissions licence or revised licence under Section 90(4)(a) of the EPA Act 1992 as amended (i.e. a questionnaire for the purposes of completing the review).

EPA Reg. N^o:	P0040-03
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Environmental Protection Agency

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Tracking Amendments to Review Form

Version No.	Date	Amendment since previous version	Reason
V.1.1.0	16.10.2019	Include additional part to form.	OEE Agency Initiated Review.

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ABOUT THIS REVIEW FORM

This form is for the purpose of a review of a licence or revised licence relating to an industrial emissions directive activity in order to ensure that necessary documents, particulars and other information are provided by the licensee so that the Agency can:

- a. Review, assess and specify all main emission points in Schedule and Conditions of IE licence,
- b. assess compliance with the Industrial Emissions Directive (including baseline report requirements etc.),
- c. assess compliance with the relevant Commission Implementing Decisions,
- d. have regard to any change in environmental quality in the area of the installation (Section 90(6)),
- e. have regard to any emerging techniques in particular those emerging techniques identified in the BAT reference documents (Section 90(6)),
- f. compare the operation of the installation, including an assessment of the results of environmental monitoring, with the BAT described in the applicable BAT conclusions and with the emissions levels associated with the BAT (Section 90(8)),
- g. facilitate public participation in the licence review process by providing information about the activity and where it is situated,
- h. ensure any variations or adjustments to the licence agreed by the Office of Environmental Enforcement are considered, and
- i. ensure coherence with planning and development requirements.

The completed Review Form and all supporting information should be uploaded via EDEN Portal. If you have any further queries, please contact licensing@epa.ie.

Guidance on how to use the EDEN portal is available on the EPA website at <http://www.epa.ie/pubs/forms/lic/industrial%20emissions/licenceapplicationformguidance.html>.

To enable the Agency to expedite the licence review process, licensees are requested to submit the completed review form and all supporting information no later than the date specified in the Section 90(7) Notice.

The Agency shall proceed with drawing up the proposed determination, if there is no submission of the attached form and requested additional documentation by the date specified in the Section 90(7) Notice.

All attachments should be submitted in searchable PDF format and be no larger than 10MB each in size. Supporting information is to be submitted via EDEN Portal.

You are directed to:

- a. Complete BATC Assessment Review excel spreadsheets for all relevant Commission Implementing Decisions and upload as an attachment via EDEN portal.
- b. Complete this Review Form and [other relevant sub-sections of the form](#) as an attachment and upload via EDEN portal.

- c. Complete relevant air (incl. odour) dispersion models/surface water impact assessments as an attachment and upload via EDEN portal.
- d. Upload relevant air/surface water/noise/odour monitoring results as an attachment via EDEN portal.
- e. Upload any other attachment as an 'additional attachment' via EDEN portal.

SECTION A: GENERAL

A.1. Licensee and location of licensed installation

Existing Licence Register Number:	
Name of licensee*:	
Address of installation:	
Tel:	
Fax:	
e-mail:	

* This should be the name of the licensee which is current on the date this Review Form is lodged with the Agency. It should be the name of the legal entity (which can be a limited company and has a CRO number and or a sole trader) that holds the licence. A trading/business name is **not acceptable**.

National Grid Reference (12 digit 6E,6N)	Grid references for the centre of the site
-------------------------------------------------	--------------------------------------------

CRO No. and address of registered or principal office of Body Corporate

CRO No.
Address of company:
Tel:
Fax:
e-mail:

Name and Address for Correspondence

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

Name:
Address:
Tel:
Fax:
e-mail:

A.3. Class of Activity

Input, as authorised in the existing licence, the relevant activities from the First Schedule of the EPA Act 1992 as amended, authorised at the installation:

Class of activity	Description (amend First Schedule of the EPA Act 1992 as amended, wording to reflect your activity)

A.3A Classes of Waste Activity

If a Class 11 activity is listed in your response to A.3, identify the relevant activities as listed in Annex I and Annex II of the Waste Framework Directive (2008/98/EC) by completing table A.3A below.

TABLE A.3A Classes of Waste Activity

Waste Framework Directive 2008/98/EC

Annex I Disposal Operations		Y/N
D 1	Deposit into or on to land (e.g. including landfill, etc.).	
D 2	Land treatment (e.g. biodegradation of liquid or sludgy discards in soils, etc.).	
D 3	Deep injection (e.g. injection of pumpable discards into wells, salt domes or naturally occurring repositories, etc.).	
D 4	Surface impoundment (e.g. placement of liquid or sludgy discards into pits, ponds or lagoons, etc.).	
D 5	Specially engineered landfill (e.g. placement into lined discrete cells which are capped and isolated from one another and the environment, etc.).	
D 6	Release into a water body except seas/oceans.	
D 7	Release to seas/oceans including sea-bed insertion.	
D 8	Biological treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12.	
D 9	Physico-chemical treatment not specified elsewhere in this Annex 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.).	
D 10	Incineration on land.	
D 11	Incineration at sea. ¹	
D 12	Permanent storage (e.g. emplacement of containers in a mine, etc).	
D 13	Blending or mixing prior to submission to any of the operations numbered D 1 to D 12. ²	
D 14	Repackaging prior to submission to any of the operations numbered D 1 to D 13.	
D 15	Storage pending any of the operations numbered D 1 to D 14 (excluding	

¹ This operation is prohibited by EU legislation and international conventions.

² If there is no other D code appropriate, this can include preliminary operations prior to disposal including pre-processing such as, inter alia, sorting, crushing, compacting, pelletising, drying, shredding, conditioning or separating prior to submission to any of the operations numbered D1 to D12.

Annex I Disposal Operations		Y/N
	temporary storage, pending collection, on the site where the waste is produced). ⁷	

Annex II Recovery Operations		Y/N
R 1	Use principally as a fuel or other means to generate energy. ³	
R 2	Solvent reclamation/regeneration.	
R 3	Recycling /reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes). ⁴	
R 4	Recycling/reclamation of metals and metal compounds.	
R 5	Recycling/reclamation of other inorganic materials. ⁵	
R 6	Regeneration of acids or bases.	
R 7	Recovery of components used for pollution abatement.	
R 8	Recovery of components from catalysts.	
R 9	Oil re-refining or other reuses of oil.	
R 10	Land treatment resulting in benefit to agriculture or ecological improvement.	
R 11	Use of waste obtained from any of the operations numbered R 1 to R 10.	
R 12	Exchange of waste for submission to any of the operations numbered R 1 to R 11. ⁶	
R 13	Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced). ⁷	

A.4 Industrial Emissions Directive

³ This includes incineration facilities dedicated to the processing of municipal solid waste only where their energy efficiency is equal to or above:

- 0.60 for installations in operation and permitted in accordance with applicable Community legislation before 1 January 2009,

- 0.65 for installations permitted after 31 December 2008,

using the following formula:

$$\text{Energy efficiency} = (E_p - (E_f + E_i)) / (0.97 \times (E_w + E_f))$$

In which:

'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.

This formula shall be applied in accordance with the reference document on Best Available Techniques for waste incineration.

⁴ This includes gasification and pyrolysis using the components as chemicals.

⁵ This includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials.

⁶ If there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as, inter alia, 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.

⁷ Temporary storage means preliminary storage according to point (1) of Article 3 [of the Waste Framework Directive 2008/98/EC].

State whether the installation falls under the scope of Chapters III, IV, V or VI of the Industrial Emissions Directive (2010/75/EU).

Yes No

If yes specify the relevant sections and Annex.

IED Chapter(s)	Y/N	Identify Annexes to the Directive relevant to your licence	Applicability to the installation
Chapter III			
Chapter IV			
Chapter V			
Chapter VI			

A.5. Planning Permission Requirements associated with this review

A.5.1

State whether **development** is required for the purposes of achieving compliance with the Commission Implementing Decision of 30 May 2016 establishing the best available techniques (BAT) conclusions under Directive 2010/75/EU of the European Parliament and of the Council on industrial emissions for common waste water and waste gas treatment/management systems in the chemical sector (2016/902/EU).

Yes No

A.5.2

If yes to A.5.1, State whether **planning permission** is required for this development:

Yes No

If no to A.5.2, provide written confirmation as an **Attachment numbered N°. A.5.2** from the planning authority or An Bord Pleanála that planning permission is not required for this development.

If yes to A.5.2:

- give details of the planning status relating to the development required for the purposes of achieving compliance with the CID 2016/902/EU:

A.5.(a) has been obtained	
A.5.(b) has been refused	

Local Authority Name and Planning File Reference N°:	
An Bord Pleanála Planning File Reference No:	

If yes to A.5.2:

- provide a copy of any report on a screening for Appropriate Assessment and, if prepared, a 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 as an **Attachment numbered N° A.5c.**

A.6 Seveso III Regulations

State whether the activity is an establishment to which the EC (Control of Major Accident Hazards involving Dangerous Substances) Regulations (S.I. No. 209 of 2015) apply.

Yes No

If yes, outline how the installation comes under these Regulations.

If yes, outline existing or proposed measures, including emergency procedures, to minimise the impact on the environment of an accidental emission or spillage having regard to the Safety Report and/ or Major Accident Prevention Policy as appropriate.

Supporting information should be included in an **Attachment numbered N° A.6.**

A.7 Mercury Regulation

State whether the activity is one to which the following apply:

- European Union (Mercury) Regulations (S.I. No. 533 of 2018),
- Regulation (EU) No 2017/852 of the European Parliament and of the Council of 17 May 2017 on mercury and repealing Regulation (EC) No 1102/2008.

Yes No

If yes, outline in an **Attachment Numbered N° A.7** how the activity comes under these Regulations.

A.8 Regulations Controlling Fluorinated Greenhouse Gases and Ozone Depleting Substances

State whether the installation is one to which the following apply:

- Operator of equipment and systems containing ozone depleting substances, in accordance with Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer.

Yes No

- Operator of equipment and systems containing fluorinated greenhouse gases, in accordance with Regulation (EC) No. 517/2014 on certain fluorinated greenhouse gases.

Yes No

If yes, outline in an **Attachment Numbered N° A.8** how the activity comes under these regulations.

More information and guidance is available on the EPA website:

<http://www.epa.ie/air/airenforcement/ozone/guidanceanddownloads/>

A.9 Indicative list of the principal polluting substances

State whether any of the substances specified in the Schedule of the EPA (Industrial Emissions)(Licensing) Regulations 2013, S.I. No. 137 of 2013, are emitted by the activity to air and/or water.

Yes No

If yes, identify and list the substances and where appropriate the associated emission limit value specified in the licence in an **Attachment numbered No A.9.**

A.10 Updates to the conditions or schedules of the existing licence agreed by the Agency (e.g. trigger levels)

For the purposes of consistency and expediency, you should provide details of any variations and agreements to the existing licence conditions or schedules agreed with the Agency since grant of your existing licence. **Attachment numbered N^o A.10** should include the schedule of variations and/or adjustments (in a format as outlined below) together with updated drawings, where appropriate.

Condition/ Schedule No.	Existing Condition	OEE Agreement Reference	Description

A.11 Once-off assessments and reports required and approved under the existing licence

Please provide status details of any once-off assessments and/or reports required under the conditions and schedules of the existing licence.

Attachment numbered N^o A.11 should include the schedule of submission of once-off reports (in a format as outlined below).

Condition/ Schedule No.	Date submitted	OEE Agreement Reference	Description

SECTION B: COMPARISON WITH BAT

B.1 A comparison of the operation of the installation with BAT

You must submit the **results of emissions monitoring** from the preceding three years in an **Attachment numbered N°. B.1**. This includes emissions monitoring as specified in the existing licence or any other emissions monitoring carried out by or on behalf of the licensee.

You must **evaluate the monitoring results** and other data and **present your assessment** such that it will enable a comparison of the operation of the installation with the best available techniques described in the applicable BAT conclusions and with the emission levels associated with the best available techniques in accordance with Section 86A(9) of the Act of 1992 as amended.

Complete the tables in Annex I as appropriate for this purpose and include in an **Attachment numbered N°. B.1**.

B.2 BAT consideration:

The BAT conclusions from the relevant commission implementing decisions have been prepopulated into the web-form for your use. Each BAT has a free text field and ability to upload a 10MB attachment for your use. Further guidance on completing the BAT consideration is available on the web form.

Your assessment of each BATC shall be uploaded as attachment **N° B.2** via EDEN Portal.

B.3 Emerging Techniques

State whether you propose to test and use an 'emerging technique' in particular those identified in the BREF reference documents relevant to the activity:

Yes No

If yes, describe your proposal and include in **as an uploaded attachment N° B.3 via EDEN Portal**.

B.4 Other relevant conclusions on BAT

Tabulate, using the format in Table B.4(i) below, all the relevant conclusions on BAT from the following BREF documents:

- Reference Document on Best Available Techniques for Energy Efficiency, February 2009;
- Reference Document on Best Available Techniques on Emissions from Storage, July 2006;
- Monitoring of emissions to Air and Water from IED Installations, July 2018;
- Reference Document on Best Available Techniques on Industrial Cooling Systems December 2001;

- Commission Implementing Decision for Food, Drink and Milk Industries (2019/2031) (Nov., 2019);
- Reference Document on Best Available Techniques for Slaughterhouse and Animal By-Products Industries (due to be drafted/published 2021/2022) and Commission Implementing Decision (due to be drafted/published 2021/2022).

Other relevant Reference Documents on Best Available Techniques for other activities/processes carried on at the installation.

These documents are available on the European IPPC bureau website at:

<http://eippcb.jrc.ec.europa.eu/reference/>

For each relevant conclusion on BAT, in Table B.4(i), describe how each BAT applies to your installation and provide information on your compliance with the requirement.

For each applicable BAT, state the status; 'Yes', 'Will be' or 'No' as appropriate; the use of each of these terms is described below. Information on compliance in the 'Applicability Assessment' box should include, where applicable, the following:

- Identification of the relevant process/ activity or individual emission points that the BAT requirement applies to at your installation;
- Where BAT is to use one or a combination of listed techniques, specify the technique(s) implemented/proposed at your installation to achieve the BAT; and
- A comment on how the requirements are being met or will be met, e.g., a description of the technology/operational controls/management proposed to meet the requirements.

Use of terms:

(a) 'Yes' – To be selected where the installation is currently compliant with this BAT requirement.

(b) 'Will be' – To be selected where a further technique is required to be installed to achieve compliance with the BAT requirement. In this case you must also give the date, by which the installation will comply with the BAT requirement.

Your assessment shall be submitted via EDEN portal as **attachment No B.4 (i)**.

Other documents which are of relevance for the activities:

- REF on Economic and Cross-media Effects;
- REF on Monitoring of Emissions from IED installations;

Table B.4 (i) CONCLUSIONS ON BAT

Title of Document			
BAT reference Number	BAT Statement	Applicability Assessment (describe how this technique applies or not to your installation)	State if in place or state schedule for implementation
<i>e.g. BAT 1</i>	<i>BAT is to implement and adhere to an</i>	<i>Applicable</i>	<i>Standardised EMS in place</i>

	<i>environmental management system (EMS) that incorporates all of the following features....</i>		

B.5 Tabular Data on Emission and Monitoring Points

You must submit the following information for each emission and monitoring point and include in an **Attachment numbered N^o. B.5:**

Point Code	Point Type	Easting	Northing	Verified	Emission/monitoring
References assigned in existing licence	A=Atmospheric SW=Surface Water SE = Sewer GW=Groundwater N = Noise SL=Soil/Ground WS=Waste	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used	E / M

SECTION C: Waste Prevention and Management

C.1 Waste Prevention

Describe in an **Attachment numbered N^o C.1** the arrangements and measures taken for the prevention of waste in accordance with Article 12(1)(h) of the Industrial Emissions Directive.

State whether the installation has participated in any projects under the National Waste Prevention Programme.

Yes No

If yes, give an outline of the project and its conclusions and include in an **Attachment numbered N^o C.1.**

C.2 Recovery or disposal of solid and liquid wastes generated at the installation.

You must complete Table C.1(i) of Annex I for each waste generated at the installation. Where any waste is classified as Hazardous Waste as defined in the Waste Management Act, 1996, as amended, this should be made clear in the information provided.

Supporting information should be included in an **Attachment numbered N^o C.2.**

C.3 Waste hierarchy

You must describe in an **Attachment numbered N^o C.3** how waste generated by the installation will be in order of priority in accordance with section 21A of the Waste

Management Acts 1996 as amended, prepared for re-use, recycling, recovery or where that is not technically or economically possible, disposed of in a manner which will prevent or minimise any impact on the environment.

Section 29(2A) of the Waste Management Acts 1996 to 2013 states that it shall be the duty of waste producers and holders to ensure that waste undergoes recovery operations in accordance with sections 21A and 32(1) of the Acts.

For waste whose generation cannot be prevented, describe what measures will be in place to ensure that waste is collected separately (if technically, environmentally and economically practicable) and will not be mixed with other waste or other material with different properties.

For any waste currently being sent for recovery by incineration (waste-to-energy), provide evidence that it is not technically or economically possible for this waste to be prepared for reuse or recycled.

For any waste currently being sent for disposal by incineration or landfill, provide evidence that it is not technically or economically possible for this waste to be prepared for reuse, recycled or recovered.

SECTION D: EXISTING ENVIRONMENT & IMPACT OF THE ACTIVITY

D.1 Impact of emissions

State whether there has been any change in environmental quality in the area of the installation since the installation was granted a licence or revised licence (Section 90(6) of the EPA Act 1992 as amended).

Yes No

If yes, identify and describe these changes and upload air dispersion model/surface water impact assessment as an **Attachment numbered N° D.1.1** via the EDEN portal where there has been a change in environmental quality.

If no, provide justification.

State whether there has been any change in environmental quality objectives and standards for surface water⁸ and air⁹ as they relate to the emissions from the installation since the installation was last granted a licence or revised licence.

Yes No

If yes, identify and describe these changes in an **Attachment numbered N° D.1.2 and upload via Eden**. In addition, provide an assessment of the effects of any emissions from the installation on the environment of the area as an additional document. Any additional document should be uploaded as an attachment via EDEN portal.

⁸ European Communities Environmental Objectives (Surface Waters) Regulations, 2009 (S.I. No. 272 of 2009), as amended by S.I. No. 327/2012, 386 of 2015 and 77 of 2019.

⁹ Air Quality Standards Regulations 2011 (S.I. No. 180 of 2011), as amended.

State whether the installation has an emission to sewer:

Yes No

If yes, provide in an **Attachment numbered N°. D.1.3** information that will allow the Agency to be satisfied with the requirements of Section 86A(8)(a) and (b) of the EPA Act 1992 as amended:

Section 86A(8)

The Agency, in considering an application for a licence or a revised licence, may, where appropriate, take into account the effect of a waste water treatment plant when determining the emission limit values to apply in relation to indirect releases of polluting substances into water from an installation, but the Agency shall not grant a licence or revised licence on that basis unless it is satisfied that –

- (a) the licence or revised licence, or any conditions attached thereto, shall secure that an equivalent level of protection of the environment as a whole is guaranteed, and*
- (b) so granting will not lead to higher levels of pollution in the environment.*

D.2 Baseline report

State whether the licensed activity involves the use, production or release of relevant hazardous substances¹⁰:

Yes No

If yes, provide an assessment as to whether a baseline report, in accordance with the requirements of section 86B of the EPA Act 1992 as amended, is required. The assessment should be carried out in accordance with the European Commission guidance referenced below. If it is determined that a baseline report is required, provide a baseline report. The assessment and the baseline report should be submitted as an attachment via EDEN portal.

European Commission Guidance concerning baseline reports under Article 22(2) of Directive 2010/75/EU on industrial emissions is available here.

[http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52014XC0506\(01\)&from=EN](http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52014XC0506(01)&from=EN)

¹⁰ Relevant hazardous substances are those substances or mixtures defined within Article 3 of Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures which, as a result of their hazardousness, mobility, persistence and biodegradability (as well as other characteristics), are capable of contaminating soil or groundwater.

SECTION E: DECLARATION

Declaration

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

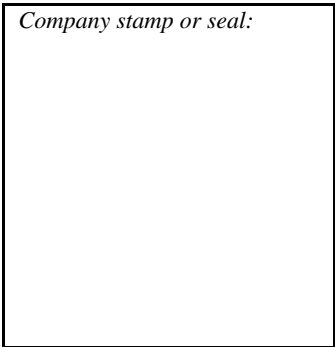
I give consent to the EPA to copy this Review Form for its own use and to make it available for inspection and copying by the public, both in the form of paper files available for inspection at EPA and local authority offices, and via the EPA's website. This consent relates to this review Form itself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

Signed by: _____ **Date:** _____
(on behalf of the organisation)

Print signature name: _____

Position in organisation: _____

Company stamp or seal:



ANNEX 1: TABLE

TABLE B.1(i): EMISSIONS TO SURFACE WATERS/AIR (including odour and noise)
 – Comparison with BAT (1 table per emission type (surface water, sewer and air))
Emissions to Surface Water

This part of the application form collects data on waste water emissions to surface water.

Please note that the emission limit values and monitoring requirements specified in a licence, if granted, shall be based on the information supplied hereunder.
 (Details of discharges to **storm water** are **NOT** to be entered here (Discharges to Storm Water).

Waste Water to Surface Water - Emission Point Details - one row per emission point
 (Details for discharges to **storm water** are **NOT** to be entered here)

Emission Point Code ¹¹	What is the Emission Source?	Easting ¹² (6 digit)	Northing ¹³ (6 digit)	Typical Days Usage/Year	Measures to reduce /minimise / prevent emissions (list techniques) <i>Where EQS considerations require measures stricter than BAT, highlight these measures in bold</i>	Type of Receiving Water/Air ¹⁴	Receiving Water Code <i>(or name where no code is available)</i>

Emission point reference number (emissions to surface water): _____

¹¹ The following convention should be observed when labelling emission points to surface water:

SW1, SW2, etc.

¹² Six Digit GPS Irish National Grid Reference

¹³ Six Digit GPS Irish National Grid Reference

¹⁴ Type of Receiving Water options: 'River', 'Ditch', 'Estuary', 'Lake', 'Land Drain' or 'Other' (where 'Other' is selected please enter a description)

Emission Details:

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

Parameter	As discharged ⁽¹⁾ ⁽²⁾ ⁽³⁾			Proposed ELVs		
	Max. daily average (mg/l Water) or(ug/Nm ³ Air)	kg/day	kg/year	Max Daily (mg/l)	Kg/day	Yearly average (BAT-AEL)

1. Average concentrations and mass flows shall be based on the arithmetic mean of monitoring results from the preceding twelve months taken under normal operating conditions. The maximum concentration and mass flow shall be based on the monitoring results from the preceding twelve months taken under normal operating conditions.
2. For each parameter identify the frequency of monitoring and the number of monitoring results used to establish the average and maximum results.
3. Provide evidence, summarised in a graph, how the proceeding three years of emissions data confirms compliance with the new yearly average BAT-AEL.

Emissions to Sewer Attachment

The information contained in this attachment will be forwarded to the relevant Water Services Authority in which the sewer is vested or by which the sewer is controlled, under Section 99E of the EPA Act 1992 as amended or Section 52 of the Waste Management Act 1996 as amended. Please ensure that you have provided all the information in this attachment that the Water Services Authority require for deciding whether to authorise your discharge to sewer.

Waste Water to Sewer - Emission Point Details - one row per emission point

Complete the table below for each emission point to sewer *

Emission Point Code ¹⁵	What is the Emission Source?	Emission Point Grid Ref.		Volume to be emitted		Period of emission (average)		Measures to reduce/minimise /prevent emissions (list techniques)
		Easting ¹⁶	Northing ¹⁷	Max. rate/ hour (m ³)	Max./day (m ³)	days/year	hr/day	

¹⁵ The following convention should be observed when labelling sewer emission points:

SE1, SE2, ..., etc.,

¹⁶ Six Digit GPS Irish National Grid Reference

¹⁷ Six Digit GPS Irish National Grid Reference

Waste Water to Sewer - Emission Monitoring Points

Complete the table below with an individual record (i.e., row) for each monitoring/sampling point. A National Grid Reference (12 digit, 6E, 6N) must be entered for each monitoring/sampling point. *

Emission Point Code	Monitoring/Sampling Point Code	Monitoring/Sampling Point Grid Ref.	
		Easting	Northing

Waste Water to Sewer- Emissions

Complete the table below for each emission point – add a new row for each parameter * (See [Note i](#) at the end of this attachment for further information)

Emission Point Code	Parameter	Monitoring Point Code	Proposed Emission Limits			Monitoring / Sampling		
			Max. Hourly (mg/l)	Max. Daily (kg/day)	Annual (kg/year)	Proposed Monitoring Frequency	Sample Method	Analysis Method and Technique

Storm Water Discharge Points

Storm water is rain water run-off from roof and non-process areas

Complete the table below for all storm water discharge points – (one row per discharge point).

Note: This section is **NOT** for rain water run-off from areas used for the outdoor storage of waste **OR** run-off from process areas likely to be contaminated.
 (Process effluent discharges and emissions should be described in the **7.2 Emissions to Water** tab of the application form).

Discharge Point Code	Easting *	Northing *	Discharges to? (enter relevant option) *	Description of Discharge Point and Controls *	Name of receiving water (where applicable) *	Receiving Water Code (where applicable) *

*add rows to the table as necessary

Storm Water Discharge Monitoring Points

Enter the Discharge Point Code, the associated Monitoring Point Code and the grid reference details for each Monitoring Point location.

Discharge Point Code*	Monitoring Point Code*	Easting *	Northing *

*add rows to the table as necessary

Storm Water Trigger Levels and Monitoring

Complete the table below with details of the trigger levels and proposed monitoring regime for each parameter.

Select parameters that are a good indicator of loss of containment on-site. Consult the EPA guidance in the setting of trigger values for storm water discharges to off-site surface wastes at EPA licensed facilities (2012).

(If different parameters or monitoring arrangements apply at different storm water discharge points include information on this within the table).

Parameter*	Trigger Level *	How was the trigger level determined? *	Proposed Monitoring Frequency *	Sampling / Monitoring Sample Method *	Analysis Method and Technique *

*add rows to the table as necessary

EMISSIONS TO ATMOSPHERE

Emissions to air/atmosphere include the following:

Main Emissions

Main emissions include all emissions of environmental significance. Where a **mass emission threshold** is specified in a BAT document (BAT Conclusions, National BAT note or BREF), emissions which exceed this threshold prior to abatement are regarded as significant, i.e., 'main emissions'. (In some cases emissions below the threshold can still be significant and qualify as Main Emissions).

Minor Emissions

Emissions below the mass emission threshold may be considered minor emissions and therefore do not generally need to be specifically controlled by the conditions or schedules of the licence (i.e., setting of ELVs, abatement control measures, or monitoring requirements). Emissions may also be deemed minor by virtue of their source/nature (e.g., laboratory fume hoods, workspace extractions, passive vents from storage tanks, HVAC exhausts), or composition (e.g., water vapour emissions).

For combustion plant such as boilers, these can be considered minor where the rated thermal input is < 1MW where natural gas is the main fuel, and for liquid and solid fuels where its < 250kW.

In completing the separate '*Emissions to Atmosphere - Minor and Potential*' attachment for minor emissions, the applicant should supply sufficient information to justify the determination of the emission as minor. Notwithstanding this guidance, the Agency may consider any emission to be significant (i.e., a main emission) on the basis of environmental impact.

Fugitive Emissions

Fugitive emissions include emissions from non-point sources and diffuse sources.

Potential Emissions

These are emissions which only operate under abnormal process conditions. Typical examples include bursting discs, pressure relief valves, and emergency generators. Bypasses and flares may also fall within this category, depending on how they are operated or designed to operate. Although the Agency does not normally set controls in licences for potential emissions, it may do so for the purposes of environmental protection.

This attachment collects information on main and fugitive emissions to atmosphere. Waste gas means the final gaseous emission from a stack or abatement equipment.

Main Emissions to Atmosphere - Waste Gas Emission Point Details - one row per emission point *

Complete the following table with summary details for all main emission points to atmosphere.

(Guidance on completing the table is included in **Note 1** at the end of this attachment)

The applicant should address in particular any emissions which may contain the principal polluting substances listed in the First Schedule of Environmental Protection Agency (Integrated Pollution Control) (Licensing) Regulations 2013/ (Industrial Emissions)(Licensing) Regulations 2013.

Please note that the determination of any emission limit values and monitoring requirements in a proposed licence if granted will be based on the information supplied hereunder.

Emission Point Code	Emission Point Grid Ref.		Typical Days Usage/ Year	Measures to reduce /minimise / prevent emissions (list techniques) <i>Where EQS considerations require measures stricter than BAT, highlight these measures in bold</i>	Source of Waste Gases	Minimum Discharge Height Above Ground (m)	Reference Conditions			
	Easting ¹	Northing ²					Pressure ₃	Temp. ₄	% Oxygen ₅	Moisture ₆

¹ Six Digit GPS Irish National Grid Reference.

² Six Digit GPS Irish National Grid Reference.

³ Options: 101.325kPa or No correction.

⁴ Options: 273.15K or No correction.

⁵ Options: 3%, 6%, 10%, 11%, 15%, 18% or No correction.

⁶ Options: Wet or Dry.

Emission Points from Combustion, Incineration or Co-incineration Sources Only

Complete the table below for each emission point to atmosphere from a combustion source, waste incineration or co-incineration plant

Emission Point Code	Primary Fuel Type ⁷ (where applicable)	Secondary Fuel Type ⁸ (where applicable)	LCP Plant Reference (where applicable)	Waste incineration or co-incineration plant reference (where applicable)

*add rows to the table as necessary

⁷ **Options:** Coal, Lignite, Heavy Fuel Oil, Other Fuel Oil, Peat, Natural Gas, Biogas, Solid Biomass, Waste, Gas Oil, Other or None

⁸ **Options:** Coal, Lignite, Heavy Fuel Oil, Other Fuel Oil, Peat, Natural Gas, Biogas, Solid Biomass, Waste, Gas Oil, Other or None

Waste Gas Emission Monitoring Points

Complete the table below for each emission point, by entering the Emission Point Code, the associated Monitoring Point Code and the grid reference of the Monitoring Point. *

Emission Point Code	Monitoring Point Code	Monitoring Point Grid Reference	
		Easting	Northing

*add rows to the table as necessary

Emission Points with Solvent Emissions Only

Complete the table below for each emission point associated with a solvent activity

Emission Point Code	Are specific Hazardous Substances ⁹ Emitted?	Mass Flow of Emitted Hazardous Substances (g/hour)	Halogenated VOCs ¹⁰ Emitted?	Mass Flow of Emitted Halogenated VOCs (g/hour)

*add rows to the table as necessary

⁹ Emissions of volatile organic compounds referred to in Article 58 (Substances or mixtures which, because of their content of volatile organic compounds classified as carcinogens, mutagens, or toxic to reproduction under Regulation (EC) No. 1272/2008, are assigned or need to carry the hazard statements H340, H350,H350i, H360D or H360F) of the Industrial Emissions Directive.

¹⁰ Halogenated volatile organic compounds which are assigned or need to carry the hazard statements H341 or H351.

Waste Gas - Abatement /Treatment Control

Complete the table below for each emission point with an abatement/treatment system (one table per emission point)

Emission Point Code: _____

Control ¹¹ parameter	Monitoring to be carried out ¹²	Additional notes (where relevant)

*add rows to the table as necessary

¹¹ List the operating parameters of the treatment/abatement system which control its function.

¹² List the monitoring of the control parameter to be carried out.

Fugitive Emission to Atmosphere

Fugitive emissions must be controlled by way of appropriate controls and techniques to minimise emissions.

(Additional information on fugitive emission is included in **Note i** at the end of this attachment)

Are there any sources of fugitive emissions at the installation/facility?¹ (Yes/No) *

If 'Yes' provide summary details of the fugitive emissions in the table below:

Type of Fugitive Emission	Emission Type Applicable? (Yes/No)	Description of fugitive emissions source(s)	Maximum Level	Units	Descriptor/Location
Dust ²⁰				mg/m ² /day	Dust deposition
VOC ²¹				%	of solvent input
Ammonia				ug/m ³	at the nearest European Site
Nitrogen				kgN/ha/yr	at the nearest European Site
Odour				Odour Units	at boundary of installation

Note i Complete the table for each emission point having regard to the guidance hereunder.

The following convention should be observed when labelling emission points:

Boiler Emissions A1-1, A1-2, A1-3,...etc.

Main Emissions A2-1, A2-2, A2-3,...etc.

Minor Emissions A3-1, A3-2, A3-3,...etc. (NOTE: Minor emission points are to be included in the 'Emissions to Atmosphere - Minor and Potential' attachment)

Potential Emissions A4-1, A4-2, A4-3,...etc. (NOTE: Potential emission points are to be included in the 'Emissions to Atmosphere - Minor and Potential' attachment)

A National Grid Reference (12 digit, 6E, 6N) must be provided for each emission point.

Measures are usually required to reduce, minimise or prevent emissions from occurring. They may involve the application of a single technique or a combination of techniques including process integrated, recovery, abatement and treatment techniques. List all techniques proposed/employed. Technique(s) employed must comply with BAT. Highlight additional measures required for the purposes of protecting the environment i.e. AQS considerations. The measures or techniques to be taken must be capable of complying with the proposed/known emission level(s).

The measures required shall be informed by the following:

1. BAT techniques with BAT-AEL
2. BAT techniques without BAT-AEL
3. Stricter measures/techniques than BAT (due to AQS)
4. BAT determined by competent authority in consultation with the applicant
5. Measures to minimise pollution over long distances or in the territory of other states.
6. Emerging techniques
7. Less strict measures than BAT (due to derogation)
8. Other measures

Select from the drop down list the source of the emission as it helps explain the nature of the emission.

Particular attention should be paid to ensuring that emissions data (volumetric flow and pollutant concentrations) are presented at the required reference conditions for oxygen, temperature, pressure and moisture.

Note ii Fugitive emissions include the following:

- Dust from area sources such as a quarry.
- Odour from volume sources such as a pig unit, waste water treatment plant, waste handling etc.
- VOCs from processes using solvent not captured in waste gases.
- Ammonia and nitrogen from pig and poultry units.

Processes that can give rise to fugitive emissions include:

- o Leaks from valve seals, pump seals and flanges;
- o Breathing and working losses from liquid storage facilities;
- o Dust emissions from solids stored in the open;
- o Loading and unloading operations;
- o Cleaning operations; and,
- o Emissions from waste water treatment (e.g. volatile organics).

The measures taken to reduce/ prevent fugitive emissions to atmosphere must be addressed, and the facilities and operations required to control emissions must be detailed.

TABLE C.1(i): Generation of waste at the installation and its management

Waste Generated (See **Note i** at the end of this section)

Attach evidence that demonstrates, in accordance with Articles 11(3) and 12(1)(h) of the Industrial Emissions Directive (for IE licence applications) and Article 4(1) of the Waste Framework Directive (for all applications), how the waste hierarchy (see **Note ii** at the end of this section) has been taken into account in the prevention and management of waste generated at the installation/facility (select Document Type: '**Waste Hierarchy**').

Waste Hierarchy evidence filename: *

Complete the table below in relation to waste generated at the installation or facility

Describe, by completing the table below, the arrangements for the recovery or disposal of solid and liquid wastes generated. Use one row (at least) for each waste generated (the following are examples: e.g., production waste, office waste, canteen waste, vehicle servicing waste, workshop waste, landfill leachate, liquid waste, yard sweepings, ash). Where appropriate, attach analysis of the waste (include test methods and Q.C.) and period or periods of generation of the waste.

Note: This table is for waste generated as a result of the licensable and associated activities.

This table **is not** for waste accepted at the installation or facility (these details are required to be included elsewhere (in the Waste Activities Tab (4.3)).

List of Waste (LoW) Code entry *	Applicant's description of waste generated at the facility or installation *	Estimate or, for a licence review, actual tonnes generated per annum *	Is the waste recovered or disposed on-site or is it dispatched off-site to a waste facility?	Describe the disposal or recovery treatment technique *	Disposal / Recovery Code *

*add rows to the table as necessary

Note i **Waste Generated**

This part of the form collects data and information on the management of waste generated at the facility or installation. (Do not repeat information already provided in Tab 4 on Waste Activities, where applicable).

Waste must be managed without endangering human health and harming the environment, and in particular without risk to water, air, soil, plants or animals, without causing a nuisance through noise or odours, and without adversely affecting the countryside or places of special interest.

Measures must be taken to ensure that waste generation is avoided in accordance with the waste hierarchy in Council Directive 98/2008/EC on waste and section 21A of the Waste Management Act 1996, as amended. Where waste is generated, it must be prepared for re-use, recycled or recovered or, where that is technically and economically impossible, it can be disposed of while avoiding or reducing any impact on the environment (applicants should provide this information in the context of the Waste Management Act 1996 as amended).

Note ii **Waste Hierarchy**

Describe what measures will be taken to prevent the generation of waste to the extent possible. State whether the operator of the installation or facility has participated in any projects under the National Waste Prevention Programme.

Where waste is generated at the installation or facility, describe how it will be, in order of priority in accordance with section 21A of the Waste Management Act 1996, as amended, prepared for re-use, recycling, recovery or where that is not technically or economically possible, disposed of in a manner which will prevent or minimise any impact on the environment.

Section 29(2A) of the Waste Management Act 1996, as amended states that it shall be the duty of waste producers and holders to ensure that waste undergoes recovery operations in accordance with sections 21A and 32(1) of the Acts.

For waste whose generation cannot be prevented, describe what measures will be in place to ensure that waste is collected separately (if technically, environmentally and economically practicable) and will not be mixed with other waste or other material with different properties.