

Annual Environmental Report (AER)

Insert Year

|  |
| --- |
| Company Name:  Licence Number:  Address:  Class of Activity[[1]](#footnote-1): |

Purpose of this Report

One of the functions of the Environmental Protection Agency (EPA) is to licence and regulate the activities[[2]](#footnote-2) of large scale industrial (e.g. chemical, food processors, power plants) and waste facilities. Submitting an Annual Environmental Report (AER) is a requirement of all EPA licences.

An AER is a public document. To this end, this format has been developed for industrial and waste licence holders (other than the intensive agriculture sector) to use as a template. This is to assist any member of the public to interpret and understand the environmental performance of the licensed facility.

The AER is a **summary** of environmental information for a given year. It includes:

* Details of the licence holder’s environmental goals achieved, goals to maintain compliance and/or improve their environmental performance;
* Answers to questions regarding their facility’s activities;
* Tables of results from monitoring emissions such as air, water, noise, and odour; and
* Details of waste generated, accepted and treated.

An AER does **not** provide detailed technical data. Such information is available in three ways:

1. Contacting the licence holder directly. The Contact Us section of this template enables the licence holder to provide details of where a member of the public can obtain further information on topics reported in this document.
2. Some documents[[3]](#footnote-3) are available on the EPA website via the licence details page for each individual licence. This can be found by browsing either the <http://www.epa.ie/licensing/> or <http://www.epa.ie/enforcement/> pages of the EPA website.
3. All formal enforcement correspondence exchanged between the EPA and a licence holder during the regulatory process is available for public viewing by appointment at any EPA Office.

If you have a question or query about an AER or an individual EPA licensed facility see the EPA’s website or contact the relevant EPA office. See <http://www.epa.ie/about/contactus/> for contact details.

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Glossary

|  |  |
| --- | --- |
| Abatement Equipment | Technology used to reduce pollution |
| AER | Annual Environmental Report. |
| Beyond Compliance | Beyond compliance is concept to help deliver greater organisational performance and long-term value for the environment, society and the economy. |
| CRAMP | Closure, Restoration and Aftercare Management Plan. |
| ELRA | Environmental Liability Risk Assessment. |
| Emission Limit Value | Limits set for specified emissions, typically outlined in Schedule B of an EPA licence. |
| EMS | Environmental Management System. |
| Environmental Goal | An objective or target set by a licensee as part of an environmental management system (EMS). |
| Environmental Pollutant | Substance or material that due to its quantity and/or nature has a negative impact on the environment. |
| Facility | Any site or premises that holds an EPA industrial or waste licence. |
| FP | Financial Provision. |
| GJ | Giga joules, an international unit of energy measurement. |
| Groundwater | All water which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil. |
| Incident | As defined by an EPA industrial or waste licence. |
| Inert Waste | Is waste that will not undergo physical, chemical or biological change thereby, is unlikely to cause environmental pollution or harm human health. |
| List of Wastes (LoW) | A list of wastes drawn up by the European Commission and published as Commission Decision 2014/955/EU. |
| Noise Sensitive Location | Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other installation or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels. |
| Non-Renewable Resource | A resource of economic value that cannot be replaced at the same rate it is being consumed e.g. coal, peat, oil and natural gas. |
| Oil Separator | Separator system for light liquids (e.g. oil and petrol). |
| PRTR | Pollutant Release and Transfer Register. |
| Renewable Resource | Wind, solar, aerothermal, geothermal, hydrothermal and ocean energy, hydropower, biomass, landfill gas, sewage treatment plant gas and biogases. |
| Sanitary Waste | Waste water from toilet, washroom and canteen facilities. |
| Storm Water | Rain water run-off from roof and non-process areas. |
| Surface Water | Lakes, rivers, streams, estuaries and coastal waters. |
| Trigger Level | A value set for a specific parameter, the achievement or exceedance of which requires certain actions to be taken by the licence holder. |
| Volatile Organic Compounds | Gases produced from solids or liquids that evaporate readily in ambient conditions. |
| Waste | Any substance or object which the holder discards or intends or is required to discard. |

Disclaimer

These are **not** legal definitions. Legal definitions can be found in the corresponding legislation.

Declaration

I, ­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­Name and position, confirm that by ticking the box below, all information in this report is truthful and accurate to the best of my knowledge and belief.

In addition, I confirm that all monitoring and performance reporting required by our EPA licence and summarised herein is available for inspection by the EPA.

|  |  |
| --- | --- |
| **Tick here** |  |

# Introduction

See below a brief description of our facility and a summary of our environmental performance this year.

|  |
| --- |
| 250 word limit |

## Contact Us

If you have any questions or would like further information on any aspect of our licensed activity, please contact us directly.

See below details:

|  |
| --- |
|  |

# How we Manage our Facility

## Environmental Management System

|  |
| --- |
| **Explanation**  To ensure our facility’s activities do not cause environmental pollution we are required to have detailed documentation systems in place to help us manage and track our environmental performance. These systems are referred to as Environmental Management Systems (EMS). We review our EMS every year and set up-to-date **environmental goals** to continually improve our environmental performance. |

The information below sets out the environmental goals for our facility to help us prevent environmental pollution and reduce our impact on the environment. Target dates for completing each goal and progress towards achieving the goal are outlined in Table 1.

**Table 1 Environmental Goals**

|  |  |  |
| --- | --- | --- |
| Environmental Goal | Target Date | Progress |
|  |  |  |
|  |  |  |

Add rows as necessary

Comment

|  |
| --- |
| 100 word limit |

## Beyond Compliance

|  |
| --- |
| **Explanation**  We are legally required to comply with our environmental licence. However, the EPA realise that some sites go further than just complying with their environmental licence requirements. Some projects carried out at facilities can have long term positive impacts on the environment and local communities.  The EPA’s beyond compliance initiative is encouraging us to identify and report on these environmental and sustainability projects. For example, the project could involve renewable energy, biodiversity, water conservation or exemplar community engagement. |

**Did any project completed on your site in the reporting year go beyond your licence requirements?**

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |

If yes, provide details of one case study in Appendix III that demonstrates how the project went beyond compliance of your licence.

# Energy & Water

## Energy

|  |
| --- |
| **Explanation**  Fossil fuels such as coal, gas and oil are non-renewable resources. As a result, our EPA licence requires that we measure our energy use and set targets to improve the energy efficiency of our activities and reduce our overall use, where possible. Where we have the means and technology on-site to generate energy, this is also captured in this report. |

The information below summarises the energy used this year compared to the previous year and includes renewable and non-renewable energy types.

**Table 3 Energy Used**

|  |  |  |
| --- | --- | --- |
| Energy Used | Quantity (GJ) | % Increase/ decrease on previous year |
| Electricity |  |  |
| Heavy Fuel Oil |  |  |
| Light Fuel Oil |  |  |
| Natural Gas |  |  |
| Coal / Solid Fuel |  |  |
| Peat |  |  |
| Renewable Biomass |  |  |
| Renewable Energy Generated On-site |  |  |
| Total Energy Used |  |  |

Comment

|  |
| --- |
| 100 word limit |

The information below summarises the energy we generated on our site this year with specific focus on renewable energy generation.

**Table 4 Energy Generated**

|  |  |  |
| --- | --- | --- |
| Energy Generated | Quantity (GJ) | % Increase/ decrease on previous year |
| Renewable Energy |  |  |
| Total Energy Generated |  |  |

Comment

|  |
| --- |
| 100 word limit |

## Water

|  |
| --- |
| **Explanation**  Water is a natural resource and we are required by our EPA licence to identify ways to reduce our use where possible. Water used in industry can be extracted from groundwater, rivers and lakes (surface water), taken from public water supplies (Irish Water), recycled from the facility’s processes or harvested from rainwater. |

The information below summarises and compares the quantity of water used this year compared to the previous year.

**Table 5 Water Used**

|  |  |  |
| --- | --- | --- |
| Source of Water Used | Quantity (m3/year) | % Increase/ decrease on previous year |
| Groundwater |  |  |
| Surface Water |  |  |
| Public Supply |  |  |
| Recycled Water |  |  |
| Rainwater |  |  |
| Total Water Used |  |  |

Comment

|  |
| --- |
| 100 word limit |

# Environmental Complaints

|  |
| --- |
| **Explanation**  Our EPA licence requires that activities do not cause environmental nuisance such as odour, dust or noise. Our licence also requires that we have procedures in place to record, investigate and respond to environmental complaints if or when they arise.  We have an environmental complaints procedure in place where you can contact us[[4]](#footnote-4) directly. You can also contact the EPA[[5]](#footnote-5) if you wish to make an environmental complaint, confidentially or not. |

See the information below for a summary of **all** the environmental complaints relating to our activities made directly to us and to the EPA this year.

**Table 6 Summary of All Environmental Complaints Received in**

|  |  |  |
| --- | --- | --- |
| Type of Complaint | Number of Complaints | Number Closed |
| Odour / Smells |  |  |
| Noise |  |  |
| Dust |  |  |
| Water Quality |  |  |
| Air Quality |  |  |
| Waste |  |  |
| Litter |  |  |
| Vermin/Flies/Birds |  |  |
| Soil Contamination |  |  |
| Vibration |  |  |
| Other |  |  |

Comment

|  |
| --- |
| 100 word limit |

# Environmental Incidents

|  |
| --- |
| **Explanation**  It is our responsibility as an EPA licensed facility to ensure we have systems in place to prevent incidents that have the potential to cause environmental pollution. If an incident occurs, we are required to report it to the EPA, investigate the cause and fix the problem.  The EPA classify environmental incidents into 5 categories based on the potential impact on the environment:   * Minor * Limited * Serious * Very Serious * Catastrophic |

See Table 6 for the number of the environmental incidents we reported to the EPA this year.

**Table 7 Number of Environmental Incidents**

| **Incident Category** | **Minor** | **Limited** | **Serious** | **Very Serious** | **Catastrophic** |
| --- | --- | --- | --- | --- | --- |
| Abatement Equipment Offline |  |  |  |  |  |
| Breach of Ambient ELV |  |  |  |  |  |
| Breach of Emission Limit |  |  |  |  |  |
| Explosion |  |  |  |  |  |
| Fire |  |  |  |  |  |
| Monitoring Equipment Failure |  |  |  |  |  |
| Odour |  |  |  |  |  |
| Spillage |  |  |  |  |  |
| Breach of trigger Level |  |  |  |  |  |
| Uncontrolled Release |  |  |  |  |  |
| Other |  |  |  |  |  |

Comment

|  |
| --- |
| 100 word limit |

# Our Environmental Emissions

|  |
| --- |
| **Explanation**  We are required to ensure the emissions from our activities do not cause environmental pollution.  We are required to monitor any of the following emissions that we make:   * Storm water * Waste water * Air * Groundwater * Noise   We regularly test any such emissions for specific pollutants and materials to ensure they do not contain levels of pollution that exceed emission limit values (ELVs) or cause environmental pollution. If monitoring of an emission indicates an ELV is exceeded, we are required to report this to the EPA[[6]](#footnote-6). |

The next sub-sections of this report summarise our compliance with any ELVs set in our EPA licence. Some emissions monitored do not have specific ELVs, but we still carry out monitoring and report all incidents that may give rise to environmental pollution.

## Storm Water

|  |
| --- |
| **Explanation**  Storm water is rain water run-off from roof and non-process areas of a facility, e.g. carparks, and generally shall not contain any pollution.  Storm water is usually released into a local water body after a basic form of treatment. Our EPA licence requires that we manage storm water to ensure no polluting substances or materials are released into the environment. |

The information below summarises how the storm water from our facility is treated, where it is released and the results of monitoring this year.

1. **Storm water from our facility is managed prior to release by;**

|  |
| --- |
|  |

1. **Storm water from our facility is released into the following water bodies:**

|  |
| --- |
|  |

**Table 8** **Summary of Storm Water Monitoring**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter measured | No. of Samples | % Compliant[[7]](#footnote-7) | Comment |
|  |  |  |  |
|  |  |  |  |

Add rows as necessary

Comment

|  |
| --- |
| 100 word limit |

## Waste Water

|  |
| --- |
| **Explanation**  There are two types of waste water that can be produced:   * Process waste water produced from the activities and; * Sanitary waste water from toilets, washrooms and canteens.   Our EPA licence requires us to manage our waste water on or off-site and ensure that it does not cause environmental pollution when discharged into the environment. |

The information below summarises how we treat the waste water produced from our activities, where it is released and the results of monitoring this year.

1. **Waste water produced by our activities is treated as follows before discharge to a receiving waterbody**;

|  |
| --- |
|  |

1. **Treated waste water from our facility is released into the following water bodies:**

|  |
| --- |
|  |

**Table 9 Summary of Waste Water Monitoring**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter measured | No. of Samples | % Compliant | Comment |
|  |  |  |  |
|  |  |  |  |

Add rows as necessary

Comment

|  |
| --- |
| 100 word limit |

## Air

|  |
| --- |
| **Explanation**  Generally, three types of air emissions are monitored from industry in Ireland: gases, dust (particulates) and odour. Our EPA licence requires us to ensure that any air emissions from our activities do not cause air pollution or create an odour nuisance. |

The information below details the number of air emission points we monitor, the results from testing the air emissions and any odour assessments carried out by us and the EPA this year.

1. **We monitor air emissions from the following number of emission points at our facility.**

|  |
| --- |
|  |

**Table 10** **Summary of Air Emissions Monitoring**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter measured | No. of Samples | % Compliant | Comment |
|  |  |  |  |
|  |  |  |  |

Add rows as necessary

Comment

|  |
| --- |
| 100 word limit |

**Table 11** **Summary of Odour Assessments Carried Out**

|  |  |  |  |
| --- | --- | --- | --- |
| Assessment Conducted By | No. of Odour Assessments | % Compliant[[8]](#footnote-8) | Comment |
| Licence Holder |  |  |  |
| EPA |  |  |  |

Add rows where necessary

Comment

|  |
| --- |
| 100 word limit |

## Fugitive Solvent Emissions

**Are you required to monitor fugitive solvent air emissions from your facility?**

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |

|  |
| --- |
| **Explanation**  The use of solvents is regulated under Irish and European Union (EU) Regulations[[9]](#footnote-9). Solvents are chemicals that, by their nature, are volatile (evaporate readily under ambient conditions). Solvents can be found in many inks, glues and cleaning agents. Due to the volatility of solvents some emissions may be released into the atmosphere during our activities before being captured in our air treatment system. This type of emission is called a **fugitive solvent emission**. |

The information below summarises the quantity of solvents used this year, the percentage of fugitive solvent emissions (% of total quantity used) and whether the percentage complied with the targets set in the EU Regulations.

**Table 12** **Summary of Fugitive Solvent Emissions**

|  |  |  |
| --- | --- | --- |
| Quantity of Solvents Used (Kg) | % Fugitive Solvent Emissions | Compliant |
|  |  |  |

Comment

|  |
| --- |
| 100 word limit |

## Groundwater

|  |
| --- |
| **Explanation**  Groundwater is an important and sensitive resource in Ireland. Our EPA licence requires that we monitor groundwater to ensure our activities do not cause groundwater pollution.  Understanding how groundwater flows through soil and rock layers and eventually into surface and coastal waters is a complex science. Sometimes groundwater pollution that occurred in the past can take years and even decades to disappear. Therefore, it is important that experts help us monitor and interpret results from groundwater monitoring and testing. |

The information below is a basic summary of the condition of the groundwater this year.

1. **Do you have a groundwater monitoring programme in place?**

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |

1. **Have the groundwater monitoring results over the last 5 years indicated the presence of groundwater pollution?**

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |

**Table 13 List of Groundwater Pollutants Identified**

|  |
| --- |
| Pollutants |
|  |

Add rows as necessary

1. **Give details of the investigations and subsequent actions taken, where applicable, to manage the groundwater pollution.**

|  |
| --- |
| 150 word limit |

Comment

|  |
| --- |
| 100 word limit |

## Noise

|  |
| --- |
| **Explanation**  Our EPA licence requires that we monitor noise emissions from our facility. Noise monitoring can be conducted at the boundary of our facility and/or at locations beyond the boundary referred to as “noise sensitive locations”. Noise monitoring requires the use of special noise monitoring equipment. Our EPA licence requires that noise produced by our facility shall not exceed the noise limit values and/or give rise to nuisance. |

The information below gives a summary of when and where we conducted noise monitoring this year and if results complied with our EPA licence limits.

1. **We conducted noise monitoring on the following dates this year:**

|  |
| --- |
|  |

1. **Where was the noise monitoring carried out?**
2. **the boundary of our facility;**
3. **noise sensitive locations off-site; or**
4. **both.**

|  |
| --- |
|  |

1. **Were measured noise levels compliant with your EPA licence limits?**

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |

If No, we took the following actions to address the noise level exceedances?

|  |
| --- |
| 150 word limit |

Comment

|  |
| --- |
| 50 word limit |

# Waste

## Waste Generated

|  |
| --- |
| **Explanation**  Our EPA licence requires us to manage the waste we generate in a manner that does not cause environmental pollution.  We manage, store and record hazardous, non-hazardous and inert waste we generate in accordance with our licence. We ensure that this waste is subsequently treated or disposed of in accordance with the relevant waste Regulations. |

The information in Table 14 is a summary of waste we generated this year and the percentage increase or decrease on the previous year. The percentage recovery is the amount of total waste generated that was reused, recycled or recovered.

**Table 14 Waste Generated**

|  |  |  |  |
| --- | --- | --- | --- |
| Type | Quantity (Tonnes) | % Increase/ decrease on previous year | % Recovery |
| Hazardous |  |  |  |
| Non-Hazardous |  |  |  |
| Inert |  |  |  |
| Total Tonnes |  |  |  |

Comment

|  |
| --- |
| 100 word limit |

## Waste Accepted

Did you accept waste onto your facility for storage, treatment, recovery or disposal this year?

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |

|  |
| --- |
| **Explanation**  Our EPA licence requires us to manage the waste we accept in a manner that does not cause environmental pollution.  We manage, store and record all incoming and outgoing hazardous, non-hazardous and inert waste. The waste we accept may be treated, recovered, disposed or stored at our facility depending on our licence requirements. |

The information in Table 15 provides a summary of waste we accepted this year and the percentage increase or decrease on the previous year. The percentage recovery is the amount of total waste accepted that was reused, recycled or recovered.

**Table 15 Waste Accepted**

|  |  |  |  |
| --- | --- | --- | --- |
| Type | Quantity (Tonnes) | % Increase/ decrease on previous year | % Recovery |
| Hazardous |  |  |  |
| Non-Hazardous |  |  |  |
| Inert |  |  |  |
| Total Tonnes |  |  |  |

Comment

|  |
| --- |
| 100 word limit |

# Financial Provision

|  |
| --- |
| **Explanation**  Our EPA licence requires us to assess the risk our activities pose to the environment if we cease our activities or if an incident occurred. If we are identified as a high risk facility[[10]](#footnote-10) by the EPA, we are required to put provision in place such as a financial bond or insurance to cover the cost of restoring our site to a satisfactory condition. This financial provision can then be used to cover the cost of managing the restoration or clean up should such an event occur. |

1. Are you required to have an agreed financial provision in place?

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |

1. What year was your Closure, Restoration and Aftercare Management Plan (CRAMP) last agreed by the Agency?

|  |
| --- |
|  |

1. What year was your Environmental Liability Assessment Report (ELRA) agreed by the Agency?

|  |
| --- |
|  |

1. Has there been any significant changes on your site since the last agreements?

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |

If yes, have you submitted details to the EPA?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Yes |  | No |  | N/A |  |

Appendix I

**Class of Activity**

Industrial and waste facilities are classed into different sectors depending on the nature of their activity and its potential impact on the environment. The EPA Act 1992 as amended, outlines these as follows:

Class 1 Minerals and other materials

Class 2 Energy

Class 3 Metals

Class 4 Mineral fibres and glass

Class 5 Chemicals

Class 6 Intensive Agriculture[[11]](#footnote-11)

Class 7 Food and drink

Class 8 Wood, paper, textiles and leather

Class 9 Fossil fuels

Class 10 Cement, lime and magnesium oxide

Class 11 Waste

Class 12 Surface Coatings

Class 13 Other Activities

Appendix II

**High Environmental Risk Categories**

If an industrial or waste licence falls into one of these categories it is deemed, by the EPA, as a high environmental risk. As a result, the licence holder is required to have financial provision in place. See section 8, Financial Provision.

1. Landfills
2. Non-Hazardous Waste Transfer Station
3. Incineration and Co-Incineration Waste Facilities
4. Category A – Extractive Waste Facilities
5. Upper and Lower Tier Seveso Facilities
6. Hazardous Waste Transfer Stations
7. High Risk Contaminated Land
8. Exceptional Circumstances

**NOTE:**

This list is subject to change.

See the link below for further information.

[Compliance & Enforcement: Financial Provisions Publications | Environmental Protection Agency (epa.ie)](https://www.epa.ie/publications/compliance--enforcement/licensees/reporting/financial-provisions/guidance-on-financial-provision-for-environmental-liabilities.php)

Appendix III

## Beyond Compliance

The case study below shows how we went beyond the requirements of our licence in the reporting year.

250 word limit

1. See Appendix I [↑](#footnote-ref-1)
2. See Appendix I [↑](#footnote-ref-2)
3. This includes EPA site inspection and compliance monitoring reports, licence holders’ self-monitoring reports, AERs and special reports [↑](#footnote-ref-3)
4. See Section 1, Introduction – Contact Us [↑](#footnote-ref-4)
5. If you wish to contact the EPA to make an environmental complaint about an EPA licenced facility, please go to <https://lema.epa.ie/complaints> [↑](#footnote-ref-5)
6. See section 5, Incidents [↑](#footnote-ref-6)
7. % compliant = [(number of samples compliant) / (number of samples taken)] x 100. Compliance could refer to emission limit values or trigger levels. The EPA commonly use trigger levels on stormwater discharges. [↑](#footnote-ref-7)
8. A compliant odour assessment is based on EPA Odour Impact Assessment Guidance available at [Air Enforcement | Environmental Protection Agency (epa.ie)](https://www.epa.ie/our-services/compliance--enforcement/air/air-enforcement/) [↑](#footnote-ref-8)
9. See Annex VII of the Industrial Emissions Directive <https://ec.europa.eu/environment/industry/stationary/ied/legislation.htm> [↑](#footnote-ref-9)
10. See Appendix II [↑](#footnote-ref-10)
11. This reporting template is not applicable to the **intensive agriculture sector**. Their annual environmental reporting structure is different and can be found at [Compliance & Enforcement: Licensees: Reporting Publications | Environmental Protection Agency (epa.ie)](https://www.epa.ie/publications/compliance--enforcement/licensees/reporting/annual-environmental-report-aer-guidance-and-templates.php) [↑](#footnote-ref-11)