

COMHAIRLE CHONTAE AN CABHÁIN

CAVAN COUNTY COUNCIL



Annual Environmental Report 2008

Bailieborough Landfill WL 91-1

Document Control Sheet

| | |
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| | | | |



Cavan County Council

Comhairle Chontae an Chabháin



Courthouse

Teach Na Cúirte

Cavan

An Cabháin

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049 437 8300

Motor Tax
049 437 8430

Planning
049 437 8600

Corporate Services
049 437 8601

Johnston Central Library
049 437 8500

Finance Department
049 437 8300

Roads
049 437 8300

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Community & Enterprise
049 437 8602

Water Services
049 437 8300

Declaration

Cavan County Council hereby certifies that the content of the full pdf AER W0091-012008AER.pdf uploaded to the EPA website is a true copy of the original AER.

Signed Sinead Fox Dated 12/ June '09

Sinead Fox
Landfill Operations Manager
Cavan County Council

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1. Introduction

Bailieborough Landfill has been operated as waste disposal facility by Cavan County Council since the late 1960s. The landfill is located on the outskirts of the town of Bailieborough, (c. 1 km from town centre), in the town land of Tanderagee, which was a commercially exploited bog. The site was operated as a traditional landfill constructed on peat and relies on the properties of the peat bog for attenuation, dilution and dispersal. The total area of the site comprises 2.23 hectares.

A Waste Licence for the facility was issued by the EPA on 22nd February 2002, Ref WL 91-1. Condition 11.6 of Waste Licence Ref. 91-1 requires the submission of an Annual Environmental Report for Bailieborough Landfill facility. This document is produced in order to comply with requirements of Condition 11.6.

The site at Bailieborough was closed in 2001. Prior to closing the site a temporary cap was placed on site. The reporting period for the purposes of this Annual Environmental Report (AER) is January 1st 2008 to December 31st 2008. This Annual Environmental Report (AER) has been prepared in accordance with the conditions of the Waste Licence and the EPA “Draft Guidance on Environmental Management Systems and Reporting to the Agency, 1999”. Final capping and restoration details are presented in section 3.

2. Waste Management at the Facility.

It is estimated that the quantities of waste accepted landfill came to a total of 65,000 tonnes. See the table 2.1a & 2.1b for quantities of waste accepted into the landfill from 1988 to 1999. There was no waste accepted into the facility during the reporting period 2008.

Table 2.1a Waste Quantities

| <u>Year</u> | <u>Inert Waste</u> | <u>Non-Hazardous Waste (tonnes per annum)</u> | <u>Hazardous Waste (tonnes per annum)</u> | <u>Total Waste Quantities (tonnes per annum)</u> |
|-------------|--------------------|---|---|--|
| 1988 | 40 | 960 | Minor Quantities | 1000 |
| 1989 | 41 | 959 | Minor Quantities | 1000 |
| 1990 | 46 | 954 | Minor Quantities | 1000 |
| 1991 | 41 | 959 | Minor Quantities | 1000 |
| 1992 | 70 | 1630 | Minor Quantities | 1700 |
| 1993 | 79 | 1821 | Minor Quantities | 1900 |
| 1994 | 83 | 1917 | Minor Quantities | 2000 |
| 1995 | 84 | 1916 | Minor Quantities | 2000 |
| 1996 | 154 | 3546 | Minor Quantities | 3700 |
| 1997 | 208 | 4792 | Minor Quantities | 5000 |

| | | | | |
|---------------|-------------|--------------|------------------|--------------|
| 1998 | 358 | 8569 | Minor Quantities | 8927 |
| 1999 | 400 | 8600 | Minor Quantities | 9000 |
| Totals | 1604 | 36623 | | 38227 |

Table 2.1b Waste Quantities

| Waste Type | Quantity |
|---|--|
| Inert Waste at the landfill for cover, capping and restoration purposes only. | 80,000 tonnes maximum |
| Segregated Municipal and segregated Commercial wastes at the Bring Centre (collection for recovery only) or at a Civic Waste Facility (collection for recovery and collection for disposal) if installed in accordance with Condition 3 operated in accordance with Condition 5 | A maximum of 5,100 tonnes per annum household waste and 3,550 tonnes per annum commercial waste. |

Under the terms of Waste Licence 91-1 no other waste types are acceptable at Ballyjamesduff Landfill Site. At present there are no wastes accepted for any purpose. There was no waste accepted at this site during the reporting period. There was no activity carried out at this site other than monitoring required by EPA licence.

Waste Licence 93-1 allows for the operation of a Civic Amenity Facility at Bailieborough Landfill Site. To date there are no plans in place to operate such a facility at the site.

3. Restoration of Completed Cells

Cavan County Council appointed consultants Malachy-Cullen to prepare a final restoration plan and detailed tender documents for site works. Final restoration works, including capping of the site within the timeframe specified, were then carried out. Table 3.1 overleaf gives a summary outline of the capping system put into place in Bailieborough Landfill.

Table 3.1 Summary Capping System

| | |
|-----------|--|
| a. | An upper component consisting of 150mm of topsoil on |
| b. | An 850mm layer of subsoil on |
| c. | A geo-composite surface water drainage layer on |
| d. | An LLDPE liner on |
| e. | A geo-composite gas collection layer on |
| f. | 250mm regulation layer (where necessary) |
| g. | Re-graded landfill surface or filled waste |
| a. | An upper component consisting of 150mm of topsoil on |
| b. | An 850mm layer of subsoil on |
| c. | A geo-composite surface water drainage layer on |
| d. | An LLDPE liner on |
| e. | A geo-composite gas collection layer on |
| f. | 250mm regulation layer (where necessary) |
| g. | Re-graded landfill surface or filled waste |

Further details of lining works were submitted to the _____ in the latest Waste Licence Application. The capping lining system was constructed to a very high standard and within all contractual and EPA guidelines.

4. Summary Report on Emissions and Environmental Monitoring

The required monitoring programme at Bailieborough Landfill is specified in Schedule D of the waste licence 91-1. The emission limit values (ELV) are specified in Schedule C. Monitoring is carried out by BHP Laboratories on behalf of Cavan County Council. The frequency for reporting Environmental monitoring data is detailed in Schedule E of the licence. The following monitoring data was reported to the Agency on a quarterly basis:

- Landfill Gas
- Surface water
- Groundwater

Field sampling is carried out by Cavan County Council _____ analysis relating to Groundwater and Surface waters is also conducted by the EPA in County Monaghan. Please see Appendix 1 for

Annual report of Ground water and Surface water monitoring results. In addition to this the Annual Pollution Release Transfer Register (PRTR) workbook is submitted to the EPA as part of the AER. See copy of the workbook in Appendix 3.

Table 4.1 Overall Site Monitoring Locations

| Bailieborough Landfill | | | | |
|--|---------------------------------------|----------------------|--|-----------------|
| Schedule D: Monitoring | | | | |
| Tandergree, Bailieborough, Co. Cavan Waste Licence No. 91-1 | | | | |
| Landfill Gas | Noise | Surface Water | Groundwater | Leachate |
| Stations | Stations | Stations | Stations | Stations |
| MW7 | n/a | SW1 | MW10S Upstream | MW9 |
| | | SW2 | MW10D Upstream | |
| | | | MW11S to be re-drilled ¹ Downstream | |
| | | | MW11D to be re-drilled ¹ Downstream | |
| | | | MW12S to be re-drilled ¹ Downstream | |
| | | | MW12D to be re-drilled ¹ Downstream | |
| <u>Note 1</u> | Wells to be re-drilled in Spring 2009 | | | |

As is shown above there are 4no. downstream groundwater wells to be drilled in 200 in order to bring us into full compliance with the licence. These wells were lost with road works and other works over time.

Landfill Gas

Schedule D.2 of the waste licence for the Bailieborough landfill site, specifies the required gas monitoring programme. Table 4.1 indicates the monitoring locations and table 4.2 specifies the overall site monitoring frequency. See Appendix 2 for Updated Site Map.

Table 4.2 Gas Monitoring Frequency

| <u>Parameter</u> | <u>Frequency</u> |
|---|-------------------------|
| Methane (CH₄) %v/v | Quarterly |
| Carbon Dioxide (CO₂) %v/v | Quarterly |
| Oxygen (O₂) % v/v | Quarterly |
| Atmospheric Pressure | Quarterly |
| Temperature | Quarterly |

Landfill gas at the facility is analysed on a quarterly basis by BHP Laboratories, New Road, Thomondgate, Limerick by means of an Infra-Red Gas Analyser (GA2000) which is calibrated once annually. There is one gas monitoring point at the facility (MW7). Gas monitoring commenced on site in September 2002 and is ongoing. Since this time, the quantities and constituents of Landfill gas being generated are not having a significant impact on the environment as the ELVs for CH₄ and CO₂ were not exceeded.

The Annual PRTR will be submitted to the Agency as part of this annual report. Gas emissions are being controlled by installing a passive trenching and venting system in the capping layer during final capping works. There is no evidence of any negative impact associated with this closed landfill. This is supported by monitoring results for the reporting period

Noise Monitoring

Noise Monitoring is no longer required at this closed landfill as there are no associated activities that would result in significant noise levels. This is supported by previously recorded noise monitoring reports.

Surface Water

Schedule D.4 of the waste licence, specifies the required surface water monitoring programme. Table 4.3 sets out the monitoring requirements.

Table 4.3 Surface Water Monitoring Requirements

| <u>Parameter</u> | <u>Frequency</u> | <u>Comments</u> |
|---------------------------|-------------------------|---|
| Visual Inspection | Quarterly | |
| Quality Monitoring | Quarterly | Field sampling and Chemical analyses |

The stream flows from north to south along the eastern boundary of the site. It is likely that the bulk of any impact from the landfill is confined to local shallow ground waters and surface waters. The Annual Report covering surface water monitoring is presented in Appendix 1. In summary the landfill is not having a contribution to the discoloration of the waters downstream of the site. There

was little difference from the monitoring results in the quality of the two waters upstream and downstream. The analytical results suggest the water quality both upstream and downstream of the facility is of a good standard, with BOD, Ammonia and Total Suspended Solids remaining consistently below the expected limit values.

Currently there are two surface water monitoring points at the facility labelled SW1 and SW2. Field sampling is carried out once every quarter to determine the quality of surrounding waters. In December 2002, Surface waters SW1 and SW2 were also analysed for dangerous substances.

Groundwater

The Annual Report covering groundwater monitoring is presented in Appendix 1. In summary the groundwater is of a relatively uncontaminated nature. This conclusion is supported from the monitoring results from the reporting period. There are two downstream monitoring boreholes to be installed in Spring 2009.

Table 4.4
Existing Monitoring points & planned Borehole Drilling

| Groundwater | |
|--|----------|
| Stations | |
| MW10S | Existing |
| MW10D | Existing |
| MW11S <small>to be re-drilled ¹</small> | Planned |
| MW11D <small>to be re-drilled ¹</small> | Planned |
| MW12S <small>to be re-drilled ¹</small> | Planned |
| MW12D <small>to be re-drilled ¹</small> | Planned |

As is shown above there are 4no. groundwater wells to be drilled in 2009. These will be included into the monitoring schedule.

During sampling standard portable instrument comprising a probe which emits an audible signal on contact with water is used to determine the ground water levels in the boreholes. As noted earlier water samples are lifted by means of a bailer. Groundwater level and test results are forwarded to the Agency in quarterly reports. Groundwater quality has remained good throughout the year as supported in the monitoring results.

5. Environmental Objectives and Targets.

A total of 9 Targets and Objectives have been identified. These can be grouped into two categories:

- 8no. Licence Related Targets and Objectives
- 1no. Identified Targets and Objectives

These targets and objectives are listed in Tables 5.1 and 5.2 below which also identifies progress to date in relation to these targets.

Table 5.1a Environmental Targets & Objectives – Licence Related

| No. | Ref. | Details | Target Date | Progress |
|------------|-------------|---|--------------------|---------------------|
| 1 | 2.2 | Management Structure | | Included Table 6.1 |
| 2 | 2.4 | Borehole Drilling Plans 2009 | March 2009 | Up-coming |
| 3 | 11.6 | Annual Environmental Report | 31/03/09 | Prepared |
| 4 | 10 & 11 | Record Keeping and Reporting | | Ongoing |
| 5 | 3.9 | Landfill Gas Management | | Ongoing |
| 6 | 3.10 | Surface Water Management | | Ongoing |
| 7 | 8.6 | Topographical Survey | AER 2007 | Included Appendix 4 |
| 8 | 8.7 | Stability Analysis Certification Letter | AER 2012 | To be submitted |

Table 5.1b Environmental Targets & Objectives

| No. | Ref. | Details | Target Date | Progress |
|------------|-------------|-------------------|--------------------|-----------------|
| 1 | | Litter Management | | Ongoing |

6. Management Structure

Under the terms of WL 91-1 Bailieborough Landfill Site no longer accepts waste. The Licence issued permits Cavan County Council to accept inert waste for the purposes of site restoration and remediation, subject to a maximum limit of 50,000 tonnes. Condition 4.1 of WL 93-1 requires that the restoration of the landfill be completed within 30 months of the date of grant of licence. The site is now fully capped, restored and closed. In terms of general overseeing of site at its current status the management structure is listed hereafter.

Table 6.1 Management Structure 2008-2009

| Position | Name | Duties |
|---|------------------|--|
| A/Senior Executive Officer | Padraig McGivney | Oversee general supervision, monitoring and reporting of the site. |
| Landfill Operations Manager Cavan County Council | Sinead Fox | Responsible for general supervision, monitoring and reporting of the site. |

Contact Person for Sanitary Authority:

Padraig McGivney, A/Senior Executive Officer,
Waste Management Section,
Cavan County Council.

7. Reporting of Incidents

All incidents are reported to the Agency in line with the requirements of Waste Licence ref. 91-1. Copies of all Incident Reporting documentation are available for inspection. There were no incidents recorded for this reporting period. There were no complaints recorded for this reporting period.

8. Financial Provision

Provision will be made in Cavan County Council Official Estimates for Charges as required under Condition 12 of Waste Licence Ref. 91-1.

APPENDIX 1

APPENDIX 2

APPENDIX 3



AER Returns Worksheet

Version 1.1.04

| | |
|-----------------------|------|
| REFERENCE YEAR | 2008 |
|-----------------------|------|

1. FACILITY IDENTIFICATION

| | |
|----------------------------|------------------------|
| Parent Company Name | Cavan County Council |
| Facility Name | Bailieborough Landfill |
| PRTR Identification Number | W0091 |
| Licence Number | W0091-01 |

Waste or IPPC Classes of Activity

| No. | class_name |
|------|---|
| 3.1 | Deposit on, in or under land (including landfill). |
| 3.4 | Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons. |
| 3.13 | 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. |
| 4.2 | Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes). |
| 4.3 | Recycling or reclamation of metals and metal compounds. |
| 4.4 | Recycling or reclamation of other inorganic materials. |
| 4.11 | Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule. |
| 4.13 | 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. |

| | |
|--|---|
| Address 1 | Tanderagee |
| Address 2 | Bailieborough |
| Address 3 | Co Cavan |
| Address 4 | |
| Country | Ireland |
| Coordinates of Location | 563600.000 |
| River Basin District | IEEA |
| NACE Code | 3821 |
| Main Economic Activity | Treatment and disposal of non-hazardous waste |
| AER Returns Contact Name | Sinead Fox |
| AER Returns Contact Email Address | sfox@cavancoco.ie |
| AER Returns Contact Position | Landfill Operations Manager |

| | |
|--|--------------------------------------|
| AER Returns Contact Telephone Number | 049-437 8418 |
| AER Returns Contact Mobile Phone Number | 087 980 8507 |
| AER Returns Contact Fax Number | 049 4332299 |
| Production Volume | 0.0 |
| Production Volume Units | |
| Number of Installations | 0 |
| Number of Operating Hours in Year | 0 |
| Number of Employees | 0 |
| User Feedback/Comments | Closed and Fully Remediated Landfill |
| Web Address | |

2. PRTR CLASS ACTIVITIES

| Activity Number | Activity Name |
|------------------------|---|
| 5d | Landfills |
| 5c | Installations for the disposal of non-hazardous waste |

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

| | |
|---|----|
| Is it applicable? | no |
| Have you been granted an exemption ? | |
| If applicable which activity class applies (as per Schedule 2 of the regulations) ? | |
| Is the reduction scheme compliance route being used ? | |

4.1 RELEASES TO AIR

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

| RELEASES TO AIR | | | | | ADD EMISSION POINT | | | |
|-----------------|----------------------|---------------|----------------|-------------------------------|---------------------|----------------------|------------------------------|----------------------------|
| POLLUTANT | | METHOD | | | QUANTITY | | | |
| No. Annex II | Name | M/ C/ E | Method Used | | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | Method Code | Designation or Description | | | | |
| 03 | Carbon dioxide (CO2) | C | MAB | GASSIM | 263000.0 | 263000.0 | 0.0 | 0.0 |
| 01 | Methane (CH4) | C | MAB | GASSIM | 93700.0 | 93700.0 | 0.0 | 0.0 |

ADD NEW ROW

DELETE ROW*

Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

| RELEASES TO AIR | | | | | ADD EMISSION POINT | | | |
|-----------------|------|---------------|----------------|-------------------------------|---------------------|----------------------|------------------------------|----------------------------|
| POLLUTANT | | METHOD | | | QUANTITY | | | |
| No. Annex II | Name | M/ C/ E | Method Used | | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | Method Code | Designation or Description | | | | |
| | | | | | 0.0 | 0.0 | 0.0 | 0.0 |

ADD NEW ROW

DELETE ROW*

Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

| RELEASES TO AIR | | | | | ADD EMISSION POINT | | | |
|-----------------|--|--------|-------------|--|--------------------|--|--|--|
| POLLUTANT | | METHOD | | | QUANTITY | | | |
| | | | Method Used | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Pollutant No. | Name | M/ C/ E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
|---------------|------|---------------|-----------------------------|----------------------------|------------------|-------------------|------------------------|----------------------|
| | | | | | 0.0 | 0.0 | 0.0 | 0.0 |

ADD NEW ROW

DELETE ROW

Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill:

Bailieborough Landfill

Please enter summary data on the quantities of methane flared and / or utilised

| | T (Total) kg/Year | M/ C/ E | Method Used | | Facility Total Capacity m3 per hour |
|--|-------------------|---------------|-------------|----------------------------|-------------------------------------|
| | | | Method Code | Designation or Description | |
| Total estimated methane generation (as per site model) | 0.0 | | | | N/A |
| Methane flared | 0.0 | | | | 0.0 |
| Methane utilised in engine/s | 0.0 | | | | 0.0 |
| Net methane emission (as reported in Section A above) | 97300.0 | C | MAB | GASSIM | N/A |

(Total Flaring Capacity)
(Total Utilising Capacity)

4.2 RELEASES TO WATERS

| PRTR# : W0091 | Facility Name : Bailieborough Landfill
2008 |

me : W0091_2008(1).xls | Return Year :

19/06/2009
16:22

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater submitted under AER / PRTR Reporting as this only concerns Releases from your facility

ce requirements, should NOT be

| RELEASES TO WATERS | | | | | | | | |
|--------------------|------|-------|-------------|----------------------------|--------------------|-------------------|------------------------|----------------------|
| POLLUTANT | | | | | ADD EMISSION POINT | QUANTIT Y | | |
| No. Annex II | Name | M/C/E | Method Used | | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | Method Code | Designation or Description | | | | |
| | | | | | 0.0 | 0.0 | 0.0 | 0.0 |

ADD NEW ROW

DELETE ROW

Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

| RELEASES TO WATERS | | | | | | | | |
|--------------------|------|-------|-------------|----------------------------|--------------------|-------------------|------------------------|----------------------|
| POLLUTANT | | | | | ADD EMISSION POINT | QUANTIT Y | | |
| No. Annex II | Name | M/C/E | Method Used | | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | Method Code | Designation or Description | | | | |
| | | | | | 0.0 | 0.0 | 0.0 | 0.0 |

ADD NEW ROW

DELETE ROW

Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

| RELEASES TO WATERS | | | | | | | |
|--------------------|--|--|--|--|--|--|--|
|--------------------|--|--|--|--|--|--|--|

| POLLUTANT | | | | | ADD EMISSION POINT | QUANTIT Y | | |
|---------------|------|-------|-------------|----------------------------|--------------------|-------------------|------------------------|----------------------|
| Pollutant No. | Name | M/C/E | Method Used | | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | Method Code | Designation or Description | | | | |
| | | | | | 0.0 | 0.0 | 0.0 | 0.0 |

ADD NEW ROW

DELETE ROW

Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

4.3 RELEASES TO WASTEWATER OR SEWER

| PRTR# : W0091 | Facility Name : Bailieborough Landfill |
 Filename : W0091_2008(1).xls | Return Year : 2008 |

19/06/20
09 16:22

SECTION A : PRTR POLLUTANTS

| OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER | | | | | | | | |
|--|------|--------|-------------|----------------------------|--------------------|-------------------|------------------------|----------------------|
| POLLUTANT | | METHOD | | | ADD EMISSION POINT | QUANTITY | | |
| No. Annex II | Name | M/C/E | Method Used | | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | Method Code | Designation or Description | | | | |
| | | | | | 0.0 | 0.0 | 0.0 | 0.0 |

ADD NEW ROW

DELETE ROW

Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

| OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER | | | | | | | | |
|--|------|--------|-------------|-------------|--------------------|-----------|---|---|
| POLLUTANT | | METHOD | | | ADD EMISSION POINT | QUANTITY | | |
| Pollutant No. | Name | M/C/E | Method Used | | Emission Point 1 | T (Total) | A | F |
| | | | Method Code | Designation | | | | |
| | | | | | | | | |

| | | | | | | | | |
|--|--|--|--|----------------|--|---------|-------------------------|-----------------------|
| | | | | or Description | | KG/Year | (Accidental) KG/Year | (Fugitive) KG/Year |
| | | | | | | 0.0 | 0.0 | 0.0 |

ADD NEW ROW

DELETE ROW*

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

PRINT THIS SHEET

4.4 RELEASES TO LAND

| PRTR# : W0091 | Facility Name : Bailieborough Landfill
Year : 2008 |

me : W0091_2008(1).xls | Return

19/06/2009
16:22

SECTION A : PRTR POLLUTANTS

| RELEASES TO LAND | | | | | | |
|------------------|------|--------|-------------|----------------------------|--------------------|---|
| POLLUTANT | | METHOD | | | ADD EMISSION POINT | QUANTITY |
| No. Annex II | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year A (Accidental) KG/Year |
| | | | | | | 0.0 0.0 0.0 |

ADD NEW ROW

DELETE ROW*

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS
(as required in your Licence)

| RELEASES TO LAND | | | | | | |
|------------------|------|--------|-------------|----------------------------|--------------------|---|
| POLLUTANT | | METHOD | | | ADD EMISSION POINT | QUANTITY |
| Pollutant No. | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year A (Accidental) KG/Year |
| | | | | | | |

| | | | | | | | | | |
|--|--|--|--|--|--|--|-----|-----|-----|
| | | | | | | | ear | | |
| | | | | | | | 0.0 | 0.0 | 0.0 |

ADD NEW ROW

DELETE ROW*

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

PRINT THIS SHEET

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0091 | Facility Name : Bailieborough Landfill | W0091_2008(1).xls | Return Year : 2008 |

me :

19/06/2009
16:22

| Transfer Destination | European Waste Code | Hazardous | Quantity T/Year | Description of Waste | Waste Treatment Operation | Method Used | | Location of Treatment | Name and Licence / Permit No. of Recoverer / Disposer / Broker | Address of Recoverer / Disposer / Broker | Name and Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY) | Licence / Permit No. of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY) |
|----------------------|---------------------|-----------|-----------------|----------------------|---------------------------|-------------|-------------|-----------------------|--|--|--|--|
| | | | | | | M/C /E | Method Used | | | | | |
| | | | | | | | | | | | | |

ADD NEW ROW

DELETE ROW*

* Select a row by double-clicking the Description of Waste then click the delete button

PRINT THIS SHEET

