

**Facility Information Summary**

|                                   |   |
|-----------------------------------|---|
| AER Reporting Year                | 2015  |
| Licence Register Number           | W0015-01  |
| Name of site                      | Ballyogan Landfill & Recycling Park                 |
| Site Location                     | Ballyogan, Carrickmines, Dublin 18                  |
| NACE Code                         | 3821  |
| Class/Classes of Activity         | Deposit in.or under land (closed unlined landfills) |
| National Grid Reference (6E, 6 N) | 320500E 223900N (-6.19293 lon 53.252 lat)           |

A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year and an overview of compliance with your licence listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.

Currently the site operates only a Civic Recycling Facility (CRF) within the Recycling Park. This was operated by Oxigen Environmental on a short term contract since August 2010-February 2016 and is now operated by Thorntons. The principal activity on the site up to March 2005 was 'deposit in, on or under land' within the landfill site. The landfill site ceased accepting waste on 29th March 2005. The principal activity on site from 2005 to 2009 was baling waste for transfer to Arthurstown Landfill, Kill, Co.Kildare. Ballyogan waste transfer facility ceased operation in May 2009.

**Declaration:**

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

|   |                  |
|---|------------------|
| <u>S. Moran</u>   | <u>12/4/2016</u> |
| Signature<br>Group/Facility manager<br><small>(or nominated, suitably qualified and experienced deputy)</small> | Date             |

## AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)

Lic No: W0015-01

Additional information

1 Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If **you do not have** licensed emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections

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

2 Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections

Table W1 Storm water monitoring

| Location reference | Location relative to site activities | PRTR Parameter | Licensed Parameter | Monitoring date     | ELV or trigger level in licence or any revision thereof* | Licence Compliance criteria | Measured value | Unit of measurement |
|--------------------|--------------------------------------|----------------|--------------------|---------------------|--|-----------------------------|----------------|---------------------|
| Stormwater Outlet  | onsite                               | SELECT         | Suspended Solids   | Jan-Dec 2015 weekly | 35   | All results < 1.2 x ELV     | 3.814          | mg/L                |
| Stormwater Outlet  | onsite                               | SELECT         | Ammoniacal N       | Jan-Dec 2015 weekly | n/a  | N/A                         | 0.11684        | mg/L                |

\*trigger values may be agreed by the Agency outside of licence conditions

Table W2 Visual inspections-Please only enter details where contamination was observed.

| Location Reference | Date of inspection | Description of contamination | Source of contamination | Corrective action |
|--------------------|--------------------|------------------------------|-------------------------|-------------------|
|                    |                    |                              |                         |                   |

Licensed Emissions to water and /or wastewater(sewer)-periodic monitoring (non-continuous)

3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below

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

Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the

4 EPA? If no please detail what areas require improvement in [External/Internal Lab Assessment of Quality checklist](#) [results checklist](#) additional information box

Table W3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)

| Emission reference no: | Emission released to  | Parameter/ Substance <sup>Note 1</sup> | Type of sample | Frequency of monitoring | Averaging period | ELV or trigger values in licence or any revision thereof <sup>Note 2</sup> | Licence Compliance criteria                         | Measured value | Annual mass load (kg) | Comments |
|------------------------|-----------------------|--|----------------|-------------------------|------------------|--|---|----------------|-----------------------|----------|
| Landfill Sewer         | Wastewater/Se-<br>wer | pH                                     | discrete       | Monthly                 | Annual           | 5-10 units   | No pH value shall deviate from the specified range. | 7.909          | -                     |          |
| Landfill Sewer         | Wastewater/Se-<br>wer | Dissolved Methane                      | discrete       | Monthly                 | Annual           | 0.14 mg/l  | All results < 1.2 x ELV                             | 0.005641111    | 0.04                  |          |
| Landfill Sewer         | Wastewater/Se-<br>wer | Ammoniacal Nitrogen                    | discrete       | Monthly                 | Annual           | 300 mg/l   | All results < 1.2 x ELV                             | 71.53          | 450.68                |          |
| Landfill Sewer         | Wastewater/Se-<br>wer | BOD                                    | discrete       | Monthly                 | Annual           | 12,500 mg/l  | All results < 1.2 x ELV                             | <1             | <1                    |          |
| Landfill Sewer         | Wastewater/Se-<br>wer | COD                                    | discrete       | Monthly                 | Annual           | 37,500 mg/l  | All results < 1.2 x ELV                             | 54.53          | 343.57                |          |
| Landfill Sewer         | Wastewater/Se-<br>wer | Oils, Fats & Greases (Dissolved)       | discrete       | Monthly                 | Annual           | 200 mg/l   | All results < 1.2 x ELV                             | <1             | <1                    |          |
| Landfill Sewer         | Wastewater/Se-<br>wer | Sulphate                               | discrete       | Monthly                 | Annual           | 500 mg/l   | All results < 1.2 x ELV                             | 85.6           | 539.32                |          |
| Landfill Sewer         | Wastewater/Se-<br>wer | Surfactants                            | discrete       | Monthly                 | Annual           | 100 mg/l   | All results < 1.2 x ELV                             | 0.238          | 1.50                  |          |
| Landfill Sewer         | Wastewater/Se-<br>wer | Total Suspended Solids                 | discrete       | Monthly                 | Annual           | 2,500 mg/l   | All results < 1.2 x ELV                             | 22.8           | 143.65                |          |

Note 1: Volumetric flow shall be included as a reportable parameter

6 Note 2: Where Emission Limit Values (ELV) do not apply to your licence please compare results against EQS for Surface water or relevant receptor quality standards

**7 Continuous monitoring**

8 Does your site carry out continuous emissions to water/sewer monitoring? Additional Information

|   |  |
|---|--|
| <b>Yes</b>  |  |
| <b>If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant</b> |  |
| Did continuous monitoring equipment experience downtime? <b>If yes please record downtime in table W4</b>       | <b>Yes</b> Yes power experienced a brief power outage in November 2015                                     |
| Do you have a proactive service contract for each piece of continuous monitoring equipment on site?             | <b>Yes</b> The site has an ongoing maintenance contract with CSL to ensure equipment on site is maintained |
| Did abatement system bypass occur during the reporting year? <b>If yes please complete table W5 below</b>       | <b>No</b>  |

**Table W4: Summary of average emissions -continuous monitoring**

| Emission reference no: | Emission released to | Parameter/ Substance | ELV or trigger values in licence or any revision thereof | Averaging Period | Compliance Criteria | Units of measurement | Annual Emission for current reporting year (kg) | % change +/- from previous reporting year | Comments |
|------------------------|----------------------|----------------------|--|------------------|---------------------|----------------------|---|---|----------|
|                        |                      |                      |  |                  |                     |                      |   |   |          |
|                        |                      |                      |  |                  |                     |                      |   |   |          |

note 1: Volumetric flow shall be included as a reportable parameter.

**Table W5: Abatement system bypass reporting table**

| Date | Duration (hours) | Location | Resultant emissions | Reason for bypass | Corrective action* | Was a report submitted to the EPA? | When was this report submitted? |
|------|------------------|----------|---------------------|-------------------|--------------------|------------------------------------|---------------------------------|
|      |                  |          |                     |                   |                    | SELECT                             |                                 |
|      |                  |          |                     |                   |                    |                                    |                                 |

\*Measures taken or proposed to reduce or limit bypass frequency

|                             |                  |            |
|-----------------------------|------------------|------------|
| <b>AIR-summary template</b> | Lic No: W0015-01 | Year: 2015 |
|-----------------------------|------------------|------------|

Answer all questions and complete all tables where relevant

- 1 Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If **you do not have** licenced emissions and **do not complete a solvent management plan** (table A4 and A5) you do not need to complete the tables

| Additional information |  |
|------------------------|--|
| Yes                    |  |

|   |
|---|
| <b>Periodic/Non-Continuous Monitoring</b> |
|---|

- 2 Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below

|     |  |
|-----|--|
| Yes |  |
|-----|--|

- 3 Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? [Basic air monitoring checklist](#)

[AGN2](#)

|     |  |
|-----|--|
| Yes |  |
|-----|--|

**Table A1: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)**

| Emission reference no: | Parameter/ Substance      | Frequency of Monitoring | ELV in licence or any revision thereof | Licence Compliance criteria | Measured value | Unit of measurement | Compliant with licence limit | Method of analysis                 | Annual mass load (kg) | Comments - reason for change in % mass load from previous year if applicable |
|------------------------|---------------------------|-------------------------|--|-----------------------------|----------------|---------------------|------------------------------|------------------------------------|-----------------------|--|
| BN01                   | Carbon monoxide (CO)      | annual                  | 650                                    |                             | 880.67         | mg/m3               | No                           | NDIR by Horiba PG-350E             | 7,970                 |  |
| BN01                   | Nitrogen oxides (NOx/NO2) | annual                  | 500                                    |                             | 990.11         | mg/m3               | No                           | Chemiluminescence by Horiba PG-250 | 8,959                 |  |
| BN01                   | Sulphur oxides (SOx/SO2)  | annual                  | -                                      |                             | 39.39          | mg/m3               | Yes                          | NDIR by Horiba PG-250              | 357                   |  |
| BN01                   | Flow                      | annual                  | 3000                                   |                             | 2612           | m3/hr               | Yes                          | Pitot tube and thermocouple        |                       |  |

Note 1: Volumetric flow shall be included as a reportable parameter

|                              |         |          |      |      |
|------------------------------|---------|----------|------|------|
| <b>AIR-summary template</b>  | Lic No: | W0015-01 | Year | 2015 |
| <b>Continuous Monitoring</b> |         |          |      |      |

4 Does your site carry out continuous air emissions monitoring?

If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)

5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below

6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?

7 Did your site experience any abatement system bypasses? If yes please detail them in table A3 below

**Table A2: Summary of average emissions -continuous monitoring**

| Emission reference no: | Parameter/ Substance | ELV in licence or any revision thereof | Averaging Period | Compliance Criteria | Units of measurement | Annual Emission | Annual maximum | Monitoring Equipment downtime (hours) | Number of ELV exceedences in current reporting year | Comments |
|------------------------|----------------------|--|------------------|---------------------|----------------------|-----------------|----------------|---------------------------------------|---|----------|
|                        | SELECT               |  |                  | SELECT              | SELECT               |                 |                |                                       |   |          |
|                        | SELECT               |  |                  |                     | SELECT               |                 |                |                                       |   |          |
|                        | SELECT               |  |                  |                     | SELECT               |                 |                |                                       |   |          |
|                        | SELECT               |  |                  |                     | SELECT               |                 |                |                                       |   |          |
|                        | SELECT               |  |                  |                     | SELECT               |                 |                |                                       |   |          |

note 1: Volumetric flow shall be included as a reportable parameter.

**Table A3: Abatement system bypass reporting table** [Bypass protocol](#)

| Date* | Duration** (hours) | Location | Reason for bypass | Impact magnitude | Corrective action |
|-------|--------------------|----------|-------------------|------------------|-------------------|
|       |                    |          |                   |                  |                   |
|       |                    |          |                   |                  |                   |
|       |                    |          |                   |                  |                   |
|       |                    |          |                   |                  |                   |
|       |                    |          |                   |                  |                   |
|       |                    |          |                   |                  |                   |
|       |                    |          |                   |                  |                   |
|       |                    |          |                   |                  |                   |

\* this should include all dates that an abatement system bypass occurred

\*\* an accurate record of time bypass beginning and end should be logged on site and maintained for future Agency inspections please refer to bypass protocol link

**Solvent use and management on site**

8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5

SELECT

|  |  |
|--|--|
| <b>Table A4: Solvent Management Plan Summary</b> | <a href="#">Solvent regulations</a> Please refer to linked solvent regulations to complete table 5 and 6 |
| <b>Total VOC Emission limit value</b>            |  |

| Reporting year | Total solvent input on site (kg) | Total VOC emissions to Air from entire site (direct and fugitive) | Total VOC emissions as %of solvent input | Total Emission Limit Value (ELV) in licence or any revision thereof | Compliance |
|----------------|----------------------------------|---|--|---|------------|
|                |                                  |   |  |   | SELECT     |
|                |                                  |   |  |   | SELECT     |

**Table A5: Solvent Mass Balance summary**

|              | (I) Inputs (kg) | (O) Outputs (kg)                  |                             |                              |                               |   |                                   |                                       |
|--------------|-----------------|-----------------------------------|-----------------------------|------------------------------|-------------------------------|---|-----------------------------------|---------------------------------------|
| Solvent      | (I) Inputs (kg) | Organic solvent emission in waste | Solvents lost in water (kg) | Collected waste solvent (kg) | Fugitive Organic Solvent (kg) | Solvent released in other ways e.g. by- | Solvents destroyed onsite through | Total emission of Solvent to air (kg) |
|              |                 |                                   |                             |                              |                               |   |                                   |                                       |
|              |                 |                                   |                             |                              |                               |   |                                   |                                       |
|              |                 |                                   |                             |                              |                               |   |                                   |                                       |
| <b>Total</b> |                 |                                   |                             |                              |                               |   |                                   |                                       |

**Bund testing**

dropdown menu click to see options

Additional information

- Are you required by your licence to undertake integrity testing on bunds and containment structures? If yes please fill out table B1 below listing all **new bunds and containment structures** on site, in addition to **all bunds which failed the integrity test-all bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period** (mobile bunds and chemstore included)
- 1 Please provide integrity testing frequency period
  - 2 Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)
  - 3 How many bunds are on site?
  - 4 How many of these bunds have been tested within the required test schedule?
  - 5 How many mobile bunds are on site?
  - 6 Are the mobile bunds included in the bund test schedule?
  - 7 How many of these mobile bunds have been tested within the required test schedule?
  - 8 How many sumps on site are included in the integrity test schedule?
  - 9 How many of these sumps are integrity tested within the test schedule?
- Please list any sump integrity failures in table B1**
- 10 Do all sumps and chambers have high level liquid alarms?
  - 11 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
  - 12 Is the Fire Water Retention Pond included in your integrity test programme?

|         |   |
|---------|---|
| Yes     |   |
| 3 years |   |
| No      |   |
|         | These are new mobile bunds are put in place in 2015 |
| No      |   |
|         |   |
|         |   |
|         |   |
| SELECT  |   |
| SELECT  |   |
| SELECT  |   |

**Table B1: Summary details of bund /containment structure integrity test**

| Bund/Containment structure ID | Type   | Specify Other type | Product containment | Actual capacity | Capacity required* | Type of integrity test | Other test type | Test date | Integrity reports maintained on site? | Results of test | Integrity test failure explanation <50 words | Corrective action taken | Scheduled date for retest | Results of retest(if in current reporting year) |
|-------------------------------|--------|--------------------|---------------------|-----------------|--------------------|------------------------|-----------------|-----------|---------------------------------------|-----------------|--|-------------------------|---------------------------|---|
|                               | SELECT |                    |                     |                 |                    | SELECT                 |                 |           | SELECT                                | SELECT          |  | SELECT                  |                           |   |
|                               | SELECT |                    |                     |                 |                    | SELECT                 |                 |           | SELECT                                | SELECT          |  | SELECT                  |                           |   |

- \* Capacity required should comply with 25% or 110% containment rule as detailed in your licence
- Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance? [bunding and storage guidelines](#)
- 15 Are channels/transfer systems to remote containment systems tested?
  - 16 Are channels/transfer systems compliant in both integrity and available volume?

Commentary

|        |  |
|--------|--|
| SELECT |  |
| SELECT |  |
| SELECT |  |

**Pipeline/underground structure testing**

- Are you required by your licence to undertake integrity testing\* on underground structures e.g. pipelines or sumps etc? If yes please fill out table 2 below listing all underground structures and pipelines on site **which failed the integrity test and all which have not been tested within the integrity test period as specified**
- 1 Please provide integrity testing frequency period
- \*please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

|        |  |
|--------|--|
| No     |  |
| SELECT |  |

**Table B2: Summary details of pipeline/underground structures integrity test**

| Structure ID | Type system | Material of construction: | Does this structure have Secondary containment? | Type secondary containment | Type integrity testing | Integrity reports maintained on site? | Results of test | Integrity test failure explanation <50 words | Corrective action taken | Scheduled date for retest | Results of retest(if in current reporting year) |
|--------------|-------------|---------------------------|---|----------------------------|------------------------|---------------------------------------|-----------------|--|-------------------------|---------------------------|---|
|              | SELECT      | SELECT                    | SELECT  | SELECT                     | SELECT                 | SELECT                                | SELECT          |  |                         |                           | SELECT  |
|              |             |                           |   |                            |                        |                                       |                 |  |                         |                           |   |
|              |             |                           |   |                            |                        |                                       |                 |  |                         |                           |   |

Please use commentary for additional details not answered by tables/ questions above

|   |                  |           |
|---|------------------|-----------|
| <b>Groundwater/Soil monitoring template</b> | Lic No: W0015-01 | Year 2015 |
|---|------------------|-----------|

|  |  |  |
|--|--|--|
| 1 Are you required to carry out groundwater monitoring as part of your licence requirements?   | yes  | Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretation as an additional section in this AER |
| 2 Are you required to carry out soil monitoring as part of your licence requirements?  | no   |  |
| 3 Do you extract groundwater for use on site? If yes please specify use in comment section   | no   |  |
| 4 Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below. | <a href="#">Groundwater monitoring template</a><br>yes |  |
| 5 Is the contamination related to operations at the facility (either current and/or historic)  | N/A  |  |
| 6 Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site   | N/A  |  |
| 7 Please specify the proposed time frame for the remediation strategy  | SELECT   |  |
| 8 Is there a licence condition to carry out/update ELRA for the site?  | SELECT   |  |
| 9 Has any type of risk assessment been carried out for the site?   | SELECT   |  |
| 10 Has a Conceptual Site Model been developed for the site?  | SELECT   |  |
| 11 Have potential receptors been identified on and off site?   | SELECT   |  |
| 12 Is there evidence that contamination is migrating offsite?  | SELECT   |  |

There is 3 years data for which to examine trends (2012-2015). There are some minor increases in results in some parameters both up and down gradient. Many of the parameters are only required to be monitored annually and a trend cannot really be established with any certainty for three results. The only parameter which is trending upwards in a downgradient location is Chromium and the levels are very low and well below guidance levels.

**Table 1: Upgradient Groundwater monitoring results**

| Date of sampling | Sample location reference | Parameter/ Substance | Methodology         | Monitoring frequency | Maximum Concentration++ | Average Concentration+ | unit      | GTV's*  | IGV                | Upward trend in yearly average pollutant concentration over last 5 years of monitoring data |
|------------------|---------------------------|----------------------|---------------------|----------------------|-------------------------|------------------------|-----------|---------|--------------------|---|
| 2015             | MW7D                      | Alkalinity as CaCO3  | Colorimetry         | Annual               | 265                     |                        | mg/l      |         | NAC                | Yes   |
|                  | MW7D                      | Ammoniacal Nitrogen  | Colorimetry         | Monthly/Quarterly    | 0.423                   | <0.2                   | mg/l      | 0.175   |                    | No  |
|                  | MW7D                      | Chloride             | Nitric Digest/ICP   | Quarterly            | 34.6                    | 32.3                   | mg/l      | 187.5   |                    | Yes   |
|                  | MW7D                      | Potassium            | Nitric Digest/ICP   | Quarterly            | 1.64                    | 1.33                   | mg/l      |         | 5                  | no  |
|                  | MW7D                      | Sodium               | Electrode           | Quarterly            | 18.5                    | 16.675                 | mg/l      | 150     |                    | yes   |
|                  | MW7D                      | Conductivity         | ISE                 | Monthly              | 617                     | 584                    | µs/cm     | 1875    |                    | yes   |
|                  | MW7D                      | Calcium              | Nitric Digest/ICP   | Annual               | 95.2                    |                        | mg/l      |         | 200                | yes   |
|                  | MW7D                      | Cyanide              | Nitric Digest/ICP   | Annual               | <0.05                   |                        | mg/l      | 0.0375  |                    | no  |
|                  | MW7D                      | Fluoride             | Colorimetry         | Annual               | <0.5                    |                        | mg/l      |         | 1                  | no  |
|                  | MW7D                      | Magnesium            | Nitric Digest/ICP   | Annual               | 8.26                    |                        | mg/l      |         | 50                 | yes   |
|                  | MW7D                      | Manganese            | Nitric Digest/ICP   | Annual               | 0.000102                |                        | mg/l      |         | 0.05               | no  |
|                  | MW7D                      | Phosphorous          | Nitric Digest/ICP   | Annual               | 0.409                   |                        | mg/l      |         | 0.03               | yes   |
|                  | MW7D                      | Sulphate as SO4      | Nitric Digest/ICP   | Annual               | 15                      |                        | mg/l      | 187.5   |                    | no  |
|                  | MW7D                      | TDS                  | Nitric Digest/ICP   | Annual               | 263                     |                        | mg/l      |         | 1000               | no  |
|                  | MW7D                      | Coliforms (Faecal)   | Membrane Filtration | Annual               | <1                      |                        | cfu/100ml |         | 0 counts per 100ml | no  |
|                  | MW7D                      | Coliforms (Total)    | Collert system      | Annual               | 4.1*                    |                        | MPN/100ml |         | 0 counts per 100ml | no  |
|                  | MW7D                      | TOC                  | Colorimetry         | Quarterly            | <3                      | <3                     | mg/l      |         | NAC                | no  |
|                  | MW7D                      | TON                  | Colorimetry         | Quarterly            | 6.09                    | 3.79                   | mg/l      |         | NAC                | no  |
|                  | MW7D                      | Total Phenols        | HPLC                | Quarterly            | <0.025                  | <0.025                 | mg/l      |         | 0.0005             | no  |
|                  | MW7D                      | pH                   | Electrode           | Quarterly            | 7.513                   | 7.3185                 | pH units  |         | >6.5&<9.5          | no  |
|                  | MW7D                      | Dissolved Oxygen     | Probe               | Quarterly            | 8.64                    | 5.2566667              | mg/l      |         | No abnormal change | no  |
|                  | MW7D                      | Boron                | Nitric Digest/ICP   | Annual               | <0.094                  |                        | mg/l      | 0.75    |                    | no  |
|                  | MW7D                      | Cadmium              | Nitric Digest/ICP   | Annual               | <0.001                  |                        | mg/l      | 0.00375 |                    | no  |
|                  | MW7D                      | Chromium             | Nitric Digest/ICP   | Annual               | <0.00356                |                        | mg/l      | 0.0375  |                    | no  |
|                  | MW7D                      | Copper               | Nitric Digest/ICP   | Annual               | <0.0085                 |                        | mg/l      | 1.5     |                    | no  |
|                  | MW7D                      | Iron                 | Nitric Digest/ICP   | Annual               | <0.00019                |                        | mg/l      |         | 0.2                | no  |
|                  | MW7D                      | Lead                 | Nitric Digest/ICP   | Annual               | <0.0002                 |                        | mg/l      | 0.01875 |                    | no  |
|                  | MW7D                      | Mercury              | Nitric Digest/ICP   | Annual               | <0.0001                 |                        | mg/l      | 0.00075 |                    | no  |
|                  | MW7D                      | Zinc                 | Nitric Digest/ICP   | Annual               | 0.00154                 |                        | mg/l      |         | 0.1                | no  |

.\* where average indicates arithmetic mean

.\*.\* maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year



Table 2: Downgradient Groundwater monitoring results

| Date of sampling | Sample location reference | Parameter/ Substance   | Methodology         | Monitoring frequency | Maximum Concentration | Average Concentration | unit      | GTV's*  | IGV                | Upward trend in yearly average pollutant concentration over last 5 years of monitoring data |
|------------------|---------------------------|------------------------|---------------------|----------------------|-----------------------|-----------------------|-----------|---------|--------------------|---|
| 2015             | MW4D                      | Alkalinity as CaCO3    | Colorimetry         | Annual               | 276                   |                       | mg/l      |         | NAC                | no  |
|                  | MW4D                      | Ammoniacal Nitrogen    | Colorimetry         | Quarterly            | <0.2                  | <0.2                  | mg/l      | 0.175   |                    | no  |
|                  | MW4D                      | Chloride               | Nitric Digest/ICP   | Quarterly            | 43.4                  | 40.425                | mg/l      | 187.5   |                    | yes   |
|                  | MW4D                      | Potassium              | Nitric Digest/ICP   | Quarterly            | 1.61                  | 1.525                 | mg/l      |         | 5                  | no  |
|                  | MW4D                      | Sodium                 | Electrode           | Quarterly            | 24.4                  | 22.775                | mg/l      | 150     |                    | no  |
|                  | MW4D                      | Conductivity           | ISE                 | Quarterly            | 777                   | 714                   | µs/cm     | 1875    |                    | no  |
|                  | MW4D                      | Calcium                | Nitric Digest/ICP   | Annual               | 99.8                  |                       | mg/l      |         | 200                | yes   |
|                  | MW4D                      | Cyanide                | Nitric Digest/ICP   | Annual               | <0.05                 |                       | mg/l      | 0.0375  |                    | no  |
|                  | MW4D                      | Fluoride               | Colorimetry         | Annual               | <0.5                  |                       | mg/l      |         | 1                  | no  |
|                  | MW4D                      | Magnesium              | Nitric Digest/ICP   | Annual               | 13.7                  |                       | mg/l      |         | 50                 | no  |
|                  | MW4D                      | Manganese              | Nitric Digest/ICP   | Annual               | 0.457                 |                       | mg/l      |         | 0.05               | yes   |
|                  | MW4D                      | Phosphorous            | Nitric Digest/ICP   | Annual               | 0.476                 |                       | mg/l      |         | 0.03               | yes   |
|                  | MW4D                      | Sulphate as SO4        | Nitric Digest/ICP   | Annual               | 38.3                  |                       | mg/l      | 187.5   |                    | no  |
|                  | MW4D                      | Total Suspended Solids | Nitric Digest/ICP   | Annual               | 445                   |                       | mg/l      |         | -                  | no  |
|                  | MW4D                      | Coliforms (Faecal)     | Membrane Filtration | Annual               | <1                    |                       | cfu/100ml |         | 0 counts per 100ml | no  |
|                  | MW4D                      | Coliforms (Total)      | Colilert system     | Annual               | 115.3                 |                       | MPN/100ml |         | 0 counts per 100ml | no  |
|                  | MW4D                      | TOC                    | Colorimetry         | Quarterly            | <3                    | <3                    | mg/l      |         | NAC                | no  |
|                  | MW4D                      | TON                    | Colorimetry         | Quarterly            | <0.1                  | <0.1                  | mg/l      |         | NAC                | no  |
|                  | MW4D                      | Total Phenols          | HPLC                | Quarterly            | 0                     | <0.025                | mg/l      |         | 0.0005             | no  |
|                  | MW4D                      | pH                     | Electrode           | Quarterly            | 7.82                  | 7.6415                | pH units  |         | >6.5&<9.5          | no  |
|                  | MW4D                      | Dissolved Oxygen       | Probe               | Quarterly            | 8.15                  | 5.8                   | mg/l      |         | No abnormal change | no  |
|                  | MW4D                      | Boron                  | Nitric Digest/ICP   | Annual               | 0.0175                |                       | mg/l      | 0.75    |                    | no  |
|                  | MW4D                      | Cadmium                | Nitric Digest/ICP   | Annual               | 0.000179              |                       | mg/l      | 0.00375 |                    | no  |
|                  | MW4D                      | Chromium               | Nitric Digest/ICP   | Annual               | 0.00843               |                       | mg/l      | 0.0375  |                    | yes   |
|                  | MW4D                      | Copper                 | Nitric Digest/ICP   | Annual               | <0.00085              |                       | mg/l      | 1.5     |                    | no  |
|                  | MW4D                      | Iron                   | Nitric Digest/ICP   | Annual               | <0.019                |                       | mg/l      |         | 0.2                | no  |
|                  | MW4D                      | Lead                   | Nitric Digest/ICP   | Annual               | <0.00002              |                       | mg/l      | 0.01875 |                    | no  |
|                  | MW4D                      | Mercury                | Nitric Digest/ICP   | Annual               | <0.00001              |                       | mg/l      | 0.00075 |                    | no  |
|                  | MW4D                      | Zinc                   | Nitric Digest/ICP   | Annual               | 0.000895              |                       | mg/l      |         | 0.1                | no  |

\*Please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA.

More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31) [Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites \(EPA 2013\)](#).

\*\*Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS). If the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS) [Surface water EQS](#) [Groundwater regulations GTV's](#) [Drinking water \(private supply\) standards](#)

Table 3: Soil results

| Date of sampling | Sample location reference | Parameter/ Substance | Methodology | Monitoring frequency | Maximum Concentration | Average Concentration | unit   |
|------------------|---------------------------|----------------------|-------------|----------------------|-----------------------|-----------------------|--------|
|                  |                           |                      |             |                      |                       |                       | SELECT |
|                  |                           |                      |             |                      |                       |                       | SELECT |

Where additional detail is required please enter it here in 200 words or less

[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

|    |   | Commentary                               |   |
|----|---|--|---|
| 1  | ELRA initial agreement status   | SELECT                                   | An ELRA has been completed on request of the insurance company. This has not been submitted to the EPA. |
| 2  | ELRA review status  | SELECT                                   |   |
| 3  | Amount of Financial Provision cover required as determined by the latest ELRA | Specify                                  |   |
| 4  | Financial Provision for ELRA status   | SELECT                                   |   |
| 5  | Financial Provision for ELRA - amount of cover                                | Specify                                  |   |
| 6  | Financial Provision for ELRA - type   | SELECT                                   |   |
| 7  | Financial provision for ELRA expiry date                                      | Enter expiry date                        |   |
| 8  | Closure plan initial agreement status   | Closure plan submitted and agreed by EPA | Landfill closed in 2005   |
| 9  | Closure plan review status  | SELECT                                   |   |
| 10 | Financial Provision for Closure status  | SELECT                                   |   |
| 11 | Financial Provision for Closure - amount of cover                             | Specify                                  |   |
| 12 | Financial Provision for Closure - type  | SELECT                                   |   |
| 13 | Financial provision for Closure expiry date                                   | Enter expiry date                        |   |

**Noise monitoring summary report**

Lic No: W0015-01 Year

2015

1 Was noise monitoring a licence requirement for the AER period?

Yes

If yes please fill in table N1 noise summary below

2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6?

Noise  
Guidance  
note NG4

Yes

3 Does your site have a noise reduction plan

No

4 When was the noise reduction plan last updated?

Enter date

5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

No

**Table N1: Noise monitoring summary**

| Date of monitoring | Time period | Noise location (on site) | Noise sensitive location -NSL (if applicable) | LA <sub>eq</sub> | LA <sub>90</sub> | LA <sub>10</sub> | LA <sub>max</sub> | Tonal or Impulsive noise* (Y/N) | If tonal /impulsive noise was identified was 5dB penalty applied? | Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)   | Is site compliant with noise limits (day/evening/night)? |
|--------------------|-------------|--------------------------|---|------------------|------------------|------------------|-------------------|---------------------------------|---|--|--|
| 29/10/2015         | Day         | 321149E                  | NSL1  | 71.5             | 58.9             | 75.4             | 87.79             | No                              | No  | Onsite: None, Offsite: Ballyogan Road Tra  | Yes  |
| 16/11/2015         | Night       | 224526N                  | NSL1  | 65               | 45.5             | 67.3             | 85.74             | No                              | No  | Onsite: None, Offsite: Ballyogan Road traffic, buzzing of power lines, Luas.   | Yes  |
| 29/10/2015         | Day         | 320795E                  | NSL2  | 63               | 43.1             | 62.1             | 94.81             | No                              | No  | Onsite: Bin closing, compactor working in recycling depot. Site barely if at all audible at this location, Offsite: Ballyogan Road traffic, Construction site across the Ballyogan Road, Luas, M50 traffic faintly audible at this location. Main noise sources were from the DLR depot vehicles and people passing in and out of depot, also fan unit running in the depot. | Yes  |
| 17/11/2015         | Night       | 224264N                  | NSL2  | 39               | 35.7             | 39.1             | 68.6              | No                              | No  | Onsite: Landfill Gas Utilisation Plant, Offsite: Electricity sub station at site boundary, bird chatter. Traffic on Ballyogan road and M50 traffic faintly audible on occasion.  | Yes  |
| 29/10/2015         | Day         | 320834E                  | NSL3  | 69.1             | 59               | 73               | 84.24             | No                              | No  | Onsite: 1 truck left recycling depot, Offsite: DLR depot traffic, Ballyogan Road traffic, Luas, Construction site machinery across road, pedestrians on pavement.  | Yes  |
| 17/11/2015         | Night       | 224361N                  | NSL3  | 57.9             | 36.3             | 59.5             | 75.85             | No                              | No  | Onsite: Landfill Gas Utilisation Plant, Offsite: Electricity sub station lines was the main noise source at this location. Ballyogan Road Traffic at junction to DLR depot, distant dog barks.   | Yes  |
| 29/10/2015         | Day         | 321229E                  | NSL4  | 73.3             | 61.6             | 77.4             | 89.57             | No                              | No  | Onsite: None, Offsite: Ballyogan Road traffic, consaw working on houses, Pedestrians at Luas Stop, across road, Luas, M50 traffic.   | Yes  |
| 16/11/2015         | Night       | 224242N                  | NSL4  | 72.8             | 47.6             | 71               | 100.71            | No                              | No  | Onsite: None, Offsite: Luas, pedestrians on pavement, Ballyogan Rd Traffic, House alarm in distance, M50 traffic faintly audible, dog bark in distance.  | Yes  |

| Date of monitoring | Time period | Noise location (on site) | Noise sensitive location -NSL (if applicable) | LA <sub>req</sub> | LA <sub>90</sub> | LA <sub>10</sub> | LA <sub>max</sub> | Tonal or Impulsive noise* (Y/N) | If tonal /impulsive noise was identified was 5dB penalty applied? | Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)  | Is <u>site</u> compliant with noise limits (day/evening/night)? |
|--------------------|-------------|--------------------------|---|-------------------|------------------|------------------|-------------------|---------------------------------|---|---|---|
| 29/10/2015         | Day         | 320908E                  | NSL5  | 54.3              | 47.1             | 56.2             | 84.55             | No                              | No  | Onsite: Glass being put into site bins (breaking), cars leaving Recycling depot, bins closing and compacting, Offsite: Ballyogan Road traffic, construction site machinery across road and to the south of site, Luas, Post office staff in and out of depot by van or on foot. Excavator working on a site south of the facility | Yes   |
| 16/11/2015         | Night       | 224296N                  | NSL5  | 48.9              | 40.8             | 51.9             | 77.76             | No                              | No  | Onsite: None, Offsite: An post staff and van movements, buzzing of power lines, Ballyogan Road Traffic. M50 traffic faintly audible.  | Yes   |
| 29/10/2015         | Day         | 320535E                  | NSL6  | 42.5              | 39.5             | 44.1             | 65                | No                              | No  | Onsite: None, Offsite: Glenamuck and Enniskerry Road traffic, dog barks in distance, stream flowing near site boundary, Bird chatter, aeroplane in distance, Construction site at junction of Glenamuck and Enniskerry Road. M50 road traffic faintly audible.  | Yes   |
| 17/11/2015         | Night       | 223356N                  | NSL6  | 34.4              | 31.4             | 36.3             | 63.06             | No                              | No  | Onsite: None, Offsite: Stream on site boundary, traffic on Enniskerry and M50 faintly audible, aeroplane, wildlife (bird/foxes).  | Yes   |
| 29/10/2015         | Day         | 320321E                  | NSL7  | 52.2              | 37.3             | 44.8             | 77.76             | No                              | No  | Onsite: None, Offsite: bird song, golf course, players on golf course, traffic at Enniskerry Road and M50, Dog bark offsite dog movement in rugby pitch boundary.   | Yes   |
| 17/11/2015         | Night       | 223409N                  | NSL7  | 34.7              | 27.7             | 36.3             | 65.36             | No                              | No  | Onsite: None, Offsite: Birds movement, wildlife in bushes, cars on Enniskerry Road, leaves falling from trees, M50 traffic in background was faint but constant.  | Yes   |

\*Please ensure that a tonal analysis has been carried out as per guidance note NG4. These records must be maintained onsite for future inspection

If noise limits exceeded as a result of noise attributed to site activities, please choose the corrective action from the following options?

nothing\*\*

Noise exceedances at the site is caused by passing traffic from Ballyogan Road, the luas and the M50. It is not as a result of landfill activities.

Any additional comments? (less than 200 words)

**Environmental Management Programme/Continuous Improvement Programme template** Lic No: W0015-01 Year 2015

| Highlighted cells contain dropdown menu click to view |   | Additional Information |  |
|---|---|------------------------|--|
| 1   | Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information   | SELECT                 |  |
| 2   | Does the EMS reference the most significant environmental aspects and associated impacts on-site  | SELECT                 |  |
| 3   | Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements   | SELECT                 |  |
| 4   | Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence | SELECT                 |  |

| Environmental Management Programme (EMP) report |        |                      |                           |                |                       |
|---|--------|----------------------|---------------------------|----------------|-----------------------|
| Objective Category                              | Target | Status (% completed) | How target was progressed | Responsibility | Intermediate outcomes |
| SELECT  |        | SELECT               |                           | SELECT         | SELECT                |
| SELECT  |        | SELECT               |                           | SELECT         | SELECT                |
| SELECT  |        | SELECT               |                           | SELECT         | SELECT                |

## Resource Usage/Energy efficiency summary

Lic No:

W0015-01

Year

2015

## Additional information

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
- 2 Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information
- 3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

|                     |  |
|---------------------|--|
| Enter date of audit |  |
| No                  |  |
| SELECT              |  |

| Table R1 Energy usage on site            |               |              |  |  |
|--|---------------|--------------|--|--|
| Energy Use                               | Previous year | Current year | Production +/- % compared to previous reporting year** | Energy Consumption +/- % vs overall site production* |
| Total Energy Used (MWHrs)                |               |              |  |  |
| Total Energy Generated (MWHrs)           |               |              |  |  |
| Total Renewable Energy Generated (MWHrs) | 5262          |              | 0  | 0  |
| Electricity Consumption (MWHrs)          | 232,256       | 212,878      | 8.343712671  | -9.95%   |
| Fossil Fuels Consumption:                |               |              |  |  |
| Heavy Fuel Oil (m3)                      |               |              |  |  |
| Light Fuel Oil (m3)                      |               |              |  |  |
| Natural gas (m3)                         | 9078          | 6915         | 23.8268341   | -18%   |
| Coal/Solid fuel (metric tonnes)          |               |              |  |  |
| Peat (metric tonnes)                     |               |              |  |  |
| Renewable Biomass                        |               |              |  |  |
| Renewable energy generated on site       |               |              |  |  |

\* where consumption of energy can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

\*\* where site production information is available please enter percentage increase or decrease compared to previous year

| Table R2 Water usage on site |                                      |                                     |  | Water Emissions                                      |  | Water Consumption  |                        |
|------------------------------|--------------------------------------|-------------------------------------|--|--|--|--|------------------------|
| Water use                    | Water extracted Previous year m3/yr. | Water extracted Current year m3/yr. | Production +/- % compared to previous reporting year** | Energy Consumption +/- % vs overall site production* | Volume Discharged back to environment(m <sup>3</sup> /yr): | Volume used i.e not discharged to environment e.g. released as steam m3/yr | Unaccounted for Water: |
| Groundwater                  |                                      |                                     |  |  |  |  |                        |
| Surface water                |                                      |                                     |  |  |  |  |                        |
| Public supply                | 3500                                 | 1693.5                              | 51.61%   |  |  |  |                        |
| Recycled water               |                                      |                                     |  |  |  |  |                        |
| Total                        | 3500                                 | 1693.5                              | -51.61%  |  |  |  |                        |

\* where consumption of water can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

\*\* where site production information is available please enter percentage increase or decrease compared to previous year

| Table R3 Waste Stream Summary |       |          |              |          |       |
|-------------------------------|-------|----------|--------------|----------|-------|
|                               | Total | Landfill | Incineration | Recycled | Other |
| Hazardous (Tonnes)            |       |          |              |          |       |
| Non-Hazardous (Tonnes)        |       |          |              |          |       |

**Resource Usage/Energy efficiency summary** Lic No: W0015-01 Year 2015

Table R4: Energy Audit finding recommendations

| Date of audit | Recommendations | Description of Measures proposed | Origin of measures | Predicted energy savings % | Implementation date | Responsibility | Completion date | Status and comments |
|---------------|-----------------|----------------------------------|--------------------|----------------------------|---------------------|----------------|-----------------|---------------------|
|               |                 |                                  | SELECT             |                            |                     |                |                 |                     |
|               |                 |                                  | SELECT             |                            |                     |                |                 |                     |
|               |                 |                                  | SELECT             |                            |                     |                |                 |                     |

Table R5: Power Generation: Where power is generated onsite (e.g. power generation facilities/food and drink industry)please complete the following information

|   | Unit ID | Unit ID | Unit ID | Unit ID | Station Total |
|---|---------|---------|---------|---------|---------------|
| Technology                                |         |         |         |         |               |
| Primary Fuel                              |         |         |         |         |               |
| Thermal Efficiency                        |         |         |         |         |               |
| Unit Date of Commission                   |         |         |         |         |               |
| Total Starts for year                     |         |         |         |         |               |
| Total Running Time                        |         |         |         |         |               |
| Total Electricity Generated (GWH)         |         |         |         |         |               |
| House Load (GWH)                          |         |         |         |         |               |
| KWH per Litre of Process Water            |         |         |         |         |               |
| KWH per Litre of Total Water used on Site |         |         |         |         |               |

**Complaints and Incidents summary template** Lic No: W0015-01 Year 2015

|  |                        |
|--|------------------------|
| Complaints   | Additional information |
| Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below | No                     |

| Date  | Category | Other type (please specify) | Brief description of complaint (Free txt <20 words) | Corrective action< 20 words | Resolution status | Resolution date | Further information |
|---|----------|-----------------------------|---|-----------------------------|-------------------|-----------------|---------------------|
|   | SELECT   |                             |   |                             | SELECT            |                 |                     |
|   | SELECT   |                             |   |                             | SELECT            |                 |                     |
|   | SELECT   |                             |   |                             | SELECT            |                 |                     |
|   | SELECT   |                             |   |                             | SELECT            |                 |                     |
|   | SELECT   |                             |   |                             | SELECT            |                 |                     |
| Total complaints open at start of reporting year    |          |                             |   |                             |                   |                 |                     |
| Total new complaints received during reporting year |          |                             |   |                             |                   |                 |                     |
| Total complaints closed during reporting year       |          |                             |   |                             |                   |                 |                     |
| Balance of complaints end of reporting year         |          |                             |   |                             |                   |                 |                     |

**Incidents**

|  |                        |
|--|------------------------|
| Incidents  | Additional information |
| Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below | Yes                    |

\*For information on how to report and what constitutes an incident [What is an incident](#)

| Date of occurrence | Incident nature       | Location of occurrence          | Incident category* please refer to guidance | Receptor | Cause of incident    | Other cause(please specify)   | Activity in progress at time of incident | Communication | Occurrence | Corrective action<20 words | Preventative action <20 words | Resolution status | Resolution date | Likelihood of recurrence |
|--------------------|-----------------------|---------------------------------|---|----------|----------------------|---|--|---------------|------------|----------------------------|-------------------------------|-------------------|-----------------|--------------------------|
| 27/01/2015         | Trigger level reached | Other location (please specify) | 1. Minor                                    | Air      | Operational controls | CO2 levels above the trigger for perimeter wells, CO2 (% v/v): GW4: 2.3%, GW5: 3%, GW6: 2.1% , GW15: 1.6%, GW19a 3.7%, GW20a 5.0%, GW24: 4.7%, GW48a: 6.3%, GW49a: 2.8%, GW53b: 1.6%, GW57b: 1.8%, GW58: 2.3%, GW79a: 2.7%, GW80: 1.6%, GW81: 2.3%, GW82: 2.7%, GW83: 2.4%  | Normal activities                        | EPA           | Recurring  |                            |                               | Ongoing           |                 | High                     |
| 04/02/2015         | Trigger level reached | Other location (please specify) | 1. Minor                                    | Air      | Operational controls | CO2 levels above the trigger for perimeter wells, CO2 (% v/v): GW4: 2.1%, GW5: 2.7%, GW6: 2.1%, GW9a 2.2%, GW10b 2.2%, GW15: 1.6%, GW17: 1.6%, GW19a 1.6%, GW20a 4.7%, GW21b 4.7%, GW48a 4.7%, GW49a 2.6%, GW52b 1.7%, GW53b 1.8%, GW55b 1.6%, GW56 2.5%, GW57b 2.5%, GW58 2.2%, GW59a: 5.2%, GW79a: 2.8%, GW80: 1.6%, GW81: 2.3%, GW82: 3.1%, GW83: 2.2%, GW84a: 1.6%. | Normal activities                        | EPA           | Recurring  |                            |                               | Ongoing           |                 | High                     |
| 04/03/2015         | Trigger level reached | Other location (please specify) | 1. Minor                                    | Air      | Operational controls | CO2 levels above the trigger for perimeter wells, CO2 (% v/v): GW04: 1.8%, GW05: 1.9%, GW06: 2.1%, GW15: 1.6%, GW17: 1.9%, GW20A: 4.5%, GW24: 5.4%, GW45A: 6%, GW48A: 7.6%, GW49A: 2.5%, GW52B: 1.7%, GW53B: 1.5%, GW55A: 2.2%, GW58: 2.1%, GW59A: 5.2%, GW79A: 2.6%, GW81: 2.2%, GW82: 2.3%, GW83: 2.4%, GW84A: 1.5%.  | Normal activities                        | EPA           | Recurring  |                            |                               | Ongoing           |                 | High                     |
| 23/04/2015         | Trigger level reached | Other location (please specify) | 1. Minor                                    | Air      | Operational controls | CO2 levels above the trigger for perimeter wells, CO2 (% v/v): GW04: 2.3%, GW05: 3%, GW06: 2.4%, GW08: 1.6%, GW15: 1.5%, GW17: 2.8%, GW19A: 3.9%, GW20A: 4.4%, GW24: 5.8%, GW45A: 5.8%, GW48A: 4.2%, GW49A: 2.7%, GW52B: 4.9%, GW54A: 1.9%, GW56: 2%, GW57B: 3.1%, GW58: 2%, GW59A: 5.5%, GW66: 1.5%, GW79A: 2.9%, GW82: 3%, GW83: 2.7%, GW84a: 1.8%                    | Normal activities                        | EPA           | Recurring  |                            |                               | Ongoing           |                 | High                     |
| 26/05/2015         | Trigger level reached | Other location (please specify) | 1. Minor                                    | Air      | Operational controls | CO2 levels above the trigger for perimeter wells, CO2 (% v/v): GW03: 1.7%, GW04: 3.5%, GW05: 3.7%, GW06: 2.8%, GW07: 1.5%, GW08: 2.1%, GW15: 1.7%, GW17: 3.3%, GW19A: 4%, GW20A: 5.1%, GW24: 8.6%, GW45A: 6.5%, GW48A: 4.2%, GW49A: 2.8%, GW51A: 2%, GW52B: 5.5%, GW54A: 2.8%, GW56: 2.4%, GW57B: 4%, GW58: 1.6%, GW59A: 6.2%   | Normal activities                        | EPA           | Recurring  |                            |                               | Ongoing           |                 | High                     |
| 03/06/2015         | Trigger level reached | Other location (please specify) | 1. Minor                                    | Air      | Operational controls | CO2 levels above the trigger for perimeter wells, CO2 (% v/v): GW04: 3.3%, GW05: 2.9%, GW06: 2.6%, GW08: 2.3%, GW15: 2%, GW17: 3.3%, GW19A: 4.9%, GW20A: 5.6%, GW24: 7.3%, GW45A: 5.9%, GW48A: 6%, GW49A: 2.4%, GW51A: 1.8%, GW52B: 5.3%, GW56: 1.7%, GW57B: 3.9%, GW58: 1.6%, GW59A: 7.3%, GW79A: 4.1%, GW80: 2.4%, GW82: 3.8%, GW83: 3%, GW84: 2.6%                   | Normal activities                        | EPA           | Recurring  |                            |                               | Ongoing           |                 | High                     |





| WASTE SUMMARY   | Lic No: | W0015-01                            | Year                               | 2015 |
|---|---------|-------------------------------------|------------------------------------|------|
| <b>SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES</b> |         | <a href="#">PRTR facility logon</a> | dropdown list click to see options |      |

**SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES**

Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility?; (waste generated within your boundaries is to be captured through PRTR reporting)

If yes please enter details in table 1 below

2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information

3 Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information

Additional Information

|    |  |
|----|--|
| No |  |
|----|--|

|    |  |
|----|--|
| No |  |
|----|--|

|    |  |
|----|--|
| No |  |
|----|--|

**Table 1 Details of waste accepted onto your site for recovery, disposal or treatment (do not include wastes generated at your site, as these will have been reported in your PRTR workbook)**

| Licensed annual tonnage limit for your site (total tonnes/annum) | EWC code   | Source of waste accepted | Description of waste accepted<br>Please enter an accurate and detailed description which applies to relevant EWC code | Quantity of waste accepted in current reporting year (tonnes) | Quantity of waste accepted in previous reporting year (tonnes) | Reduction/ Increase over previous year +/- % | Reason for reduction/ increase from previous reporting year | Packaging Content (%) - only applies if the waste has a packaging component | Disposal/Recovery or treatment operation carried out at your site and the description of this operation | Quantity of waste remaining on site at the end of reporting year (tonnes) | Comments - |
|--|--|--------------------------|---|---|--|--|---|---|---|---|------------|
|  | <a href="#">European Waste Catalogue EWC codes</a> |                          | <a href="#">European Waste Catalogue EWC codes</a>  |   |  |  |   |   |   |   |            |
|  |  |                          |   |   |  |  |   |   |   |   |            |
|  |  |                          |   |   |  |  |   |   |   |   |            |
|  |  |                          |   |   |  |  |   |   |   |   |            |

**SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES**

4 Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite

|     |  |
|-----|--|
| Yes |  |
|     |  |

5 Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site

|     |  |
|-----|--|
| Yes |  |
| N/A |  |
| N/A |  |

6 Does your facility have relevant nuisance controls in place?

7 Do you have an odour management system in place for your facility? If no why?

8 Do you maintain a sludge register on site?

**SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY**

**Table 2 Waste type and tonnage-landfill only**

| Waste types permitted for disposal | Authorised/licenced annual intake for disposal (tpa) | Actual intake for disposal in reporting year (tpa) | Remaining licensed capacity at end of reporting year (m3) | Comments  |
|------------------------------------|--|--|---|---|
|                                    |  | 0  |   | Ballyogan has been closed to accepting waste since 2005 |
|                                    |  |  | 0   |   |
|                                    |  |  |   |   |
|                                    |  |  |   |   |

**Table 3 General information-Landfill only**

| Area ID | Date landfilling commenced | Date landfilling ceased | Currently landfilling | Private or Public Operated | Inert or non-hazardous | Predicted date to cease landfilling | Licence permits asbestos | Is there a separate cell for asbestos? | Accepted asbestos in reporting year | Total disposal area occupied by waste | Lined disposal area occupied by waste | Unlined area | Comments on liner type |
|---------|----------------------------|-------------------------|-----------------------|----------------------------|------------------------|-------------------------------------|--------------------------|--|-------------------------------------|---------------------------------------|---------------------------------------|--------------|------------------------|
|         |                            |                         |                       |                            |                        |                                     |                          |  |                                     | SELECT UNIT                           | SELECT UNIT                           | SELECT UNIT  |                        |
| Stage 1 | 1975                       | 2005                    | No                    | Public                     | Non Hazardous          | 2005                                | No                       |  |                                     | 177000                                | 0                                     | 177000       |                        |
| Stage 2 | 1975                       | 2005                    | No                    | Public                     | Non Hazardous          | 2005                                | No                       |  |                                     | 266000                                | 0                                     | 266000       |                        |

|                      |                  |            |
|----------------------|------------------|------------|
| <b>WASTE SUMMARY</b> | Lic No: W0015-01 | Year: 2015 |
|----------------------|------------------|------------|

**Table 4 Environmental monitoring-landfill only** [Landfill Manual-Monitoring Standards](#)

| Was meteorological monitoring in compliance with Landfill Directive (LD) standard in reporting year + | Was leachate monitored in compliance with LD standard in reporting year | Was Landfill Gas monitored in compliance with LD standard in reporting year | Was SW monitored in compliance with LD standard in reporting year | Have GW trigger levels been established | Were emission limit values agreed with the Agency (ELVs) | Was topography of the site surveyed in reporting year | Has the statement under S53(A)(5) of WMA been submitted in reporting year | Comments |
|---|---|---|---|---|--|---|---|----------|
| Yes   | Yes   | Yes   | Yes   | No                                      | Yes  | Yes   | No  |          |

+ please refer to Landfill Manual linked above for relevant Landfill Directive monitoring standards

**Table 5 Capping-Landfill only**

| Area uncapped* | Area with temporary cap | Area with final cap to LD Standard m <sup>2</sup> ha, a | Area capped other | Area with waste that should be permanently capped to date under licence | What materials are used in the cap         | Comments |
|----------------|-------------------------|---|-------------------|---|--|----------|
| SELECT UNIT    | SELECT UNIT             |   |                   |   |  |          |
| 0              | 0                       | 0   | 0                 | 443000  | Topsoil, Subsoil, Geocomposite, Clay liner |          |

\*please note this includes daily cover area

**Table 6 Leachate-Landfill only**

9 Is leachate from your site treated in a Waste Water Treatment Plant?

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

10 Is leachate released to surface water? If yes please complete leachate mass load information below

Leachate generated is pretreated on site at the Methane Stripping Plant

| Volume of leachate in reporting year(m <sup>3</sup> ) | Leachate (BOD) mass load (kg/annum) | Leachate (COD) mass load (kg/annum) | Leachate (NH <sub>4</sub> ) mass load (kg/annum) | Leachate (Chloride) mass load kg/annum | Leachate treatment on-site | Specify type of leachate treatment | Stripping Plant |
|---|-------------------------------------|-------------------------------------|--|--|----------------------------|------------------------------------|-----------------|
|   |                                     |                                     |  |  |                            |                                    |                 |

Please ensure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTR returns

**Table 7 Landfill Gas-Landfill only**

| Gas Captured&Treated by LFG System m <sup>3</sup> | Power generated (MW / KWh) | Used on-site or to national grid | Was surface emissions monitoring performed during the reporting year? | Comments |
|---|----------------------------|----------------------------------|---|----------|
| 3,673,824   |                            | National Grid                    | No  |          |

[Guidance to completing the PRTR workbook](#)

# PRTR Returns Workbook

Version 1.1.19

|                       |      |
|-----------------------|------|
| <b>REFERENCE YEAR</b> | 2015 |
|-----------------------|------|

## 1. FACILITY IDENTIFICATION

|                            |  |
|----------------------------|--|
| Parent Company Name        | Dun Laoghaire Rathdown County Council                |
| Facility Name              | Ballyogan Landfill Facility Ballyogan Recycling Park |
| PRTR Identification Number | W0015  |
| Licence Number             | W0015-01   |

|                     |  |
|---------------------|--|
| Classes of Activity |  |
| <b>No.</b>          | <b>class_name</b>                      |
|                     | - Refer to PRTR class activities below |

|   |  |
|---|--|
| Address 1                               | Ballyogan Road   |
| Address 2                               | Jamestown Townland   |
| Address 3                               | Carrickmines   |
| Address 4                               | Dublin 18  |
| Country                                 | Dublin   |
| Coordinates of Location                 | Ireland  |
| River Basin District                    | -6.19293 53.252  |
| NACE Code                               | IEEA   |
| Main Economic Activity                  | 3821   |
| AER Returns Contact Name                | Treatment and disposal of non-hazardous waste  |
| AER Returns Contact Email Address       | Seamus Moran   |
| AER Returns Contact Position            | smoran@DLRCOCO.ie  |
| AER Returns Contact Telephone Number    | Facility Manager   |
| AER Returns Contact Mobile Phone Number | 0866026888   |
| AER Returns Contact Fax Number          | 0866026888   |
| Production Volume                       |  |
| Production Volume Units                 | 0.0  |
| Number of Installations                 | 0  |
| Number of Operating Hours in Year       | 0  |
| Number of Employees                     | 2  |
| User Feedback/Comments                  | The stack emissions monitoring in December 2015 flagged an issue with the engine on site. This was the subject of INC1009453 which is now closed. The engine manufacturer returned to site and carried out stack testing. However it does not provide the correct information for the PRTR so the original results were PLease note on air tab that the total rated capacity of flare and engine is in m3 of landfill gas and not methane. T&T tab-volume to sewer is up in 2015. PC ran 363 days in 2015 whereas previously it only ran less than 50% of time so previous years were estimates based on patch data. |
| Web Address                             |  |

## 2. PRTR CLASS ACTIVITIES

| Activity Number | Activity Name   |
|-----------------|---|
| 5(d)            | Landfills   |
| 5(c)            | Installations for the disposal of non-hazardous waste |
| 5(d)            | Landfills   |
| 50.1            | General   |

## 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. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

|  |  |
|--|--|
| Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ? |  |
|--|--|

This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0015 | Facility Name : Ballyogan Landfill Facility Ballyogan Recycling Park | Filename : W0015\_2015.xls | Return Year : 2015 |

14/04/2016 11:09

**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

| RELEASES TO AIR |                           | Please enter all quantities in this section in KGs |               |                                    |                   |                        |                      |
|-----------------|---------------------------|--|---------------|------------------------------------|-------------------|------------------------|----------------------|
| POLLUTANT       |                           | METHOD   |               | QUANTITY                           |                   |                        |                      |
| No. Annex II    | Name                      | M/C/E  | Method Used   | engine 2                           |                   |                        |                      |
|                 |                           |  |               | Emission Point 1                   | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| 02              | Carbon monoxide (CO)      | M  | EN 15058:2004 | NDIR by Horiba PG-250              | 7970.0            | 7970.0                 | 0.0                  |
| 11              | Sulphur oxides (SOx/SO2)  | M  | ALT           | NDIR by Horiba PG-250              | 357.0             | 357.0                  | 0.0                  |
| 08              | Nitrogen oxides (NOx/NO2) | M  | EN 14792:2005 | Chemiluminescence by Horiba PG-250 | 8959.0            | 8959.0                 | 0.0                  |
| 01              | <b>Methane (CH4)</b>      | E  | OTH           | calculation                        | 0.0               | 0.0                    | 0.0                  |

\* 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 |      | Please enter all quantities in this section in KGs |             |                  |                   |                        |                      |
|-----------------|------|--|-------------|------------------|-------------------|------------------------|----------------------|
| 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 |
|                 |      |  |             |                  | 0.0               | 0.0                    | 0.0                  |

\* 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 |      | Please enter all quantities in this section in KGs |             |                  |                   |                        |                      |
|-----------------|------|--|-------------|------------------|-------------------|------------------------|----------------------|
| POLLUTANT       |      | METHOD   |             | QUANTITY         |                   |                        |                      |
| Pollutant No.   | Name | M/C/E  | Method Used | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
|                 |      |  |             |                  | 0.0               | 0.0                    | 0.0                  |

\* 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:   | Ballyogan Landfill Facility Ballyogan Recycling Park   |       |             |                                     |                                   |
| 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 |                                   |
|   | Total estimated methane generation (as per site model) | E     | OTH         | Gassim 2.5                          | N/A                               |
|   | Methane flared   | M     | OTH         | measured at flare                   | 1500.0 (Total Flaring Capacity)   |
|   | Methane utilised in engine/s                           | M     | OTH         | measured at engine                  | 1600.0 (Total Utilising Capacity) |
|   | Net methane emission (as reported in Section A above)  | C     | OTH         | calculated as predicted minu        | N/A                               |

**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

| RELEASES TO WATERS |      |             |             |                            | Please enter all quantities in this section in KGs |                   |                        |                      |
|--------------------|------|-------------|-------------|----------------------------|--|-------------------|------------------------|----------------------|
| POLLUTANT          |      | Method Used |             |                            | QUANTITY   |                   |                        |                      |
| No. Annex II       | 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                  |

\* 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 |      |             |             |                            | Please enter all quantities in this section in KGs |                   |                        |                      |
|--------------------|------|-------------|-------------|----------------------------|--|-------------------|------------------------|----------------------|
| POLLUTANT          |      | Method Used |             |                            | QUANTITY   |                   |                        |                      |
| No. Annex II       | 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                  |

\* 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 |      |             |             |                            | Please enter all quantities in this section in KGs |                   |                        |                      |
|--------------------|------|-------------|-------------|----------------------------|--|-------------------|------------------------|----------------------|
| POLLUTANT          |      | Method Used |             |                            | QUANTITY   |                   |                        |                      |
| 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                  |

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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : W0015 | Facility Name : Ballyogan Landfill Facility Ballyogan Recycling Park | Filename :

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**SECTION A : PRTR POLLUTANTS**

| OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER |      |        |             |                            | Please enter all quantities in this section in KGs |                   |                        |                      |
|--|------|--------|-------------|----------------------------|--|-------------------|------------------------|----------------------|
| 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                  |

\* 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 |      |        |             |                            | Please enter all quantities in this section in KGs |                   |                        |                      |
|--|------|--------|-------------|----------------------------|--|-------------------|------------------------|----------------------|
| POLLUTANT  |      | METHOD |             |                            | QUANTITY   |                   |                        |                      |
| 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                  |

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

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR# : W0015 | Facility Name : Ballyogan Landfill Facility Ballyogan Recycling Park | Filename : W0015\_2015.xls | Return Year : 2015 |

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SECTION A : PRTR POLLUTANTS

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

\* 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)

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

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



5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0015 | Facility Name : Ballyogan Landfill Facility Ballyogan Recycling Park | Filename : W0015\_2015.xls | Return Year : 2015 |

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Please enter all quantities on this sheet in Tonnes

0

| Transfer Destination | European Waste Code | Hazardous | Quantity (Tonnes per Year) | Description of Waste   | Waste Treatment Operation | Method Used |             | Location of Treatment | Haz Waste : Name and Licence/Permit No of Next Destination Facility<br>Non Haz Waste: Name and Licence/Permit No of Recover/Disposer | Haz Waste : Address of Next Destination Facility<br>Non Haz Waste: Address of Recover/Disposer | Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)        | Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY) |
|----------------------|---------------------|-----------|----------------------------|--|---------------------------|-------------|-------------|-----------------------|--|--|---|--|
|                      |                     |           |                            |  |                           | M/C/E       | Method Used |                       |  |  |   |  |
| Within the Country   | 08 03 99            | No        | 1.04                       | wastes not otherwise specified   | R12                       | M           | Weighed     | Offsite in Ireland    | Kildarson Printers ,WCPEX-DC-08-11-01  | 17 The Sycamores,Stradbrook Hill,Blackrock,Co. Dublin WCPEX-DC-08-11-01,Ireland                |   |  |
| Within the Country   | 15 01 01            | No        | 21.46                      | paper and cardboard packaging  | R12                       | M           | Weighed     | Offsite in Ireland    | Oxigen,W0208-01  | Ballymount Industrial Estate,Ballymount Road Lower,Ballymount,Dunlin 22,Ireland                |   |  |
| Within the Country   | 15 01 01            | No        | 162.32                     | paper and cardboard packaging  | R12                       | M           | Weighed     | Offsite in Ireland    | Thorntons Recycling ,WFP-DC-10-0021-02   | Road,Parkwest Business Park ,Dublin 12,Ireland   |   |  |
| Within the Country   | 15 01 01            | No        | 12.76                      | paper and cardboard packaging  | R12                       | M           | Weighed     | Offsite in Ireland    | Panda,W0039-02   | Ballymount Cross,Ballymount ,Dublin 22,39-2,Ireland  |   |  |
| Within the Country   | 15 01 01            | No        | 5.82                       | paper and cardboard packaging  | R12                       | M           | Weighed     | Offsite in Ireland    | Greenstar,W0053-03   | Fassaroe,Bray,..,Wicklow,Ireland   |   |  |
| Within the Country   | 15 01 02            | No        | 19.52                      | plastic packaging  | R12                       | M           | Weighed     | Offsite in Ireland    | Panda,W0039-02   | Ballymount Cross,Ballymount ,Dublin 22,39-2,Ireland  |   |  |
| Within the Country   | 15 01 02            | No        | 0.36                       | plastic packaging  | R12                       | M           | Weighed     | Offsite in Ireland    | Thorntons Recycling ,WFP-DC-10-0021-02   | Road,Parkwest Business Park ,Dublin 12,Ireland   |   |  |
| Within the Country   | 15 01 02            | No        | 21.74                      | plastic packaging  | R12                       | M           | Weighed     | Offsite in Ireland    | Oxigen,W0152-03  | Robinhood Industrial Estate,Ballymount,Dublin 22,..,Ireland                                    |   |  |
| Within the Country   | 15 01 02            | No        | 2.44                       | plastic packaging  | R12                       | M           | Weighed     | Offsite in Ireland    | Thorntons Recycling ,WFP-DC-10-0021-02   | Road,Parkwest Business Park ,Dublin 12,Ireland   |   |  |
| Within the Country   | 15 01 02            | No        | 20.98                      | plastic packaging  | R12                       | M           | Weighed     | Offsite in Ireland    | Panda,W0039-02   | Ballymount Cross,Ballymount ,Dublin 22,39-2,Ireland  |   |  |
| Within the Country   | 15 01 04            | No        | 6.6                        | metallic packaging   | R12                       | M           | Weighed     | Offsite in Ireland    | Panda,W0039-02   | Ballymount Cross,Ballymount ,Dublin 22,39-2,Ireland  |   |  |
| Within the Country   | 15 01 04            | No        | 1.06                       | metallic packaging   | R12                       | M           | Weighed     | Offsite in Ireland    | Oxigen,W0208-01  | Ballymount Industrial Estate,Ballymount Road Lower,Ballymount,Dunlin 22,Ireland                |   |  |
| Within the Country   | 15 01 04            | No        | 1.06                       | metallic packaging   | R12                       | M           | Weighed     | Offsite in Ireland    | Thorntons Recycling ,WFP-DC-10-0021-02   | Road,Parkwest Business Park ,Dublin 12,Ireland   |   |  |
| Within the Country   | 15 01 04            | No        | 1.94                       | metallic packaging   | R12                       | M           | Weighed     | Offsite in Ireland    | Oxigen,W0208-01  | Ballymount Industrial Estate,Ballymount Road Lower,Ballymount,Dunlin 22,Ireland                |   |  |
| Within the Country   | 15 01 04            | No        | 9.24                       | metallic packaging   | R12                       | M           | Weighed     | Offsite in Ireland    | Panda,W0039-02   | Ballymount Cross,Ballymount ,Dublin 22,39-2,Ireland  |   |  |
| Within the Country   | 15 01 05            | No        | 3.44                       | composite packaging  | R12                       | M           | Weighed     | Offsite in Ireland    | Panda,W0039-02   | Ballymount Cross,Ballymount ,Dublin 22,39-2,Ireland  |   |  |
| Within the Country   | 15 01 07            | No        | 44.64                      | glass packaging  | R12                       | M           | Weighed     | Offsite in Ireland    | Glassco,WCP-DC-10-1257-01  | Unit 4,Oberstown Ind Est,Naas,Co. Kildare,Ireland  |   |  |
| Within the Country   | 15 01 10            | Yes       | 1.86                       | packaging containing residues of or contaminated by dangerous substances | R12                       | M           | Weighed     | Offsite in Ireland    | SRCL,W0054-02  | SRCL Limited Unit 1 A ,Allied Industrial Estate Kylemore Road Ballyfermot,Dublin,10,Ireland    | SSRC Limited,W0054-02,Unit 1 A Allied Industrial Estate ,Kylemore Road Ballyfermot ,Dublin,10,Ireland | Unit 1 A Allied Industrial Estate ,Kylemore Road Ballyfermot ,Dublin,10,Ireland                |
| Within the Country   | 16 05 04            | Yes       | 5.08                       | halons) containing dangerous substances                                  | R12                       | M           | Weighed     | Offsite in Ireland    | Calor Gas,.  | Long mile Road,.,.,Dublin 12,Ireland   | Reuse,.,Reuse,.,.,.,Ireland   | .,.,.,.,Ireland  |

| Transfer Destination | European Waste Code | Hazardous | Quantity (Tonnes per Year) | Description of Waste  | Waste Treatment Operation | Method Used |                    | Location of Treatment | Haz Waste : Name and Licence/Permit No of Next Destination Facility<br>Non<br>Haz Waste: Name and Licence/Permit No of Recover/Disposer | Haz Waste : Address of Next Destination Facility<br>Non Haz Waste: Address of Recover/Disposer   | Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)   | Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)   |  |
|----------------------|---------------------|-----------|----------------------------|---|---------------------------|-------------|--------------------|-----------------------|---|--|--|--|--|
|                      |                     |           |                            |   |                           | M/C/E       | Method Used        |                       |   |  |  |  |  |
| Within the Country   | 16 05 04            | Yes       | 0.48                       | gases in pressure containers (including halons) containing dangerous substances | R12                       | M           | Weighed            | Offsite in Ireland    | Oxigen,W0208-01   | Ballymount Industrial Estate,Ballymount Road Lower,Ballymount,Dunlin 22,Ireland  | BOC GAS,,Reused by BOC,,,,,Ireland Hi-volt ,W0267-01,Ballyduff,Thurles,Co Tipperary,,Ireland KMK ,WCP-OY-08-0607-01,Cappincur ind est,Daingean Road,Tullamore,Co. Offaly,Ireland | Reused by BOC,,,,,Ireland  |  |
| Within the Country   | 16 06 01            | Yes       | 20.12                      | lead batteries  | R12                       | M           | Weighed            | Offsite in Ireland    | Silliot Hill IWMF,W0014-01  | Kilcullen,Co Kildare,,,,Ireland  | Tipperary,,Ireland KMK ,WCP-OY-08-0607-01,Cappincur ind est,Daingean Road,Tullamore,Co. Offaly,Ireland   | Ballyduff,Thurles,Co Tipperary,,Ireland  |  |
| Within the Country   | 16 06 01            | Yes       | 0.32                       | lead batteries  | R12                       | M           | Weighed            | Offsite in Ireland    | KMK,WCP-OY-08-0607-01   | Cappincur Ind Est,Daingean Road,Tullamore,Co Offaly,Ireland Unit 51,Henry Road,Parkwest Business Park ,Dublin 12,Ireland Ballymount Industrial Estate,Ballymount Road Lower,Ballymount,Dunlin 22,Ireland | Offaly,Ireland   | Cappincur ind est,Daingean Road,Tullamore,Co. Offaly,Ireland   |  |
| Within the Country   | 17 08 02            | No        | 6.98                       | gypsum-based construction materials other than those mentioned in 17 08 01      | R12                       | M           | Weighed            | Offsite in Ireland    | Thorntons Recycling ,WFP-DC-10-0021-02  | Thorntons Recycling ,WFP-DC-10-0021-02   | Unit 51,Henry Road,Parkwest Business Park ,Dublin 12,Ireland Ballymount Industrial Estate,Ballymount Road Lower,Ballymount,Dunlin 22,Ireland                                     |  |  |
| Within the Country   | 17 08 02            | No        | 7.68                       | gypsum-based construction materials other than those mentioned in 17 08 01      | R12                       | M           | Weighed            | Offsite in Ireland    | Oxigen,W0208-01   | Oxigen,W0208-01  | Shanganagh Waste Water Treatment Plant,,Dun Laoghaire,,Ireland Ballymount Industrial Estate,Ballymount Road Lower,Ballymount,Dunlin 22,Ireland                                   |  |  |
| Within the Country   | 19 07 03            | No        | 6300.507                   | landfill leachate other than those mentioned in 19 07 02                        | D8                        | M           | Volume Calculation | Offsite in Ireland    | Dun Laoghaire Rathdown County Council,D0038-01  | Dun Laoghaire Rathdown County Council,D0038-01   | Shanganagh Waste Water Treatment Plant,,Dun Laoghaire,,Ireland Ballymount Industrial Estate,Ballymount Road Lower,Ballymount,Dunlin 22,Ireland                                   |  |  |
| Within the Country   | 20 01 01            | No        | 3.36                       | paper and cardboard   | R12                       | M           | Weighed            | Offsite in Ireland    | Oxigen,W0208-01   | Oxigen,W0208-01  | Unit 51,Henry Road,Parkwest Business Park ,Dublin 12,Ireland   |  |  |
| Within the Country   | 20 01 01            | No        | 205.36                     | paper and cardboard   | R12                       | M           | Weighed            | Offsite in Ireland    | Thorntons Recycling ,WFP-DC-10-0021-02  | Thorntons Recycling ,WFP-DC-10-0021-02   | Unit 51,Henry Road,Parkwest Business Park ,Dublin 12,Ireland   |  |  |
| Within the Country   | 20 01 01            | No        | 61.82                      | paper and cardboard   | R12                       | M           | Weighed            | Offsite in Ireland    | Panda,W0039-02  | Panda,W0039-02   | Ballymount Cross,Ballymount ,Dublin 22,39-2,Ireland Fassaroe,Bray,,Wicklow,Ireland   |  |  |
| Within the Country   | 20 01 01            | No        | 4.08                       | paper and cardboard   | R12                       | M           | Weighed            | Offsite in Ireland    | Greenstar,W0053-03  | Greenstar,W0053-03   | Ballymount Cross,Ballymount ,Dublin 22,39-2,Ireland Fassaroe,Bray,,Wicklow,Ireland   |  |  |
| Within the Country   | 20 01 02            | No        | 20.04                      | glass   | R12                       | M           | Weighed            | Offsite in Ireland    | Oxigen,W0208-01   | Oxigen,W0208-01  | Ballymount Industrial Estate,Ballymount Road Lower,Ballymount,Dunlin 22,Ireland  |  |  |
| Within the Country   | 20 01 02            | No        | 0.72                       | glass   | R12                       | M           | Weighed            | Offsite in Ireland    | Thorntons Recycling ,WFP-DC-10-0021-02  | Thorntons Recycling ,WFP-DC-10-0021-02   | Unit 51,Henry Road,Parkwest Business Park ,Dublin 12,Ireland Glen Abbey Complex,Belgard Road,Tallaght,Dublin 24,Ireland  |  |  |
| Within the Country   | 20 01 11            | No        | 248.55                     | textiles  | R12                       | M           | Weighed            | Offsite in Ireland    | Textile Recycling,WPR-014/2   | Textile Recycling,WPR-014/2  |  |  |  |
| Within the Country   | 20 01 21            | Yes       | 1.02                       | fluorescent tubes and other mercury-containing waste                            | R12                       | M           | Weighed            | Offsite in Ireland    | Irish Lamp,WFP-KE-14-0072-01  | Irish Lamp,WFP-KE-14-0072-01   | Woodstock Ind Est,Athy,Co Kildare,,Ireland   | Irish Lamp,WFP-KE-14-0072-01,Woodstock ind est,Athy,Kildare,,Ireland KMK ,WCP-OY-08-0607-01,Cappincur ind est,Daingean Road,Tullamore,Co. Offaly,Ireland | Woodstock ind est,Athy,Kildare,,Ireland                      |
| Within the Country   | 20 01 21            | Yes       | 0.26                       | fluorescent tubes and other mercury-containing waste                            | R12                       | M           | Weighed            | Offsite in Ireland    | KMK,WCP-OY-08-0607-01   | KMK,WCP-OY-08-0607-01  | Cappincur Ind Est,Daingean Road,Tullamore,Co Offaly,Ireland  | est,Daingean Road,Tullamore,Co. Offaly,Ireland   | Cappincur ind est,Daingean Road,Tullamore,Co. Offaly,Ireland |
| Within the Country   | 20 01 25            | No        | 3.54                       | edible oil and fat  | R12                       | M           | Weighed            | Offsite in Ireland    | Mitchell Taylor Exports Ltd,WP 98119  | Mitchell Taylor Exports Ltd,WP 98119   | Newmarket,Dublin 8,,,,Ireland  |  |  |
| Within the Country   | 20 01 26            | Yes       | 10.04                      | oil and fat other than those mentioned in 20 01 25                              | R12                       | M           | Weighed            | Offsite in Ireland    | Enva Ireland Ltd.,W0184-01  | Atlas Environmental Ireland llimited,Clonminam Industrial Estate,Portlaoise,,Ireland   | Enva Ireland Ltd,W0184-01,Clonminham Industrial Estate,Portlaoise,,,,Ireland Rilta,W0192-03,Block 402 Grants Drive,Greenogue Business Park,Rathcoole,County Dublin,Ireland       | Clonminham Industrial Estate,Portlaoise,,,,Ireland   |  |
| Within the Country   | 20 01 27            | Yes       | 84.14                      | paint, inks, adhesives and resins containing dangerous substances               | R12                       | M           | Weighed            | Offsite in Ireland    | Silliot Hill IWMF,W0014-01  | Silliot Hill IWMF,W0014-01   | Kilcullen,Co Kildare,,,,Ireland  | Block 402 Grants Drive,Greenogue Business Park,Rathcoole,County Dublin,Ireland   |  |

| Transfer Destination | European Waste Code | Hazardous | Quantity (Tonnes per Year) | Description of Waste   | Waste Treatment Operation | Method Used |             | Location of Treatment | Haz Waste : Name and Licence/Permit No of Next Destination Facility<br>Non<br>Haz Waste: Name and Licence/Permit No of Recover/Disposer | Haz Waste : Address of Next Destination Facility<br>Non Haz Waste: Address of Recover/Disposer | Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)        | Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY) |
|----------------------|---------------------|-----------|----------------------------|--|---------------------------|-------------|-------------|-----------------------|---|--|---|--|
|                      |                     |           |                            |  |                           | M/C/E       | Method Used |                       |   |  |   |  |
| Within the Country   | 20 01 27            | Yes       | 24.18                      | paint, inks, adhesives and resins containing dangerous substances  | R12                       | M           | Weighed     | Offsite in Ireland    | SRCL,W0054-02   | SRCL Limited Unit 1 A ,Allied Industrial Estate Kylemore Road Ballyfermot,Dublin,10,Ireland    | SSRC Limited,W0054-02,Unit 1 A Allied Industrial Estate ,Kylemore Road Ballyfermot ,Dublin,10,Ireland | Unit 1 A Allied Industrial Estate ,Kylemore Road Ballyfermot ,Dublin,10,Ireland                |
| Within the Country   | 20 01 27            | Yes       | 6.22                       | paint, inks, adhesives and resins containing dangerous substances  | R12                       | M           | Weighed     | Offsite in Ireland    | Rediscovery Centre,...  | Unit 4 Shangan Court,Shangan Road,Ballymun,Dublin 9,Ireland                                    | ,Rediscovery Centre ,Unit 4 Shangan Coury,Shangan Road,Ballymun,Dublin 9,Ireland                      | Unit 4 Shangan Coury,Shangan Road,Ballymun,Dublin 9,Ireland                                    |
| Within the Country   | 20 01 33            | Yes       | 5.4                        | batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries | R12                       | M           | Weighed     | Offsite in Ireland    | KMK,WCP-OY-08-0607-01   | Cappincur Ind Est,Daingean Road,Tullamore,Co Offaly,Ireland                                    | KMK ,WCP-OY-08-0607-01,Cappincur ind est,Daingean Road,Tullamore,Co. Offaly,Ireland                   | Cappincur ind est,Daingean Road,Tullamore,Co. Offaly,Ireland                                   |
| Within the Country   | 20 01 35            | Yes       | 247.54                     | discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 23 containing hazardous components    | R12                       | M           | Weighed     | Offsite in Ireland    | Ratcliffe Transport,WCP-DC-08-1130-01   | Ballystrahan,St Margarets,Co Dublin,,Ireland   | Rehab,WFP-DS-10-0008-03 ,Unit 77 Broomhill Road,Tallaght,D24,D24,Ireland                              | Unit 77 Broomhill Road,Tallaght,D24,D24,Ireland  |
| Within the Country   | 20 01 36            | No        | 299.1                      | discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35                              | R12                       | M           | Weighed     | Offsite in Ireland    | KMK,WCP-OY-08-0607-01   | Cappincur Ind Est,Daingean Road,Tullamore,Co Offaly,Ireland                                    |   |  |
| Within the Country   | 20 01 36            | No        | 0.88                       | discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35                              | R12                       | M           | Weighed     | Offsite in Ireland    | KMK,WCP-OY-08-0607-01   | Cappincur Ind Est,Daingean Road,Tullamore,Co Offaly,Ireland                                    |   |  |
| Within the Country   | 20 01 38            | No        | 285.7                      | wood other than that mentioned in 20 01 37   | R12                       | M           | Weighed     | Offsite in Ireland    | Oxigen,W0208-01   | Ballymount Industrial Estate,Ballymount Road Lower,Ballymount,Dunlin 22,Ireland                |   |  |
| Within the Country   | 20 01 38            | No        | 212.04                     | wood other than that mentioned in 20 01 37   | R12                       | M           | Weighed     | Offsite in Ireland    | Thorntons Recycling ,WFP-DC-10-0021-02  | Unit 51, Henry Road,Parkwest Business Park ,Dublin 12,Ireland                                  |   |  |
| Within the Country   | 20 01 38            | No        | 3.88                       | wood other than that mentioned in 20 01 37   | R12                       | M           | Weighed     | Offsite in Ireland    | Oxigen,W0152-03   | Robinhood Industrial Estate,Ballymount,Dublin 22,,Ireland                                      |   |  |
| Within the Country   | 20 01 38            | No        | 2.92                       | wood other than that mentioned in 20 01 37   | R12                       | M           | Weighed     | Offsite in Ireland    | Silliot Hill IWMF,W0014-01  | Kildare,,,,Ireland   |   |  |
| Within the Country   | 20 01 39            | No        | 4.78                       | compact disks  | R12                       | M           | Weighed     | Offsite in Ireland    | Rehab Recycling,WFP-DS-10-0008-03   | Unit 77,Broomhill Road,Tallaght,Dublin 24,Ireland  |   |  |
| Within the Country   | 20 01 40            | No        | 6.34                       | bikes  | R4                        | M           | Weighed     | Offsite in Ireland    | Rothar,.  | Patrick Street,91,Dun Laoghaire ,Co. Dublin,Ireland  |   |  |
| Within the Country   | 20 01 40            | No        | 3.68                       | lawnmowers   | R4                        | M           | Weighed     | Offsite in Ireland    | Mower City,Mower City   | 153 Emmet Road,Inchicore,Dublin,Dublin 8,Ireland   |   |  |
| Within the Country   | 20 01 40            | No        | 237.52                     | metals   | R4                        | M           | Weighed     | Offsite in Ireland    | Oxigen,W0208-01   | Ballymount Industrial Estate,Ballymount Road Lower,Ballymount,Dunlin 22,Ireland                |   |  |
| Within the Country   | 20 01 40            | No        | 10.22                      | metals   | R4                        | M           | Weighed     | Offsite in Ireland    | Thorntons Recycling ,WFP-DC-10-0021-02  | Unit 51, Henry Road,Parkwest Business Park ,Dublin 12,Ireland                                  |   |  |
| Within the Country   | 20 02 01            | No        | 2127.43                    | biodegradable waste  | R3                        | M           | Weighed     | Offsite in Ireland    | Oxigen,W0208-01   | Ballymount Industrial Estate,Ballymount Road Lower,Ballymount,Dunlin 22,Ireland                |   |  |
| Within the Country   | 20 02 01            | No        | 21.18                      | biodegradable waste  | R3                        | M           | Weighed     | Offsite in Ireland    | Thorntons Recycling ,WFP-DC-10-0021-02  | Unit 51, Henry Road,Parkwest Business Park ,Dublin 12,Ireland                                  |   |  |

| Transfer Destination | European Waste Code | Hazardous | Quantity (Tonnes per Year) | Description of Waste  | Waste Treatment Operation | Method Used |             | Location of Treatment | Haz Waste : Name and Licence/Permit No of Next Destination Facility<br>Non-Haz Waste: Name and Licence/Permit No of Recoverer/Disposer | Haz Waste : Address of Next Destination Facility<br>Non-Haz Waste: Address of Recoverer/Disposer | Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)           | Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY) |
|----------------------|---------------------|-----------|----------------------------|-----------------------|---------------------------|-------------|-------------|-----------------------|--|--|--|--|
|                      |                     |           |                            |                       |                           | M/C/E       | Method Used |                       |  |  |  |  |
| Within the Country   | 20 02 01            | No        | 1035.0                     | biodegradable waste   | R3                        | M           | Weighed     | Offsite in Ireland    | Enrich Composting,WFP/MH/08/000 1/01   |  |  |  |
| Within the Country   | 20 02 02            | No        | 49.18                      | soil and stones       | R12                       | M           | Weighed     | Offsite in Ireland    | Oxigen,W0208-01  |  | Kilcock,,,,Meath,Ireland Ballymount Industrial Estate,Ballymount Road Lower,Ballymount,Dunlin 22,Ireland |  |
| Within the Country   | 20 02 02            | No        | 214.08                     | soil and stones       | R12                       | M           | Weighed     | Offsite in Ireland    | Thorntons Recycling ,WFP-DC-10-0021-02   |  | Unit 51,Henry Road,Parkwest Business Park ,Dublin 12,Ireland   |  |
| Within the Country   | 20 03 01            | No        | 251.7                      | mixed municipal waste | R12                       | M           | Weighed     | Offsite in Ireland    | Oxigen,W0152-03  |  | Robinhood Industrial Estate,Ballymount,Dublin 22,,Ireland  |  |
| Within the Country   | 20 03 01            | No        | 44.22                      | mixed municipal waste | R12                       | M           | Weighed     | Offsite in Ireland    | Silliot Hill IWMF,W0014-01   |  | Kilcullen,Co Kildare,,,,Ireland  |  |
| Within the Country   | 20 03 07            | No        | 68.82                      | bulky waste           | R12                       | M           | Weighed     | Offsite in Ireland    | Oxigen,W0208-01  |  | Ballymount Industrial Estate,Ballymount Road Lower,Ballymount,Dunlin 22,Ireland                          |  |
| Within the Country   | 20 03 07            | No        | 901.69                     | bulky waste           | R12                       | M           | Weighed     | Offsite in Ireland    | Thorntons Recycling ,WFP-DC-10-0021-02   |  | Unit 51,Henry Road,Parkwest Business Park ,Dublin 12,Ireland   |  |
| Within the Country   | 20 03 07            | No        | 3.46                       | bulky waste           | R12                       | M           | Weighed     | Offsite in Ireland    | Oxigen,W0152-03  |  | Robinhood Industrial Estate,Ballymount,Dublin 22,,Ireland  |  |
| Within the Country   | 20 03 07            | No        | 26.84                      | bulky waste           | R12                       | M           | Weighed     | Offsite in Ireland    | Silliot Hill IWMF,W0014-01   |  | Kilcullen,Co Kildare,,,,Ireland  |  |
| Within the Country   | 20 03 07            | No        | 52.22                      | bulky waste           | R12                       | M           | Weighed     | Offsite in Ireland    | Eco Mattress Recycling Ltd.,WFP-DC-12-0032-01  |  | Slaney Road ,133A,Glasnevin ,Dublin 11,Ireland   |  |
| Within the Country   | 15 01 07            | No        | 69.36                      | glass packaging       | R12                       | M           | Weighed     | Offsite in Ireland    | Glassco,WCP-DC-10-1257-01  |  | Unit 4,Oberstown Ind Est,Naas,Co. Kildare,Ireland  |  |
| Within the Country   | 15 01 07            | No        | 81.24                      | glass packaging       | R12                       | M           | Weighed     | Offsite in Ireland    | Glassco,WCP-DC-10-1257-01  |  | Unit 4,Oberstown Ind Est,Naas,Co. Kildare,Ireland  |  |

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

[Link to previous years waste data](#)

[Link to previous years waste summary data & percentage change](#)

[Link to Waste Guidance](#)