

**the city bin co**



# Annual Environmental Report

## January 2013

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**Annual Environmental Report**  
**Period 1st January 2012 to 31st December 2012**  
**The City Bin Co., Carrowmoneash**  
**Oranmore, Co Galway.**

Prepared to comply with  
Waste Licence Register No. 148-1.  
Condition 11.5.1, 11.5.2 and Schedule F

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## 1. Introduction

### 1.1. Reporting Period

This Annual Environmental Report (AER) is the seventh such document produced for The City Bin Co waste transfer station at Carrowmoneash, Oranmore, Co. Galway. Environmental monitoring and reporting are required under Schedules D and E of the facility's EPA Waste Licence (Licence Number 148-1). The reporting period for the AER is from 1st January 2012 until 31<sup>st</sup> December 2012. The AER is in follow up to the previous report, which was for the report period 1<sup>st</sup> January 2011 to 31<sup>st</sup> December 2011.

### 1.2. Location of Facility

The City Bin Co waste transfer station is located in the townland of Carrowmoneash, Oranmore, Co. Galway, approximately 140 metres east of the N18 (Galway – Limerick) National Primary Road, 420 metres north of the N6 (Galway – Dublin) Dual Carriageway and approximately 30 metres north of the Galway – Dublin railway line. Other facilities surrounding the waste transfer station include the New Galway Metal Company, Old Galway Metal Company yard, the old Steelforms site and the Galway Oil Depot Site. The Deerpark Industrial Estate and a number of commercial premises are located west of the waste transfer station, on the opposite the side of the N18.

## 2. Waste

### 2.1. Waste Management Activities

Waste management activities carried out at the facility are outlined in Tables 2.1.1 and 2.1.2.

**Table 2.1.1. Licensed Disposal Activities**

| Licensed Waste Disposal Activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996-2003 |  |
|---|--|
| <b>Class 11</b>   | Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.<br><br><i>This activity is limited to bulking and transfer of waste.</i>  |
| <b>Class 13</b>   | Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection on the premises where the waste concerned was produced.<br><br><i>This activity is limited to the storage of waste prior to bulking and transfer of waste.</i> |

**Table 2.1.2. Licensed Recovery Activities**

| Licensed Waste Disposal Activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996-2003 |   |
|---|---|
| <b>Class 2</b>  | Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes):<br><br><i>This activity is limited to recovery of paper, wood, plastic and organic waste.</i>   |
| <b>Class 3</b>  | Recycling or reclamation of metals and metal compounds.<br><br><i>This activity is limited to recovery of glass and construction and demolition waste.</i>  |
| <b>Class 4</b>  | Recycling or reclamation of other inorganic materials.<br><br><i>This activity is limited to recovery of glass and construction and demolition waste.</i>   |
| <b>Class 13</b>   | Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule. Other than temporary storage, pending collection, on the premises where such waste is produced.<br><br><i>This activity is limited to the storage of waste prior to recovery.</i> |

Incoming waste vehicles proceed to an onsite weighbridge where they are then weighed and assessed. Wastes are then tipped in the Waste and Recycling Transfer Building, where they are inspected for suitability, and reloaded if they are found to be unacceptable. Wastes are then sorted and loaded onto waste transfer vehicles prior to their removal from site.

## 2.2. Quantity and Composition of Wastes Received

Table 2.2.1. lists the incoming wastes that were received at the facility during the period 1<sup>st</sup> January 2012 to 31<sup>st</sup> December 2012.

**Table 2.2.1. Waste Received at the Facility from 1<sup>st</sup> January 2012 to 31<sup>st</sup> December 2012**

| Waste Type                        | Annual limits  | Quantity (tonnes) |
|-----------------------------------|----------------|-------------------|
| Household waste                   | 20,000         | 16,800            |
| Commercial waste                  | 20,000         | 14,012            |
| Construction and Demolition waste | 80,000         | 1968              |
| Industrial Non-hazardous wastes   | 10,000         | 0                 |
| <b>TOTAL</b>                      | <b>130,000</b> | <b>32,780</b>     |

## 2.3. Waste Sent Offsite for Recovery or Disposal

Tables 2.3.1 and 2.3.2. list the quantities of outgoing waste from the waste transfer station during the reporting period 1<sup>st</sup> January 2012 to 31<sup>st</sup> December 2012.

**Table 2.3.1. Waste Sent Offsite for Disposal from 1<sup>st</sup> January 2012 to 31<sup>st</sup> December 2012**

| Waste Type       | Quantity (tonnes) |
|------------------|-------------------|
| Household Waste  | 13,364            |
| Commercial Waste | 11,171            |
| Skip Waste       | 560               |
| <b>Total</b>     | <b>25,095</b>     |

**Table 2.3.2. Waste Sent Offsite for Recovery from 1<sup>st</sup> January 2012 to 31<sup>st</sup> December 2012**

| Waste Type                        | Quantity (tonnes) |
|-----------------------------------|-------------------|
| Household Waste                   | 3,412             |
| Commercial Waste                  | 2,670             |
| Construction and Demolition waste | 1,398             |
| Industrial Non-hazardous wastes   | 0                 |
| <b>Total</b>                      | <b>7,480</b>      |

Total waste sent offsite during 2012 therefore amounts to 32,575 tonnes, which is 205 tonnes less than the value for incoming waste. The difference arose from difficulties in transporting waste during the Christmas time. All the outstanding waste will be removed during January 2013.

## 2.4. Waste Previous year Received

Table 2.4.1. lists the incoming wastes that were received at the facility during the period 1<sup>st</sup> January 2011 to 31<sup>st</sup> December 2011.

**Table 2.4.1. Waste Received at the Facility from 1<sup>st</sup> January 2011 to 31<sup>st</sup> December 2011**

| Waste Type                        | Annual limits  | Quantity (tonnes) |
|-----------------------------------|----------------|-------------------|
| Household waste                   | 20,000         | 18,903            |
| Commercial waste                  | 20,000         | 13,597            |
| Construction and Demolition waste | 80,000         | 1,887             |
| Industrial Non-hazardous wastes   | 10,000         | 714               |
| <b>TOTAL</b>                      | <b>130,000</b> | <b>35,102</b>     |

## 2.5. Waste Sent Offsite for Recovery or Disposal for Previous Year

Tables 2.5.1 and 2.5.2. list the quantities of outgoing waste from the waste transfer station during the reporting period 1<sup>st</sup> January 2011 to 31<sup>st</sup> December 2011.

**Table 2.5.1. Waste Sent Offsite for Disposal from 1<sup>st</sup> January 2011 to 31<sup>st</sup> December 2011**

| Waste Type       | Quantity (tonnes) |
|------------------|-------------------|
| Household Waste  | 16,921            |
| Commercial Waste | 11,281            |
| <b>Total</b>     | <b>28,202</b>     |

**Table 2.5.2. Waste Sent Offsite for Recovery from 1<sup>st</sup> January 2011 to 31<sup>st</sup> December 2011**

| Waste Type                        | Quantity (tonnes) |
|-----------------------------------|-------------------|
| Household Waste                   | 2,066             |
| Commercial Waste                  | 2,315             |
| Construction and Demolition waste | 1,732             |
| Industrial Non-hazardous wastes   | 707               |
| <b>Total</b>                      | <b>6,820</b>      |

Total waste sent offsite during 2011 therefore amounts to 35,022 tonnes, which is 80 tonnes less than the value for incoming waste. The difference arose from difficulties in transporting waste during the Christmas time. All the outstanding waste will be removed during January 2012.

### 3. Summary Report on Emissions

#### 3.1. Monitoring Schedule

Table 3.1.1. presents the monitoring and reporting requirements in compliance with Waste License 148-1 Schedule D: Monitoring.

**Table 3.1.1. Monitoring Requirements, Schedule D of Waste Licence 148-1**

| Media           | Parameter          | Monitoring Frequency   | Reporting Frequency  |
|-----------------|--------------------|------------------------|----------------------|
| Integrity Test* | Levels             | Once every three years | Annually             |
| Surface Water   | Quality            | Quarterly              | Quarterly            |
| Groundwater**   | Quantity/ Quality  | Annually               | Quarterly            |
| Noise***        | Levels             | Once every two years   | Annually             |
| Dust            | Quantity           | Three times per year   | Three times per year |
| Air             | Total Particulates | Annually               | Annually             |

\*Integrity Test according with Condition 3.12.4 all inlets, outlets, vent pipes, valves and gauges must be within the bunded area. This confirmation shall be repeated at least once every three years thereafter and reported to the Agency on each occasion. Next integrity test will be in October 2015.

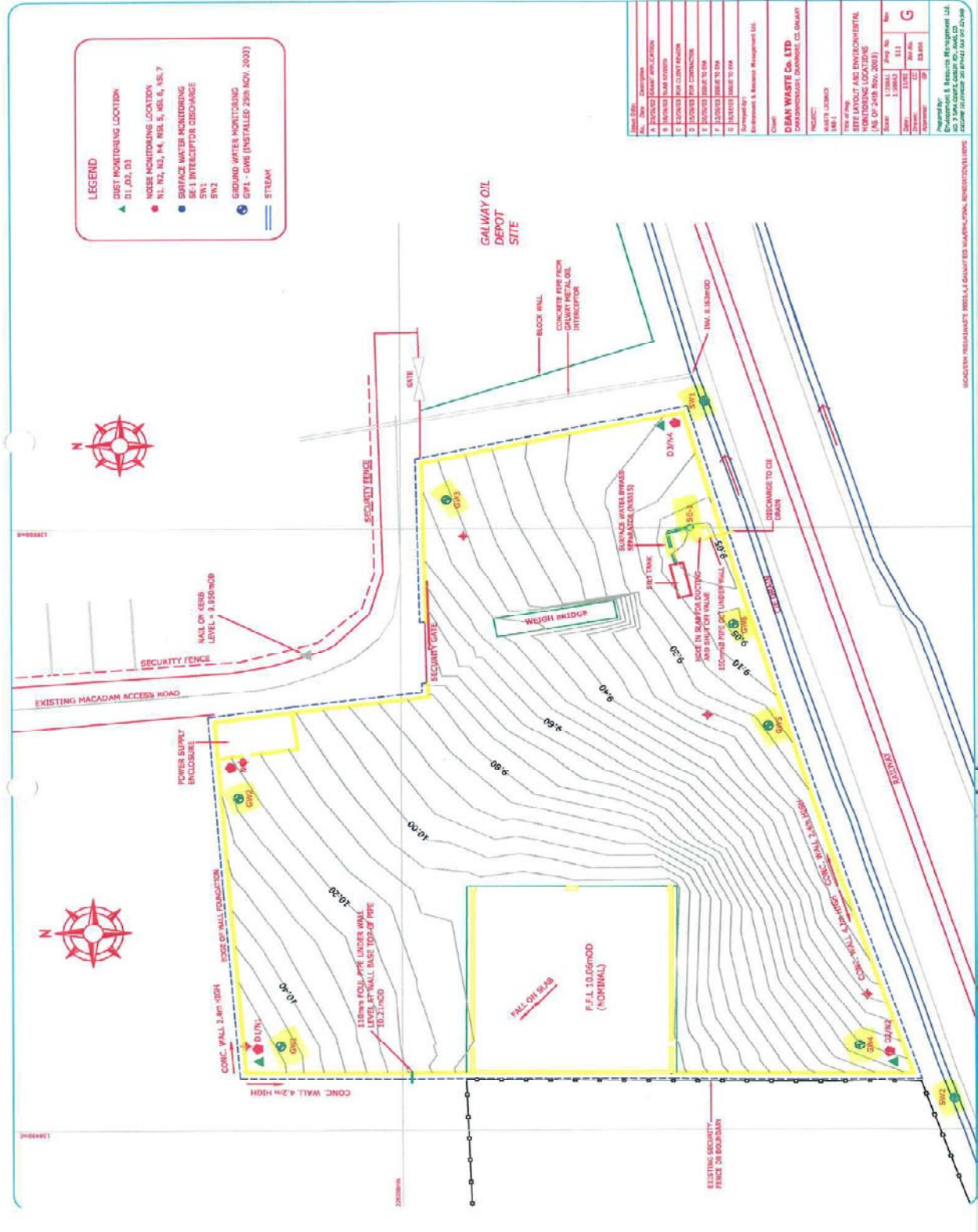
\*\*Further to a letter sent by the EPA on 23<sup>rd</sup> June 2005 (EPA Ref:148-1/GEN07), monitoring of groundwater at each of the six boreholes was reduced from quarterly to bi-annually.

\*\*Further to correspondence from 20<sup>th</sup> December 2010 (W0148-01 (11) AP24JG.docx) the monitoring frequency has been changed from bi –annually to annual monitoring.

\*\*\* Further to letter sent by EPA on 29<sup>th</sup> November 2010 (W0148-01 (10) AP22JG.docx), the frequency of noise monitoring has been changed to once every two years. Next noise monitoring will be done in 2014.

McCarthy Keville O’Sullivan Environmental Consultants are employed by The City Bin Co for overall management of the license monitoring program. McCarthy Keville O’Sullivan conduct all monitoring and are responsible for submitting the quarterly environmental report on The City Bin Co behalf.





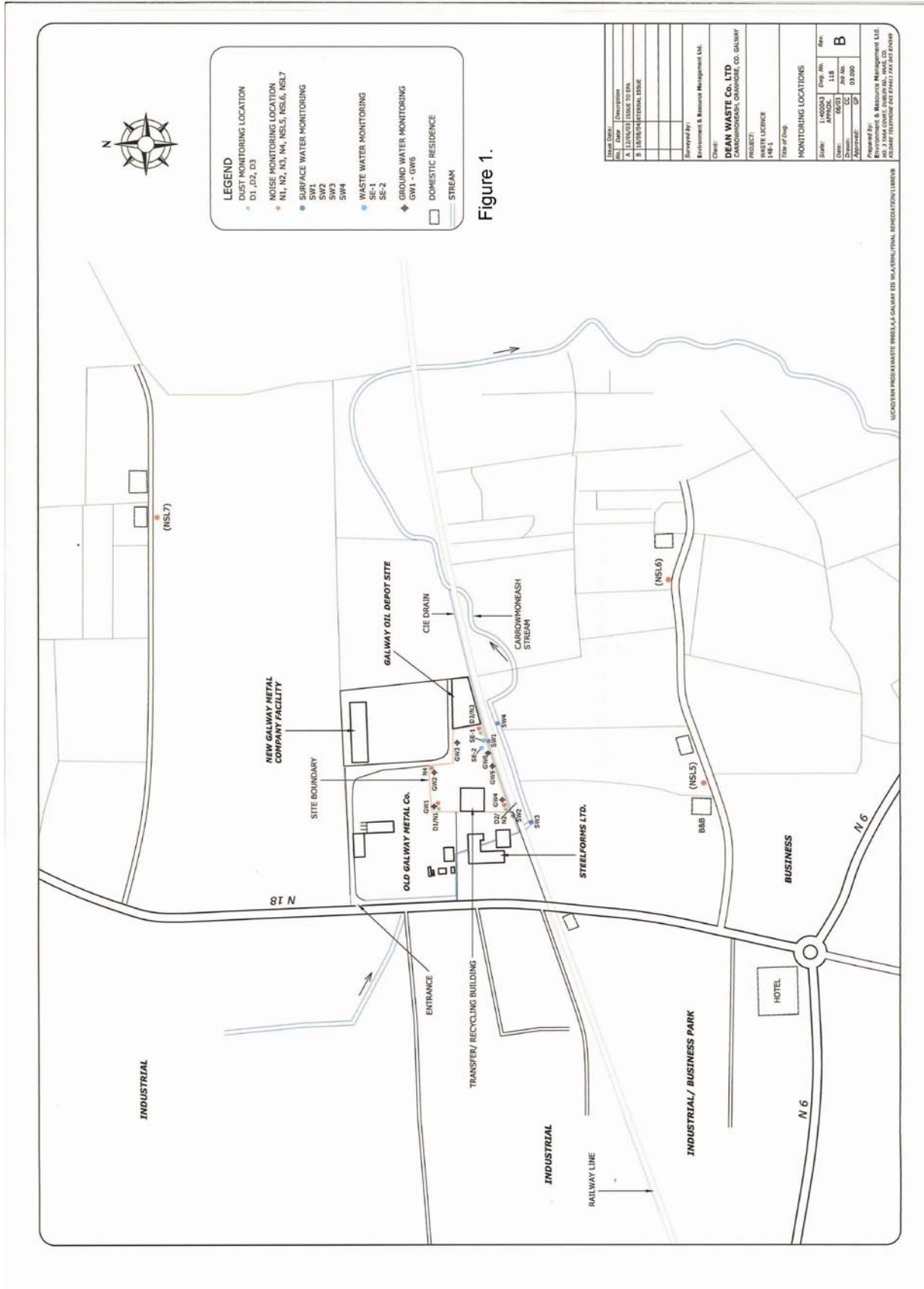


Figure 1.

### 3.2. Dust Monitoring

A summary of the Dust deposition rates for The City Bin Co Transfer Station during reporting period are presented in table 3.2.1.

**Table 3.2.1. Dust Deposition Rates**

| Sampling Point | Dust Deposition Rate (mg/m <sup>2</sup> /day) |         |         |
|----------------|---|---------|---------|
|                | Q1 2012                                       | Q2 2012 | Q3 2012 |
| D1             | 256   | 78      | 226     |
| D2             | 157   | 65      | 230     |
| D3             | 100   | 98      | 455*    |

\*High volume of algae visible in the jar during collection.

#### Summary of Results

Currently in Ireland there are no statutory limits for total dust deposition. The EPA however, recommends a maximum level of 350 mg/m<sup>2</sup>/day of dust deposition when measured according to TA Luft standard, which includes both soluble and insoluble matter (i.e. EPA compliance monitoring is based on the TA Luft Method). This limit value is stated in the Waste License for the facility, No. 148-1. The values presented in Table 3.2.1 show that total depositional dust levels measured at monitoring locations during the last year 2012 were significantly below the 350 mg/m<sup>2</sup>/day limit value except D3 sampling in Q3 2012. That exceedance level in the third quarter due to contamination by the high volume of algae visible in the jar during the collection.

### 3.3. Air Monitoring

A result of the Air monitoring for The City Bin Co Transfer Station during reporting period is present in table 3.3.1.

**Table 3.3.1. Average ambient PM 10 concentration in Q4 2012**

| Date  | Ambient PM10 conc. (ug/m <sup>3</sup> ) |
|---|---|
| Monitoring Location D1                        | 18                                      |
| Limit Value at 98.07 <sup>th</sup> percentile | 50 <sup>1,2</sup>                       |
| Limit value-annual mean                       | 20 <sup>3</sup>                         |

<sup>1</sup> Irish and EU ambient air standard (SI 271 of 2002 and 1999/30/EC) as a 24-hour average

<sup>2</sup> Maximum number of exceedence seven times in a one-year period

<sup>3</sup> Annual limit value for Stage 2 implementation

#### Summary of Results

Major sources of particulates include industrial/residential combustion and processing, energy generation, vehicular emissions and construction projects. PM10 monitoring in Ireland is limited to continuous monitoring stations operated by the Local Authorities and the Irish EPA, mainly in large urban centres. Average 24-hour ambient air concentrations monitored in the Phoenix Park and Whitehall respectively are in the range of 16 µg per cubic metre and 17 µg per cubic metre for an annual mean in 1999. The EPA measured an annual mean of 15 µg per cubic metre at a monitoring station located within the Phoenix Park. The dominant source of PM10 in that area appeared to be vehicle emissions, boilers (home heating and industrial heating), industrial processes and construction activities. The average ambient PM10 value recorded at the City Bin Company Ltd. facility was 18 µg per cubic metre, which was on average 57% lower than the Irish and EU ambient air quality limit value.

### 3.4. Noise Monitoring

Noise monitoring was carried out once every two years, as the frequency has been changed after letter sent by EPA on 29<sup>th</sup> November 2010. All noise monitoring locations were chosen to comply with the ISO 1996: *Acoustics – Description and Measurement of Environmental Noise Guidelines*. Monitoring locations N1, N2, N3 and N4 are located along the boundary walls of the site. Monitoring locations NSL5, NSL6 and NSL7 represent three other locations that can be considered as noise sensitive receptors.

**Table 3.4.1 Noise Monitoring Results from 1st January 2012 to 31st December 2012**

| Monitoring Location |                  | N1   | N2   | N3   | N4   | NSL5 | NSL6 | NSL7 |
|---------------------|------------------|------|------|------|------|------|------|------|
| Night time          |                  |      |      |      |      |      |      |      |
| Noise Level         | LAeq-15min dB(A) | 55.5 | 38.8 | 56.2 | 40.5 | 49.5 | 45.9 | 47.0 |
|                     | LA90-15min dB(A) | 36.8 | 35.4 | 47.7 | 34.5 | 43.1 | 42.2 | 41.9 |
|                     | LA10-15min dB(A) | 56.1 | 41.2 | 58.1 | 43.8 | 52.0 | 47.5 | 47.8 |
| Wind speed          | Average          | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.5  |
|                     | Maximum          | 0.4  | 0.5  | 0.9  | 0.3  | 0.3  | 0.0  | 0.9  |
| Daytime             |                  |      |      |      |      |      |      |      |
| Noise Level         | LAeq-15min dB(A) | 56.6 | 52.7 | 63.4 | 55.9 | 52.9 | 52.5 | 46.4 |
|                     | LA90-15min dB(A) | 52.6 | 48.0 | 57.4 | 52.7 | 50.8 | 50.3 | 43.8 |
|                     | LA10-15min dB(A) | 57.8 | 54.4 | 65.4 | 57.4 | 54.2 | 54.0 | 48.2 |
| Wind speed          | Maximum          | 1.7  | 1.2  | 1.5  | 0.1  | 1.1  | 1.6  | 1.2  |
|                     | Average          | 0.5  | 0.8  | 0.9  | 0.3  | 0.5  | 0.9  | 0.8  |

#### Summary of Results

Table 3.4.1. show noise monitoring results in fourth quarterly monitoring which took place on 19<sup>th</sup> October 2012 during the daytime and night time monitoring respectively.

The night-time noise emission limit of LAeq 45dB was exceeded at all noise sensitive locations during the night-time monitoring period. The daytime noise license threshold limit of LAeq 55dB was exceeded at location N1, N3 and N4 monitoring locations. At monitoring location N3, trucks entering the yard and pulling up at the weighbridge resulted in high readings. This is just normal activity to be expected at the site and of the area where the site is located. In general, exceedances are not however attributable entirely to activities within the waste transfer station. The high volumes of traffic on the nearby N6 and N18 National Primary Routes were noted to be the main contributor to ambient noise during all monitoring periods. The operation of other industrial facilities in the area and passing trains on the Galway – Dublin railway line also contribute to ambient noise in the area.

It can therefore be concluded that the contribution of waste transfer activities at The City Bin Co. Ltd. to environmental noise levels in the area is not of particular significance. In compliance with condition 6.6 of EPA license, activities onsite do not give rise to noise levels off-site, at noise sensitive locations, which exceed the sound pressure limits outlined in Table C1. No complaints in relation to noise levels from the waste transfer station were reported during 2012.

### 3.5. Surface Water Monitoring

Four surface water-sampling events were undertaken at three monitoring locations SW-1, SW-2 and SE-1 during the monitoring period. The ranges of values recorded for each parameter over the reporting period are shown in Table 3.5.1.

**Table 3.5.1 Surface Water Monitoring Results: Low - High Range 1<sup>st</sup> January 2012 to 31<sup>st</sup> December 2012.**

| Parameter               | Units | Monitoring Location |           |           | Waste Licence Trigger Limits for SE1 |
|-------------------------|-------|---------------------|-----------|-----------|--------------------------------------|
|                         |       | SW1                 | SW2       | SE1       |                                      |
| BOD                     | mg/l  | 5-187               | 2.62-214  | 2.44-46   | 25                                   |
| Total Suspended Solids  | mg/l  | 8-46                | 3-49      | 7-41.8    | 60                                   |
| Oils Fats and Greases   | mg/l  | <1-8.27             | <1        | <1-5.55   | -                                    |
| pH                      | -     | 6.75-7.75           | 6.73-8.37 | 7.53-8.27 | -                                    |
| Ammoniacal Nitrogen (N) | mg/l  | 0.742-4.64          | <0.2-1.93 | 0.229-1.8 | -                                    |
| TPH                     | mg/l  | 8.27                | <1        | 5.55      | -                                    |
| EPH Range >C10-C40      | µg/l  | 224-1960            | 62.4-105  | 146-472   | -                                    |
| Mineral Oil             | mg/l  | <0.01-<0.8          | <0.01     | <0.01     | 5                                    |

#### Summary of Results

The results of water monitoring at the facility indicated that results generally range within typical surface water quality concentrations for industrial areas, with the exception of the BOD result recorded at location SE1 during second quarter 2012. This result of 46 mg/l for SE1 exceeds the licence trigger limit of 25 mg/l. This exceedance may be due to the washing out of bins which has been carried out recently in the transfer station yard. This incident was reported in the incident report date 12<sup>th</sup> June 2012.

### 3.6. Groundwater Monitoring

Groundwater samples are taken on an annual basis at six monitoring locations, GW-1, GW-2, GW-3, GW4, GW5 and GW6, during the monitoring period. Groundwater sampling was carried out during the fourth quarter of 2012 at the waste transfer station. The ranges of results recorded during sampling are presented in Table 3.6.1.

**Table 3.6.1. Groundwater Monitoring Results: Low - High Range 1<sup>st</sup> January 2012 to 31<sup>st</sup> December 2012.**

| Parameter   | Units | GW1   | GW2   | GW3    | GW4   | GW5   | GW6   |
|---|-------|-------|-------|--------|-------|-------|-------|
| Diesel Range Organics                                 | ug/l  | 940   | 315   | 367000 | 201   | 33900 | 442   |
| Mineral Oil by GC                                     | ug/l  | 361   | 79.5  | 229000 | <10   | 24300 | 167   |
| Petrol Range Organics C <sub>5</sub> -C <sub>12</sub> | ug/l  | <50   | 567   | 483    | <50   | 450   | <50   |
| Benzene   | ug/l  | <7    | <7    | <7     | <7    | <7    | <7    |
| Toluene   | ug/l  | <4    | <4    | <4     | <4    | <4    | <4    |
| Ethylbenzene  | ug/l  | <5    | <5    | <5     | <5    | <5    | <5    |
| Total Xylene  | ug/l  | <3    | <3    | <3     | <3    | <3    | <3    |
| Conductivity (at 25 deg. °C)                          | mS/cm | 0.453 | 0.384 | 0.374  | 0.514 | 0.41  | 0.362 |

#### Summary of Results

Results show slight elevations in Diesel Range Organics (DRO), Mineral oil, Petrol Range Organics (PRO) in GW1 and GW2 and in particular GW3. These results show similar trends to those submitted in previous reports. Further to an EPA request, a report detailing this trend of elevations in PRO, DRO and Mineral oil in groundwater quality was sent to the EPA in September 2008. Conclusions showed that elevations above IGV values for groundwater have occurred in groundwater monitoring locations at the waste facility since it was monitored in Q3 2006 in particular at GW2, GW3 and GW6. Further to continuous monitoring conducted by McCarthy Keville O’Sullivan Ltd, these elevations were not a result of activities taking place within the transfer station grounds but from activities which occur external to the site. There is no activity onsite that could give rise to such activities

All other groundwater results are shown to be within normal low limits

### 3.7. Foul Water Transported Offsite

Foul water, which was the result of cleans up of drainage sump and oil and grit interceptor, was collected and disposed of safely by Wers Waste Ltd twice last year. The Wers Waste Ltd emptied and cleaned by the first time in 4<sup>th</sup> of September 4000 gallon of liquid (EWC 13 05 07) and second time preparing the Tank for Water Tightness test in 25<sup>th</sup> of October 2010 were collected 5000 gallon of liquid (EWC 13 05 07).

## 4. Resource and Energy Consumption

Table 4.1 present the resource and energy consumption at the facility during the reporting period 1<sup>st</sup> January 2012 to 31<sup>st</sup> December 2012.

**Table 4.1. Energy and Resource Consumption.**

| Resource/ Energy Use | Quantity | Unit  |
|----------------------|----------|-------|
| Electricity          | 56,050   | kWhr  |
| Diesel               | 9037     | Liter |

## 5. Report on Development Work

### 5.1. Works for the Preceding year

During the reporting period 1<sup>st</sup> January 2012 to 31<sup>st</sup> December 2012 the licensee has completed the development works as listed in Table 5.1.1.

**Table 5.1.1. Development Works between 1<sup>st</sup> January 2012 and 31<sup>st</sup> December 2012**

| Item | Works   | Licence Condition |
|------|---|-------------------|
| 1    | Update Dust extraction system for transfer station shed | 7.5.1             |
| 2    | Update the waste receptacles in the public area         | N/A               |
|      |   |                   |

### 5.2. Works for the Coming Year

The following is the proposed works for the reporting period 1<sup>st</sup> January 2013 to 31<sup>st</sup> December 2013 the licensee has currently planned as listed in Table 5.2.1.

**Table 5.2.1. Proposed Development Works between 1<sup>st</sup> January 2013 and 31<sup>st</sup> December 2013.**

| Item | Works   | Licence Condition |
|------|---|-------------------|
| 1    | Install a barrier system for public area                      | N/A               |
| 2    | Implement better security system on site                      | N/A               |
| 3    | Reduce energy usage   | N/A               |
| 4    | Implement recycling and composting campaign for our customers | N/A               |
| 5    | Put more plants and shrubs to make the yard greener.          | N/A               |
|      |   |                   |



## 6. Schedule of Environmental Targets and Objectives

### 6.1. Objectives and Targets for the Preceding Year

Table 6.1.1 below is the environmental objectives and targets set for 2012.

**Table 6.1.1 Objectives & Targets for 2012**

| Objective   | Target  | Responsibility   | Completion |
|---|---|------------------|------------|
| Energy Usage  | Reduce the amount of energy used by the transfer station by 5% i.e. electricity & diesel consumption<br><br><b>Method to achieved the target:</b><br>Inserting timing switches on all light fittings to control lighting patterns                                       | Facility Manager | Partial    |
| Site office Automation System   | To move to a more paperless system.<br><br><b>Method to achieved the target</b><br>On going to update systems to store all waste related documents  | Facility Manager | Partial    |
| Odour Management and abatement  | To develop an improved odour management system so that no complaints are received from either Public or EPA regarding Odour<br><br><b>Method to achieved the target</b><br>Keep EWC 200301 to a minimum over night by increasing out put from facility on a daily basis | Facility Manager | Partial    |
| Train All Staff to appropriate level for their position                               | Ensure all staff are fully trained in all relevant areas relating to their role, especially in areas relating to Environmental management and protection<br><br><b>Method to achieved the target</b><br>Personal one to one training with Facility Manager              | Facility Manager | Partial    |
| Establish Energy usage with a view to further reducing efficiency within the facility | Further reduce energy by fitting hi - spec energy efficient lights both internal and external on the facility<br><br><b>Method to achieved the target</b><br>Capital investment   | Facility Manager | Partial    |

## 6.2. Objectives and Targets for the Forthcoming Year

The objectives and targets listed in Table 6.2.1 have been set for 2013.

**Table 6.2.1 Objectives & Targets for 2013**

| Objective   | Target  | Responsibility   | Completion |
|---|---|------------------|------------|
| Energy Usage  | Reduce the amount of energy used by the transfer station by 4% i.e. electricity & diesel consumption<br><br><b>Method to achieved the target:</b><br>Inserting timing switches on all light fittings to control lighting patterns   | Facility Manager | Dec 2013   |
| Odour Management and abatement  | To develop an improved odour management system so that no complaints are received from either Public or EPA regarding Odour<br><br><b>Method to achieved the target</b><br>Keep EWC 200301 and EWC 200108 to a minimum over night by increasing out put from facility on a daily basis                          | Facility Manager | Dec 2013   |
| Train All Staff to appropriate level for their position                               | Ensure all staff are fully trained in all relevant areas relating to their role, especially in areas relating to Environmental management and protection<br><br><b>Method to achieved the target</b><br>Personal one to one training with Facility Manager and introduce all aspect of Health and Safety roles. | Facility Manager | Dec 2013   |
| Establish Energy usage with a view to further reducing efficiency within the facility | Further reduce energy by fitting hi - spec energy efficient lights both internal and external on the facility<br><br><b>Method to achieved the target</b><br>Capital investment   | Facility Manager | Dec 2013   |
| Litter Management and abatement   | To develop litter management and control system such that no complaints are received from either public or the EPA regarding window blow litter.<br><br><b>Method to achieved the target</b><br>Weekly mechanical yard sweeping.  | Facility Manager | Dec 2013   |

## 7. Description of Procedures Developed

A review of the site procedures was carried out, and amendments were made to the below procedure, please see Table 7.1

**Table 7.1 Procedures Developed in the Reporting Period**

| Procedure | Description                           |
|-----------|---------------------------------------|
| EP7001    | Transfer Station Management Structure |
|           |                                       |

## 8. Tanks, Pipeline, Drum and Bund Inspection

### 8.1. Tanks

Water tanks onsite were inspected by McCarthy Keville O’Sullivan Engineer Eoin McCarthy (B.Sc. Env.) and approved by Brian Keville B.Sc. (Env) on 25<sup>th</sup> and 26<sup>th</sup> of October 2012.

The visual inspection of the tank did not find any evidence of damage or wear in the tank that is likely to effect tank integrity.

The partial hydrostatic test undertaken to test the water tightness of the tank did not result in any drop in water level over the test period.

The tank is deemed to be watertight and the integrity of the tank intact.

The next inspection will be in October 2015.

### 8.2. Pipework

There are two pipe work systems at the facility; one collecting rainwater from the roof and carrying the water to the water tanks on site and one connecting the silt interceptor to the hydrocarbon interceptor which leads to the SE1 sump and then to the outer surface water drain. The rainwater pipeline is inspected on a weekly basis and was visually inspected before this AER was completed. It was found to be fully intact and working efficiently. The silt interceptor/hydrocarbon interceptor pipeline is located underground under a concrete slab. The pipe was inspected before the AER was completed and is transmitting water as intended. The flow of water in the SE-1 sump, which is pumped into the external surface water drain, was inspected and found to be flowing freely.

### 8.3. Bunds and Drums

There are no bunds or drums present at the facility as no fuels or hazardous material are stored onsite. No testing or inspections of bunds and drums was therefore required.

## **9. Report Incident and Complaint Summaries**

Condition 11.2 of Waste Licence Register No. 148-1 requires a notification of the Agency in case an incident has, or may have, taken place at the facility. Incidents are described in Condition 1.7 of the License.

There was one incident, which gave reason to submit to Agency incident report during the reporting period.

The incident was in relation to exceedance of the waste trigger limits for BOD on the 12<sup>th</sup> June 2012 in the SE1 sampling location in the cae surface water drain. The BOD level has since return to normal levels.

The agency was notified of this incident and no formal complaints were made in relation to the incident. There was no complaint received regarding activities at the facility during the reporting period.

## **10. Review of Nuisance Controls**

The Licensee undertakes a weekly inspection of the facility and its immediate surroundings for nuisance caused by vermin, birds, flies, mud, dust and odours. The Facility Manager carries out these inspections. A written report of each inspection is filed and kept at the facility office.

### **10.1. Nuisance Caused by Vermin**

Vermin control is carried out on the site by L.G Vaghaun & Sons (Rathfarnham, Dublin 16). This monitoring included regular site assessments and the maintenance (examining and replenishing) of bait boxes placed and fixed locations around the site. A minimum of eight site visits is undertaken annually.

### **10.2. Nuisance Caused by Birds**

Two model MP3 Ultra Sonic Pest Scarers were installed in the warehouse building above the floor area to “cover” the entire floor space. The Ultra Sonic Pest Scarers deter pests, in particular birds, from the warehouse. Birds have not been reported as being a nuisance at the transfer station.

### **10.3. Nuisance Caused by Mud and Dust**

Monitoring for dust emissions on the site is carried out three times per year, as detailed in Section 3.2 of this report. Dust emission monitoring at the facility indicates that dust emissions levels are below the emissions limits set out in the Schedule C of Waste License 148-1 and are therefore not considered a nuisance.

### **10.4. Nuisance Caused by Odours**

Due to the nature of waste accepted at the facility, the low residence time of the waste and operational practice employed at the facility, the potential for odour to become a nuisance in the local environment is considered to be minimal. However, there was one complaint last year regarding odour. New targets put in place to manage odour been implemented so that no complaints are received from the public in the future.

## 11. Financial Provision

The Waste Licence holder annually provides the Environmental Protection Agency with a minimum of €7,071.86 for services they provide in relation to overseeing the Waste License. Fees have been paid to EPA since the commencement of waste acceptance activities at the facility.

Cost estimates have been made regarding the potential environmental liability of operation and decommissioning. To cover any environmental pollution events and pursuant to Condition 12.2.2 of Waste License 148-1, the Licensee has taken out an Environmental Site Liability Insurance Policy with Chubb Insurance Company of Europe.

To cover the costs of closure and decommissioning, which has been estimated at €70,000, the Licensee proposes to use operating capital and/or overdraft facilities available to the Licensee.

## 12. Transfer Station Management and Staffing Structure

The Facility Manager at the site is Mr. Donagh Killilea. There are also two Deputy Facility Managers: Mr. James Browne and Mrs. Katarzyna (Kate) Rybczynska.

Mr. Ciaran Canney is the Assistant Facility Manager.

## 13. Decommissioning Plan

According with Environmental Agency request from the Audit report in 29<sup>th</sup> September 2010 Ref: (148-1)10SII2JG the Decommissioning Plan has been written and submitted to the Agency. The Decommissioning Plan will be reviewed annual accordance with licence.

The summary results for the Decommissioning Plan present the table 13.1.

**Table 13.1: Summary Decommissioning Plan Table.**

| Item   | Frequency             | Cost     |
|--|-----------------------|----------|
| Abatement Installation, Control and Monitoring             |                       |          |
| Abatement  | N/A                   | -        |
| Control  | Annual                | €2,200   |
| Monitoring   | Annual (Cost)         | €6,250*  |
|  |                       | €7,750** |
| Closure and Remediation of the site                        |                       |          |
| Closure and Decommissioning of facility                    | Once-off (on closure) | €70,000  |
| Clean-up following a plausible accident/incident           |                       |          |
| Clean-up after pollution incident                          | Infrequent            | €5,622   |
| Long-term aftercare for residual environmental liabilities |                       |          |
| N/a  | N/a                   | -        |

\*Excluding Noise Monitoring

\*\* Including Noise Monitoring

#### 14. Programme for Public Information

A facility notice board has been erected which indicates contact details for the licensee and where the public may get environmental information. The management of the company would be pleased to meet with or contact members of the public to address any legitimate issues that are raised in writing.





[Guidance to completing the PRTR workbook](#)

## AER Returns Workbook

Version 1.1.15

|                       |      |
|-----------------------|------|
| <b>REFERENCE YEAR</b> | 2012 |
|-----------------------|------|

### 1. FACILITY IDENTIFICATION

|                            |                          |
|----------------------------|--------------------------|
| Parent Company Name        | City Bin Company Limited |
| Facility Name              | City Bin Co Ltd          |
| PRTR Identification Number | W0148                    |
| Licence Number             | W0148-01                 |

| Waste or IPPC Classes of Activity              |   |
|--|---|
| No.  | class name  |
| 3.11   | Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.  |
| 3.13   | Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.     |
| 4.13   | Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced. |
| 4.2  | Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).   |
| 4.3  | Recycling or reclamation of metals and metal compounds.   |
| 4.4  | Recycling or reclamation of other inorganic materials.  |
| Address 1                                      | Townlands of Carrowmoneash  |
| Address 2                                      | Oranmore  |
| Address 3                                      | County Galway   |
| Address 4                                      |   |
| Country  | Galway  |
| Country  | Ireland   |
| Coordinates of Location                        | -8.92349 53.2808  |
| River Basin District                           | IEWE  |
| NACE Code                                      | 3821  |
| Main Economic Activity                         | Treatment and disposal of non-hazardous waste   |
| <b>AER Returns Contact Name</b>                | Niall Killilea  |
| <b>AER Returns Contact Email Address</b>       | info@citybin.com  |
| <b>AER Returns Contact Position</b>            | Managing Director   |
| <b>AER Returns Contact Telephone Number</b>    | 091787800   |
| <b>AER Returns Contact Mobile Phone Number</b> |   |
| <b>AER Returns Contact Fax Number</b>          | 091787879   |
| Production Volume                              | 0.0   |
| Production Volume Units                        |   |
| Number of Installations                        | 0   |
| Number of Operating Hours in Year              | 23500   |
| Number of Employees                            | 70  |
| User Feedback/Comments                         |   |
| Web Address                                    | www.citybin.com   |

### 2. PRTR CLASS ACTIVITIES

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

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

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

### 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)? | No |
|---|----|

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# : W0148 | Facility Name : City Bin Co Ltd | Filename : W0148\_2012(1).xls | Return Year : 2012 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

| POLLUTANT   |      | METHOD |             |                            | QUANTITY         |                   |                        |                      |
|-------------|------|--------|-------------|----------------------------|------------------|-------------------|------------------------|----------------------|
| No. Annex I | 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                  |

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

SECTION B : REMAINING PRTR POLLUTANTS

| POLLUTANT   |      | METHOD |             |                            | QUANTITY         |                   |                        |                      |
|-------------|------|--------|-------------|----------------------------|------------------|-------------------|------------------------|----------------------|
| No. Annex I | 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                  |

\* 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)

| POLLUTANT     |      | METHOD |             |                            | 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                  |

\* 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:   | City Bin Co Ltd  |       |             |                                     |
| 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) | 0.0   |             | N/A                                 |
|   | Methane flared   | 0.0   |             | 0.0 (Total Flaring Capacity)        |
|   | Methane utilised in engine/s                           | 0.0   |             | 0.0 (Total Utilising Capacity)      |
|   | Net methane emission (as reported in Section A above)  | 0.0   |             | N/A                                 |



4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR#: W0148 | Facility Name : City Bin Co Ltd | Filename : W0148\_2012(1).xls | Return Year : 2012 |

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**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          |      | M/C/E | Method Used |                            | QUANTITY   |                   |                        |                      |
| No. Annex II       | Name |       | 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          |      | M/C/E | Method Used |                            | QUANTITY   |                   |                        |                      |
| No. Annex II       | Name |       | 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          |      | M/C/E | Method Used |                            | QUANTITY   |                   |                        |                      |
| Pollutant No.      | Name |       | 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#: W0148 | Facility Name : City Bin Co Ltd | Filename : W0148\_2012(1).xls | Return Year : 2

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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#: W0148 | Facility Name : City Bin Co Ltd | Filename : W0148\_2012(1).xls | Return Year : 2012 |

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0

SECTION A : PRTR POLLUTANTS

| POLLUTANT         |      | METHOD |             |                            | Please enter all quantities in this section in KGs |                   |                        |
|-------------------|------|--------|-------------|----------------------------|--|-------------------|------------------------|
| RELEASERS TO LAND |      | METHOD |             |                            | QUANTITY   |                   |                        |
| No. Annex II      | Name | M/C/E  | Method Code | Designation or Description | Emission Point 1                                   | T (Total) KG/Year | A (Accidental) KG/Year |
|                   |      |        |             |                            | 0.0  | 0.0               | 0.0                    |

\* 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 |             |                            | Please enter all quantities in this section in KGs |                   |                        |
|-------------------|------|--------|-------------|----------------------------|--|-------------------|------------------------|
| RELEASERS TO LAND |      | METHOD |             |                            | QUANTITY   |                   |                        |
| Pollutant No.     | Name | M/C/E  | Method Code | Designation or Description | Emission Point 1                                   | T (Total) KG/Year | A (Accidental) KG/Year |
|                   |      |        |             |                            | 0.0  | 0.0               | 0.0                    |

\* 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#: W0148 | Facility Name : City Bin Co Ltd | Filename : W0148\_2012(1).xls | Return Year : 2012 |

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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 | Haz Waste : Address of Next Destination Facility                  | 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 |                       | Haz Waste : Name and Licence/Permit No of Recover/Disposer          | Non Haz Waste: Address of Recover/Disposer                        |  |  |
| Within the Country   | 15 01 06            | No        | 3161.36                    | mixed packaging                         | R5                        | M           | Weighed     | Offsite in Ireland    | Wers Waste Ltd,Licence WR/84  | Tuam Business Park,Weir Road Tuam ,Co Galway,0,Ireland Ballinagun |  |  |
| Within the Country   | 15 01 06            | No        | 315.16                     | mixed packaging                         | R5                        | M           | Weighed     | Offsite in Ireland    | Clean Ireland Recycling Ltd ,No 002/07/WPR/CI                       | West,Cree,Kilrush,Co Clare,Ireland                                |  |  |
| Within the Country   | 20 01 01            | No        | 163.98                     | paper and cardboard                     | R5                        | M           | Weighed     | Offsite in Ireland    | Dillon Waste Recycling,WFP KY 10-001                                | The Kerries,Tralee,Co Kerry,0,Ireland                             |  |  |
| Within the Country   | 20 03 07            | No        | 1392.26                    | bulky waste                             | R5                        | M           | Weighed     | Offsite in Ireland    | Clonmel Waste Disposal Ltd,WFP008-02                                | Lawlesstown,Clonmel,Co Tipperary,0,Ireland                        |  |  |
| Within the Country   | 20 01 08            | No        | 730.58                     | biodegradable kitchen and canteen waste | R3                        | M           | Weighed     | Offsite in Ireland    | Millenium Composting System,W0270-01                                | ,Tipperary,Ireland  |  |  |
| Within the Country   | 20 01 08            | No        | 1711.06                    | biodegradable kitchen and canteen waste | R3                        | M           | Weighed     | Offsite in Ireland    | O'Toole Composting Ltd,WFP-CW-10-0003-01                            | Ballinrane,Carlow,Co. Carlow,0,Ireland                            |  |  |
| Within the Country   | 15 01 03            | No        | 5.8                        | wooden packaging                        | R5                        | M           | Weighed     | Offsite in Ireland    | Connaught Timber Products,CW 64                                     | Loughrea Road,Tynagh,Co. Galway, ,Ireland                         |  |  |
| Within the Country   | 20 03 01            | No        | 15484.82                   | mixed municipal waste                   | D1                        | M           | Weighed     | Offsite in Ireland    | Bord na Móna Environmental Ltd,W0201-02                             | Main Street,Newbridge,Co. Kildare,0,Ireland                       |  |  |
| Within the Country   | 20 03 01            | No        | 9610.18                    | mixed municipal waste                   | D1                        | M           | Weighed     | Offsite in Ireland    | Greenstar Holdings Limited,W0178-02                                 | Killagh More,Ballinasloe,Co. Galway,Galway,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](#)