

the city bin co



Annual Environmental Report

March 2014

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Annual Environmental Report
Period 1st January 2013 to 31st December 2013
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 2013 until 31st December 2013. The AER is in follow up to the previous report, which was for the report period 1st January 2012 to 31st December 2012.

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 side of the N18.

2. Waste

2.1. Previous Waste Management Activities

Waste management activities carried out at the facility before the Agency requested review the new First Schedule of the EPA Acts 1992 to 2013 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	
Class 11	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule. <i>This activity is limited to bulking and transfer of waste.</i>
Class 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 was produced. <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	
Class 2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes): <i>This activity is limited to recovery of paper, wood, plastic and organic waste.</i>
Class 3	Recycling or reclamation of metals and metal compounds. <i>This activity is limited to recovery of glass and construction and demolition waste.</i>
Class 4	Recycling or reclamation of other inorganic materials. <i>This activity is limited to recovery of glass and construction and demolition waste.</i>
Class 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. <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 1st January 2013 to 31st December 2013.

Table 2.2.1. Waste Received at the Facility from 1st January 2013 to 31st December 2013

Waste Type	Annual limits	Quantity (tonnes)
Household waste	20,000	9,591
Commercial waste	20,000	11,374
Construction and Demolition waste	80,000	729
Industrial Non-hazardous wastes	10,000	0
TOTAL	130,000	21,693

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 1st January 2013 to 31st December 2013.

Table 2.3.1. Waste Sent Offsite for Disposal from 1st January 2013 to 31st December 2013

Waste Type	Quantity (tonnes)
Household Waste	7,505
Commercial Waste	9,302
Total	16,807

Table 2.3.2. Waste Sent Offsite for Recovery from 1st January 2013 to 31st December 2013

Waste Type	Quantity (tonnes)
Household Waste	2,051
Commercial Waste	1,888
Construction and Demolition waste	485
Industrial Non-hazardous wastes	-
Total	4,424

Total waste sent offsite during 2013 therefore amounts to 21,231 tonnes, which is 462 tonnes less than the value for incoming waste. The difference arose from difficulties in transporting waste during the Christmas time. All the outstanding waste was removed during January 2014. We reduced material volumes versus the previous year due to less third party material.

2.4. Waste Previous year Received

Table 2.4.1. Lists the incoming wastes that were received at the facility during the period 1st January 2012 to 31st December 2012.

Table 2.4.1. Waste Received at the Facility from 1st January 2012 to 31st 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
TOTAL	130,000	32,780

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 1st January 2012 to 31st December 2012.

Table 2.5.1. Waste Sent Offsite for Disposal from 1st January 2012 to 31st December 2012

Waste Type	Quantity (tonnes)
Household Waste	13,364
Commercial Waste	11,171
Skip Waste	560
Total	28,202

Table 2.5.2. Waste Sent Offsite for Recovery from 1st January 2012 to 31st 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
Total	7,480

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.

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 for 12 month (Q2 2013-Q1 2014)	Quarterly
Groundwater**/****	Quantity/ Quality	Quarterly for 12 month (Q2 2013-Q1 2014)	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.

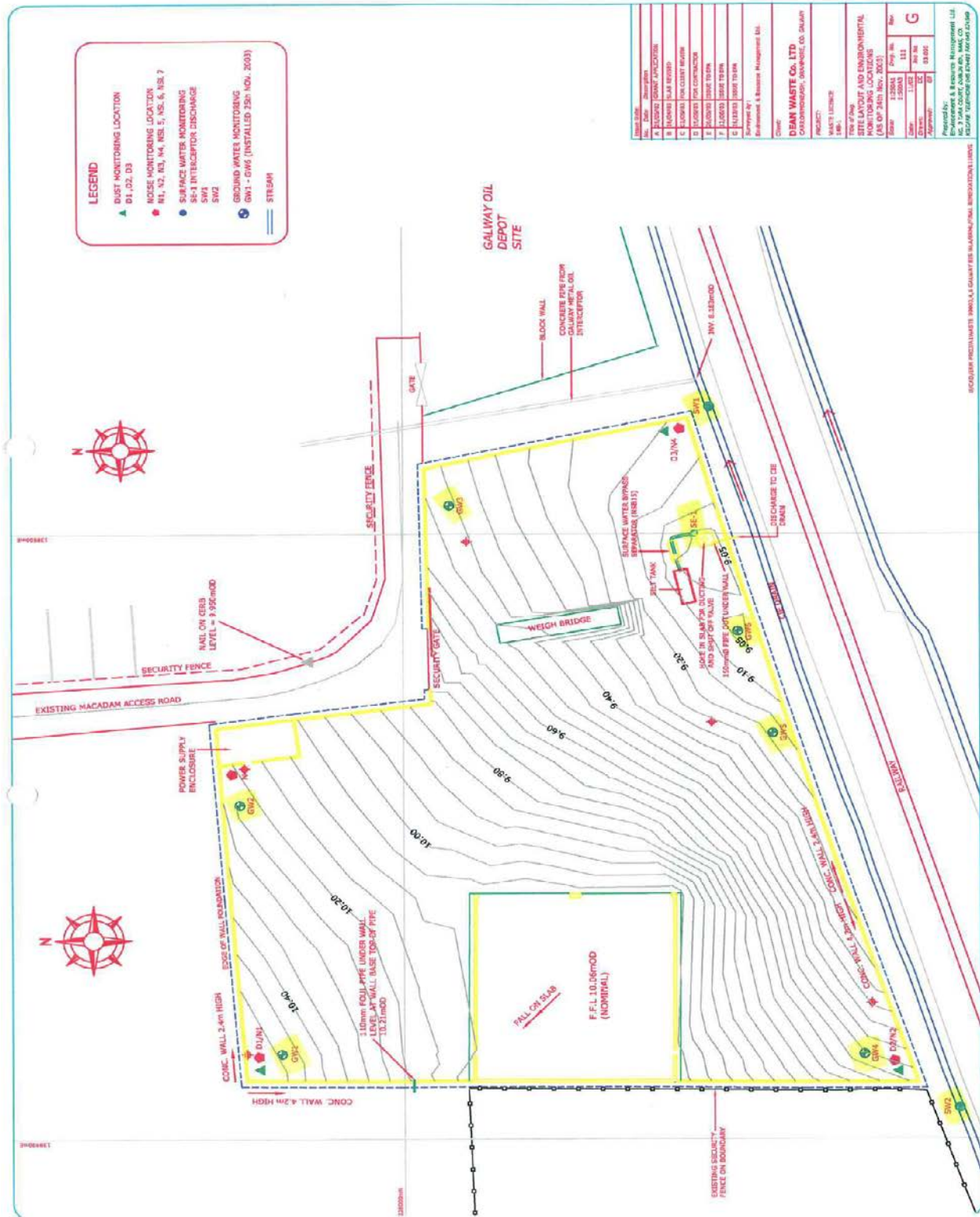
**Further to a letter sent by the EPA on 23rd June 2005 (EPA Ref:148-1/GEN07), monitoring of groundwater at each of the six boreholes was reduced from quarterly to bi-annually.

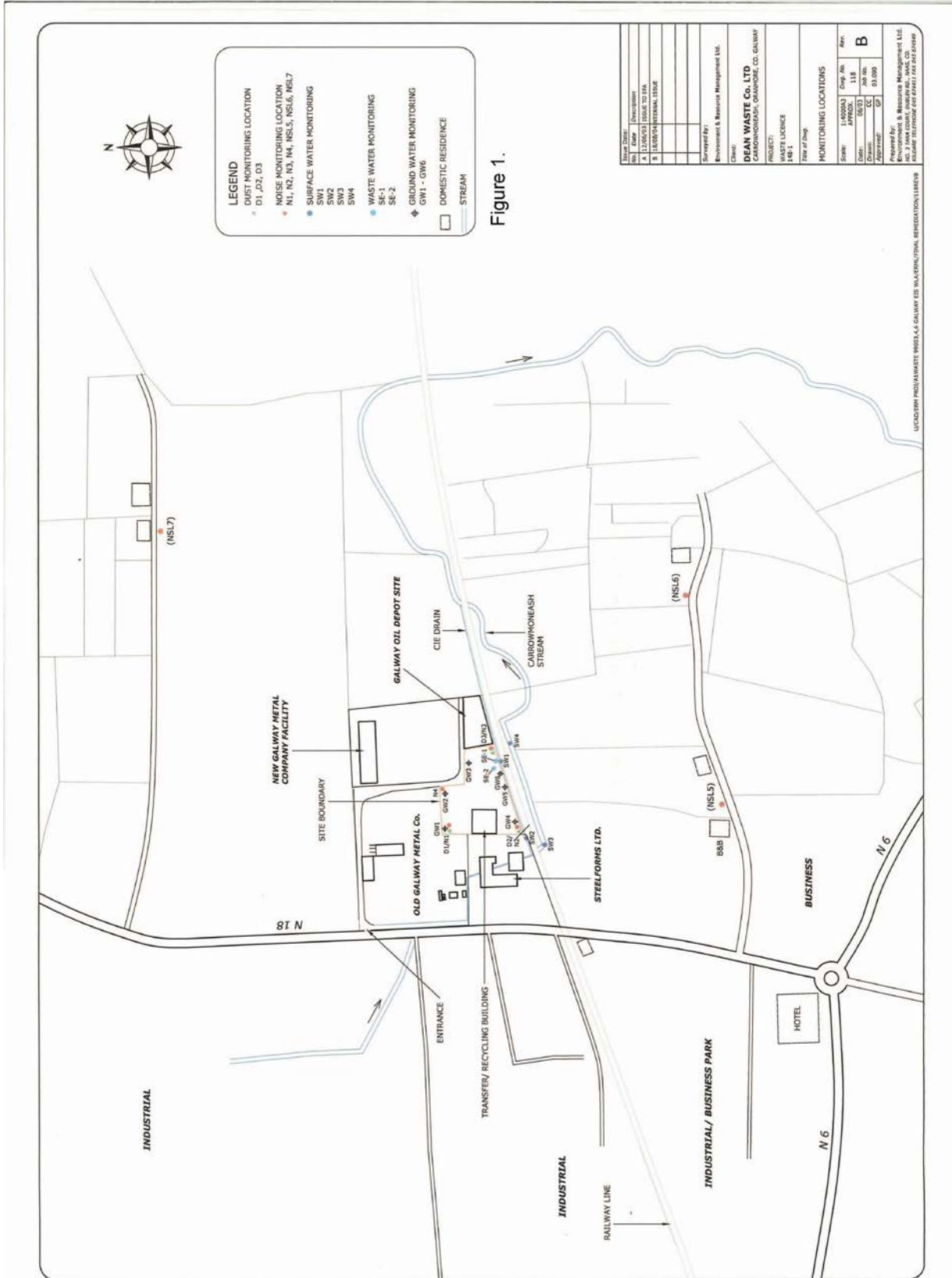
***Further to correspondence from 20th December 2010 (W0148-01 (11) AP24JG.docx) the monitoring frequency has been changed from bi –annually to annual monitoring.

*** Further to letter sent by EPA on 29th 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.

**** Further to letter received from EPA on 08th March 2013 from Agency, the ground water monitoring frequency has been changed from once a year to quarterly for another 12 month and number of parameters has been increased. Also surface water number of parameters has been increased as well for 12 month starting from Q2 2013 till Q1 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.





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 ² /day)		
	Q1 2013	Q3 2013	Q4 2013
D1	222	89	264
D2	228	26	226
D3	118	31	267

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/m²/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 Licence for the facility, No. 148-1. Dust samples were collected at the site over a period of more than 30 days, which is the standard sampling time.

The values presented in Table 3.1 show that total depositional dust levels measured at D1, D2 and D3 monitoring locations during the third quarter of 2013 were below the 350 mg/m²/day limit value which indicates that nuisance levels of dust do not occurring at the waste transfer station site.

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 Q3 2013

Date	Ambient PM10 conc. (ug/m ³)
Monitoring Location D1	12
Limit Value at 98.07 th percentile	50 ^{1,2}
Limit value-annual mean	20 ³

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

² Maximum number of exceedence seven times in a one-year period

³ 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 12 µg per cubic metre which is well below the statutory 24-hour average ambient air concentration level of 50 µg m⁻³ EU limit.

3.4. 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 3.4.1.

Table 3.4.1 Surface Water Monitoring Results: 1st January 2013 to 31st December 2013.

Parameter	Units	Monitoring Location Q1			Waste Licence Trigger Limits for SE1
		SW1	SW2	SE1	
BOD	mg/l	2.68	4.45	<2	25
Total Suspended Solids	mg/l	4	6.5	8.5	60
Mineral Oil >C10-C40	mg/l	<1	<1	<1	5
Oils, Fats & Greases	mg/l	<1	>1	<1	-
pH	-	7.78	7.73	7.94	-
Ammoniacal Nitrogen (N)	mg/l	0.925	1.41	<0.388	-

Parameter	Units	Monitoring Location Q2			Waste Licence Trigger Limits for SE1
		SW1	SW2	SE1	
BOD	mg/l	109	3.81	<3	25
Total Suspended Solids	mg/l	36	<2	8	60
Oils Fats and Greases	mg/l	3.6	<1	<1	-
pH	-	7.64	9.12	8.08	-
Total Ammonia (N)	mg/l	0.364	<0.2	0.264	-
TPH	mg/l	3.6	<1	<1	-
Total PolyChlorinated BiPhenyls	mg/l	<0.0001	<0.0001	<0.0001	-
Mineral Oil	mg/l	5.49	<0.01	0.86	5
DRO	mg/l	1.76	0.16	0.41	-
PRO	mg/l	0.13	<0.05	<0.05	-
Benzene	mg/l	<0.007	<0.007	<0.007	-
Toluene	mg/l	0.005	<0.004	<0.004	-
Ethyl benzene	mg/l	<0.005	<0.005	<0.005	-
Xylene	mg/l	0.004	<0.003	<0.003	-
Total PAH's	mg/l	0.00025	<0.00025	0.0039	-

Parameter	Units	Monitoring Location Q3			Waste Licence Trigger Limits for SE1
		SW1	SW2	SE1	
BOD	mg/l	16.3	86.1	<2.5	25
Total Suspended Solids	mg/l	340	158	4.5	60
Oils Fats and Greases	mg/l	2.35	7.48	1.62	-
pH	-	7.91	7.18	7.92	-
Total Ammonia (N)	mg/l	3.35	1.11	3.23	-
TPH	mg/l	2.35	7.48	1.62	-
Total PolyChlorinated BiPhenyls	mg/l	<0.001	<0.01	<0.001	
Mineral Oil	mg/l	1.08	0.503	0.496	5
DRO	mg/l	0.43	3.7	0.16	-
PRO	mg/l	<0.05	<0.05	0.13	-
Benzene	mg/l	<0.007	<0.007	<0.007	-
Toluene	mg/l	<0.004	<0.004	<0.004	-
Ethyl benzene	mg/l	<0.005	<0.005	<0.005	-
Xylene	mg/l	<0.003	<0.003	<0.003	-
Total PAH's	mg/l	0.001	<0.030	0.00024	-

Parameter	Units	Monitoring Location Q4			Waste Licence Trigger Limits for SE1
		SW1	SW2	SE1	
BOD	mg/l	<1	<1	<1	25
Total Suspended Solids	mg/l	<6	<4	<4	60
Oils Fats and Greases	mg/l	<1	<1	<1	-
pH	-	7.93	8.03	7.96	-
Total Ammonia	mg/l	0.234	<0.2	0.205	-
TPH	mg/l	<1	<1	<1	-
Total polychlorinated biphenyls	mg/l	0.001	0.001	0.001	
mineral oil	mg/l	0.01	0.01	0.01	5
DRO	mg/l	0.12	0.1	0.12	-
PRO	mg/l	0.05	0.05	0.05	-
Benzene	mg/l	0.007	0.007	0.007	-
Toluene	mg/l	0.004	0.004	0.004	-
Ethyl benzene	mg/l	0.005	0.005	0.005	-
Xylene	mg/l	0.003	0.003	0.003	-
Total PAH's	mg/l	0.0003	0.0003	0.0003	-

Summary of Results

The BOD levels for SW1 were high in Q2 and were high again in SW2 in Q3. In addition total suspended solids were high in Q3 in SW1 and SW2. This is likely to be a result of the blockage on either side in the drainage stream where SW1 is located. This area is currently being used as part of a settlement pond clean-up operation for the neighbouring site. With no flow in the drain and containment of waste water rather than dilution, the water can become stagnant thus resulting in high BOD, TPH and mineral oil. With the results in SW2 showing evidence of being polluted we can see that the effects of the stream blockage are taking effect further upstream of SW1. Levels of BOD and Suspended Solids had normalised in Q4. The drain is regularly scheduled to be pumped out in the future to avoid stagnant conditions.

All other surface water results for this sampling period are within 'typical' levels, with BOD and Total Suspended Solids within the waste licence trigger limits for SE1. Results indicate that waste transfer station activities are not resulting in any pollution to local stream however conditions in the stream have decreased in quality owed to a lack of flow within the stream.

3.5. 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 quarterly starting since second quarter at the waste transfer station. The ranges of results recorded during sampling are presented in Table 3.5.1.

Table 3.5.1. Groundwater Monitoring Results: 1st January 2013 to 31st December 2013.

Parameter Q2	Units	GW1	GW2	GW3	GW4	GW5	GW6
Total Polychlorinated Biphenyl's	mg/l	<0.0001	<0.0002	<0.21	<0.21	<0.21	<0.105
Total petroleum Hydrocarbons	mg/l	0.0259	<0.001	0.0033	<0.001	0.133	0.468
Mineral Oils	mg/l	11.0	<0.02	1.19	<0.02	34.1	78.6
Diesel Range Organics	mg/l	14.6	0.576	2.2	<0.092	48.1	31.8
Petrol Range Organics	mg/l	<0.050	0.491	<0.050	<0.050	0.123	0.146
Benzene	mg/l	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Toluene	mg/l	<0.004	<0.004	<0.004	<0.004	0.010	<0.004
Ethyl Benzene	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylene	mg/l	<0.011	<0.011	<0.011	<0.011	<0.018	<0.011
Total PAH's	mg/l	0.00028	<0.0013	<0.0002	<0.0005	0.0041	<0.002*

*GW6 sample was insufficient after sample collection on May 16th and was therefore resampled on June 25th

Parameter Q3	Units	GW1	GW2	GW3*	GW4	GW5	GW6
Total Polychlorinated Biphenyl's	mg/l	<0.0001	<0.0001	<5	<0.0001	<0.0001	<0.01
Total petroleum Hydrocarbons	mg/l	14.8	<1	33400	<1	12.8	198
Mineral Oils	mg/l	4.55	0.75	17800	0.01	5.34	152
Diesel Range Organics	mg/l	5.51	0.44	22000	<0.046	5.45	145
Petrol Range Organics	mg/l	<0.050	0.39	3.2	<0.050	<0.050	<0.050
Benzene	mg/l	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Toluene	mg/l	<0.004	<0.004	<0.004	<0.004	0.01	0.004
Ethyl Benzene	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylene	mg/l	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Total PAH's	mg/l	0.00025	<0.004	<4.980	<0.0002	0.0012	<0.040

*GW3 results were shown to be elevated more than normal so resampling was completed on September 24th 2013. The results are shown below.

Parameter Q3 only GW3	Units	22nd July	24th Sept
Total petroleum Hydrocarbons	mg/l	33400	2100
Mineral Oils	mg/l	17800	1290
Diesel Range Organics	mg/l	22000	1660

Parameter Q4	Units	GW1	GW2	GW3	GW4	GW5	GW6
Total Polychlorinated Biphenyls	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
TPH	mg/l	<1	<1	22.8	<1	222	5.63
mineral Oil	mg/l	<0.01	<0.01	12.2	<0.01	162	1.7
Diesel Range Organics	mg/l	0.117	0.205	18.9	0.12	237	2.52
Petrol Range Organics	mg/l	<0.00005	<0.00005	<0.00005	<0.00005	2.96	0.146
Benzene	mg/l	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Toluene	mg/l	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Ethyl Benzene	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylene	mg/l	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
total PAH's	mg/l	<0.0001	<0.001	0.0005	<0.0002	0.105	0.0005

Summary of Results

Results show elevated levels of Diesel Range Organics (DRO), Total Petroleum Hydrocarbons (TPH) and Mineral oil in boreholes GW3, GW5 and GW6. These results show similar trends to those submitted regularly in previous reports where elevations were not shown to be the result of onsite activities. However during the quarterly 3 of sampling GW3 the groundwater received was noticeably more turbid than usual appearing a dark brown colour rather than the usual clear. Extensive construction activity that has been taking place over the previous five months in the neighbouring site is likely to have affected the groundwater quality with the monitoring borehole. These activities are likely to have resulted in the elevated diesel related substances in the water.

3.6. 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 once last year. The Wers Waste Ltd emptied and cleaned in 4th of September 4000 gallon liquid.

4. Resource and Energy Consumption

Table 4.1 present the resource and energy consumption at the facility during the reporting period 1st January 2013 to 31st December 2013.

Table 4.1. Energy and Resource Consumption.

Resource/ Energy Use	Quantity	Unit
Electricity	61,340	kWhr
Diesel	7770	Liter

5. Report on Development Work

5.1. Works for the Preceding year

During the reporting period 1st January 2013 to 31st December 2013 the licensee has completed the development works as listed in Table 5.1.1.

Table 5.1.1. Development Works between 1st January 2013 and 31st 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

5.2. Works for the Coming Year

The following is the proposed works for the reporting period 1st January 2014 to 31st December 2014 the licensee has currently planned as listed in Table 5.2.1.

Table 5.2.1. Proposed Development Works between 1st January 2014 and 31st December 2014.

Item	Works	Licence Condition
1	Reduce energy usage	N/A
2	Implement recycling and composting campaign for our customers	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 2013.

Table 6.1.1 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 Method to achieved the target: 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 Method to achieved the target 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 Method to achieved the target Personal one to one training with Facility Manager and introduce all aspect of Health and Safety roles.	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 Method to achieved the target Capital investment	Facility Manager	Partial
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. Method to achieved the target Weekly mechanical yard sweeping.	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 2014.

Table 6.2.1 Objectives & Targets for 2014

Objective	Target	Responsibility	Completion
Energy Usage	Reduce the amount of energy used by the transfer station by 4% i.e. electricity & diesel consumption Method to achieved the target: Inserting timing switches on all light fittings to control lighting patterns	Facility Manager	Dec 2014
Odour Management and abatement	To develop an improved odour management system so that no complaints are received from either Public or EPA regarding Odour Method to achieved the target Keep EWC 200301 and EWC 200108 to a minimum over night by increasing out put from facility on a daily basis	Facility Manager	Dec 2014
Train Staff to appropriate level for their position	Train 1,2 people in facility management Method to achieved the target Personal one to one training with Facility Manager and introduce all aspect of Health and Safety roles.	Facility Manager	Dec 2014
Groundwater protection	To Reduce BOD & suspended Solid Method to achieved the target Use environmental socks in pre & post silt tank. Interceptor fully serviced by a Kingspan	Facility Manager	Dec 2014
Additional improvements	Traffic Management Method to achieved the target: Improved parking & obstacles removed	Facility Manager	Dec 2014

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
EP7018	Emergency Response Procedure for Transfer Station
EP7015	Environmental Sampling, Monitoring and Reporting Personnel
EP7021	Fire Preventative Procedure

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 25th and 26th 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 3 mobile bunds in the quarantine area which can be used to store fuel and oil. However there are no drums present at the facility. The Agency required integrity test for this mobile bound that was taken on the 27th of June. The water tightness test was conducted by Eoin McCarthy and John Carey of McCarthy Keville O’Sullivan Ltd. and consisted of a visual inspection and water loss test (a hydrostatic test).

The visual inspection of the spill pallet currently in use found it to be structurally sound.

The partial hydrostatic test undertaken to test the water tightness of the spill pallet currently in use did not result in any drop in water level over the test period nor did it show any signs of leakage.

The spill pallet in current operation as of 27.06.2013 is deemed to be watertight and the integrity of the bund intact.

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 were no incidents or complaints received at the transfer station during last year.

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 €7,059.48 for services they provide in relation to overseeing the Waste Licence. 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 Licence 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. AER/ PRTR Reporting for 2013

[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.17

REFERENCE YEAR	2013
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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	
	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
AER Returns Contact Name	Niall Killilea
AER Returns Contact Email Address	info@citybin.com
AER Returns Contact Position	Managing Director
AER Returns Contact Telephone Number	091787800
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	091787879
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	70
User Feedback/Comments	No/a
Web Address	http://www.citybin.com/cms/

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
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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_2013.xls | Return Year : 2013 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		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

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		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)

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
Pollutant No.	Name	M/C/E	Method Used		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		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

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 Code	Designation or Description	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_2013.xls | Return Year : 2013 |

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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		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# : W0148 | Facility Name : City Bin Co Ltd | Filename : W0148_2013.xls | Return Year : 2011

10/03/2014 17:12

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_2013.xls | Return Year : 2013 |

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SECTION A : PRTR POLLUTANTS

POLLUTANT		RELEASURES TO LAND			Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
No. Annex II	Name	M/C/E	Method Code	Method Used 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		RELEASURES TO LAND			Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
Pollutant No.	Name	M/C/E	Method Code	Method Used 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_2013.xls | Return Year : 2013 |

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Please enter all quantities on this sheet in Tonnes

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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	Non	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)
						Haz Waste : Name and Licence/Permit No of Recover/Disposer	Non Haz Waste : Address of Recover/Disposer						
						M/C/E	Method Used						
Within the Country	20 03 01	No	987.02	mixed municipal waste	R5	M	Weighed	Offsite in Ireland	Dillon Waste Recycling,WFP KY 10-001		The Kerries,Tralee,Co Kerry,0,Ireland Tuam Business Park,Weir Road Tuam ,Co Galway,0,Ireland Tuam Business Park,Weir Road Tuam ,Co Galway,0,Ireland		
Within the Country	20 01 01	No	2377.73	paper and cardboard	R5	M	Weighed	Offsite in Ireland	Wers Waste Ltd,Licence WR/84		Tuam Business Park,Weir Road Tuam ,Co Galway,0,Ireland Tuam Business Park,Weir Road Tuam ,Co Galway,0,Ireland		
Within the Country	20 01 39	No	6.94	plastics	R5	M	Weighed	Offsite in Ireland	Wers Waste Ltd,Licence WR/84		Tuam Business Park,Weir Road Tuam ,Co Galway,0,Ireland		
Within the Country	20 01 08	No	509.86	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Millenium Composting System,W0270-01		Miltownmore,Fethard,County ,Tipperary,Ireland Carrowbrownne ,Headford Road,Galway,0,Ireland Tuam Business Park,Weir Road Tuam ,Co Galway,0,Ireland		
Within the Country	20 01 08	No	57.62	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Barna Recycling,W106-02		Tuam Business Park,Weir Road Tuam ,Co Galway,0,Ireland		
Within the Country	20 03 07	No	401.44	bulky waste	R5	M	Weighed	Offsite in Ireland	Wers Waste Ltd,Licence WR/84		Tuam Business Park,Weir Road Tuam ,Co Galway,0,Ireland		
Within the Country	20 03 01	No	9.46	mixed municipal waste	R5	M	Weighed	Offsite in Ireland	Nurendale Ltd T/A Panda Waste Services,W0140-03		Rathdrinagh,Beauparc,Navan,Co Meath,Ireland		
Within the Country	20 03 07	No	74.5	bulky waste	R5	M	Weighed	Offsite in Ireland	Pacon Waste & Recycling,WFP-FG-10-004-01		Unit 4F,Fingal Bay Business Park,Balbriggan,Co Dublin,Ireland		
Within the Country	20 03 01	No	16806.76	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Bord na Móna Environmental Ltd,W0201-02		Main Street,Newbridge,Co. Kildare,0,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](#)