South Dublin County Council

Ballymount Solid Waste Recycling and Baling Centre and Civic Amenity

Waste Licence Reg. No.W0003-03

Annual Environmental Report
1st January 2013 – 31st December 2013

South Dublin County Council

Issued 31st March 2014

BALLYMOUNT SOLID WASTE

RECYCLING AND BALING CENTRE

ANNUAL ENVIRONMENTAL REPORT

1st January 2011 – 31st December 2013

REVISION CONTROL TABLE

User is Responsible for Checking The Revision Status Of This Document

Rev. No.	Description of Changes:	Prepared by:	Checked by:	Approved by:	Date:	No. of Copies
0	1st Draft	P.H.			07/10/00	3
1	1st Draft	JMC			08/03/02	3
2	2nd Draft	JMC	LM	SM	31/01/03	3
3	3rd Draft	P.G			31/01/04	3
4	3rd Draft	P.G	DF		24/01/05	3
5	1st Draft	P.G				5
6	1st Draft	G.M.			04/01/07	5
7	1st Draft	G.M.	LM		02/04/08	5
8	1st Draft	E.B.	LM		23/03/09	5
9	1st Draft	E.B.	LM		25/03/10	5
10	1st Draft	E.B.	LM		25/03/11	5
11	1st Draft	E.B.	LM		16/03/12	5
12	1st Draft	E.B.	LM		24/03/13	5
13	1st Draft	E.B.	LM		28/03/14	5

BALLYMOUNT SOLID WASTE

RECYCLING AND BALING CENTRE

ANNUAL ENVIRONMENTAL REPORT

1st January 2013 – 31st December 2013

Environmental Services Department,
South Dublin County Council,
PO Box 4122,
Town Centre,
Tallaght,
Dublin 24.

March 2014

TABLE OF CONTENTS

1. INTRODUCTION

South Dublin County Council (the Council) holds a Waste Licence (Reg. No. 0003-03) to operate Ballymount Solid Waste Recycling and Baling Centre and Civic Amenity Facility at Ballymount Avenue, Walkinstown, Dublin 12. In accordance with the requirements of Condition 11.5 of the Waste Licence, an Annual Environmental Report (AER) for the facility must be submitted to the Environmental Protection Agency (EPA).

This is the thirteenth AER, covering the reporting period 1st January 2013 – 31st December 2013 as agreed with the Agency.

The facility is operated on the basis of a joint venture agreement between the Council and Greenstar Ltd. for the operation of the Civic Amenity and Recycling Centre and on a Licence Agreement basis with Panda Waste Services for the operation of The Baling Station area of the facility.

The facility is located at: -

Ballymount Solid Waste Recycling and Baling Centre,
Ballymount Avenue,
Walkinstown,
Dublin 12

Tel. (01) 4621251 Fax: (01) 4525145

National Grid co-ordinates for the location of the facility are: E 3103 N 2302.

1.1. South Dublin County Council/Greenstar/Panda Waste Services Policy

The Council, Greenstar and Panda Waste Services have developed an Environmental Policy for the facility, which is committed to conducting all activities such that they have a minimal effect on the environment.

All levels of management are committed to implementing and maintaining an environmental management programme in compliance with the requirements of the Environmental Protection Agency.

The key objectives of the Council, Panda Waste Services and Greenstar's management committee are: -

1. A commitment to compliance with the Waste Licence and all pertinent environmental legislation and approved codes of practice. To this end, the management committee will co-operate fully with all regulatory authorities.
2. To continually develop and modify all procedures to reduce environmental impacts.
3. To train and educate all employees in the skills and understanding necessary to minimise any risk to the environment.
4. To ensure that all management and employees are familiar with the conditions of the Waste Licence and the content of the Environmental Management Plan (EMP).

2. DESCRIPTION OF THE SITE

The Recycling and Baling Centre is located at Ballymount Avenue, Walkinstown, Dublin 12, within an area zoned for industrial development. The site location plan is shown in Figure 1. The facility is surrounded in the industrial park by various warehouses and industrial buildings and is adjacent to the N81 (Greenhills Road) on its eastern boundary.

Waste handling activities at the facility consist of the pre-treatment of municipal solid household waste for export to incineration for energy recovery by Panda Waste Services, and by Greenstar the acceptance of certain recyclable household waste types at the Civic Amenity Facility. The main activity at the facility is the pre-treatment, baling and wrapping of waste for energy recovery by incineration.

The licensed waste activities are listed below.

Licensed waste disposal activities, in accordance with the Third Schedule of the Waste Management Act 1996 include: -

Class 12: Repackaging prior to submission to any activity referred to in this Schedule.

Class 13: Storage prior to submission to any activity referred to in this Schedule, other than temporary storage, pending collection, on the premises, where the waste concerned is produced.

Licensed waste recovery activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996 include: -

Class 3: Recycling or reclamation of metals and metal compounds.

Class 4: Recycling or reclamation of other inorganic materials.

Class 13: Storage of waste intended for submission to any activity referred to in a preceding paragraph of this schedule, other than the temporary storage, pending collection, on the premises where such waste is produced.

It is considered that the activities carried out at the waste transfer station do not have an adversely significant impact upon local environmental conditions due to the fully enclosed nature of the facility. While the Civic Amenity Facility is not enclosed, there are no activities carried out which affect local environmental conditions.

Local environmental conditions do not significantly influence the facility. Rainfall records for the area indicate an average rainfall of 688.5mm in 2013. The surface water drainage system is designed with an adequate capacity for high rainfall events at the site. Average prevailing winds are from a south westerly direction.

There are approximately 14 people employed on a full-time basis at the facility.

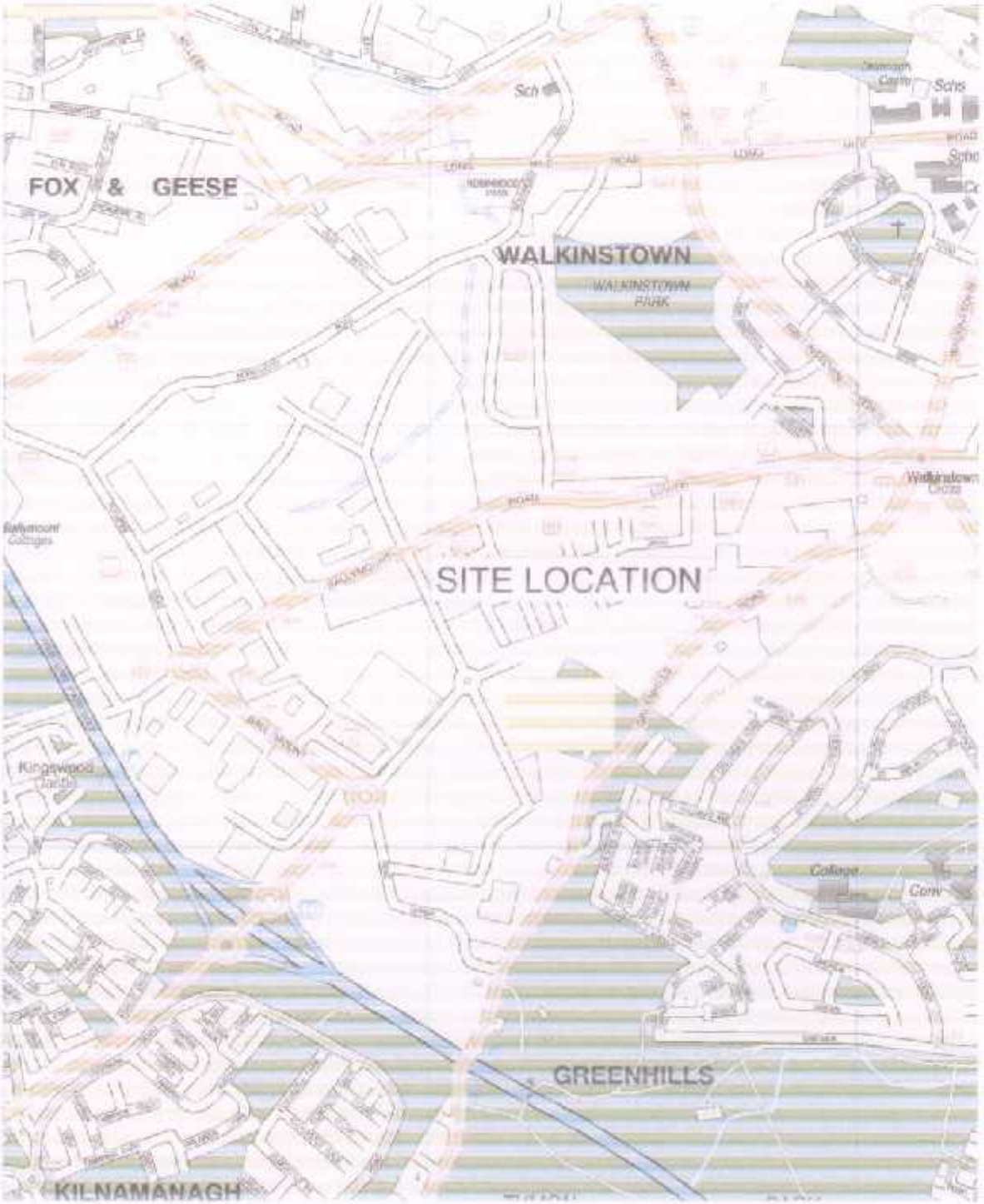

Figure 2.1 Site Location Map

Reproduced from Ordnance Survey with Government Permission – Permit No. 4639/98
DISCOVERY SERIES SHEET No. 50

3. MONITORING AND EMISSIONS SUMMARY

Environmental monitoring results for the reporting period are outlined in the following sections. An interpretation of the results and impacts on the environment are also presented. A site plan showing the position of each monitoring location is included in the Appendix.

3.1. Monitoring of Surface Water

Condition 8.1 of Waste Management Licence W0003-03 requires that quarterly monitoring be undertaken at three points on the partially culverted stream to the Northwest of the facility. Two of the monitoring points (S1 and S2) are upstream (us) of the site, while the other point (S3) is downstream (ds) of the site. Surface water parameters are measured quarterly in accordance with Schedule D.4 of the Licence. The surface water monitoring results are summarised in Table 3.1, which can be found in the Appendix and in Figures 3.1 to 3.5. The results are compared where applicable to the limits for the EPA waste licence W0003-03.

The surface water monitoring results for grab samples taken downstream of the facility at S2 and S3 during the reporting period 1st January to 31st December 2013 were fully compliant.

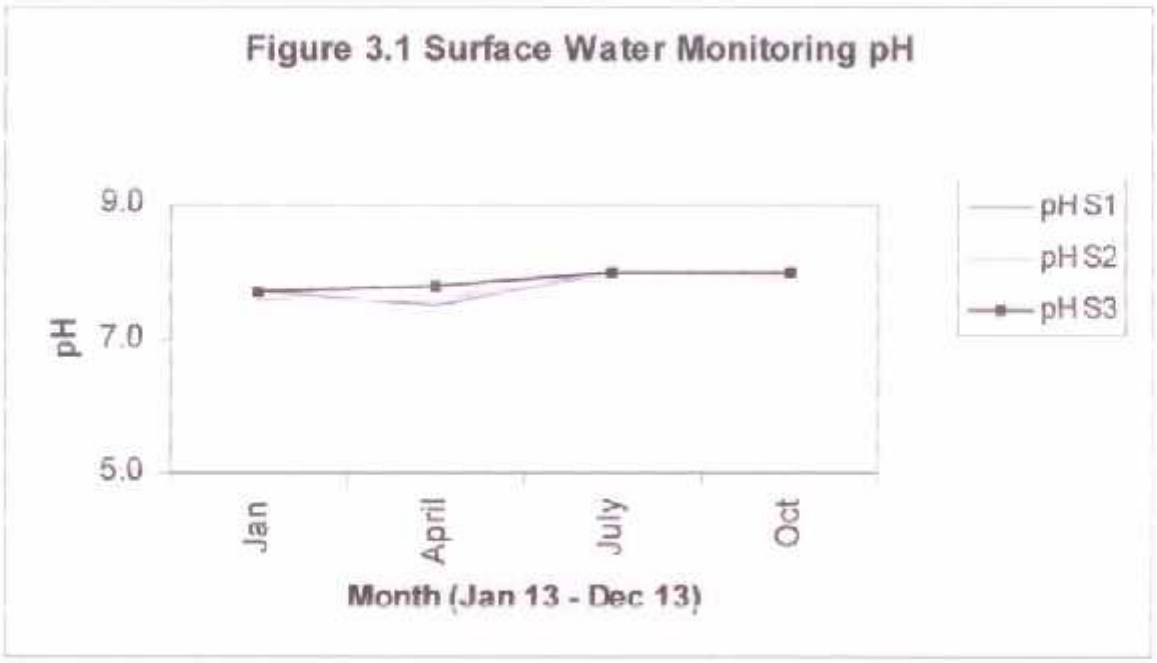

Figure 3.1 Surface Water Monitoring - pH

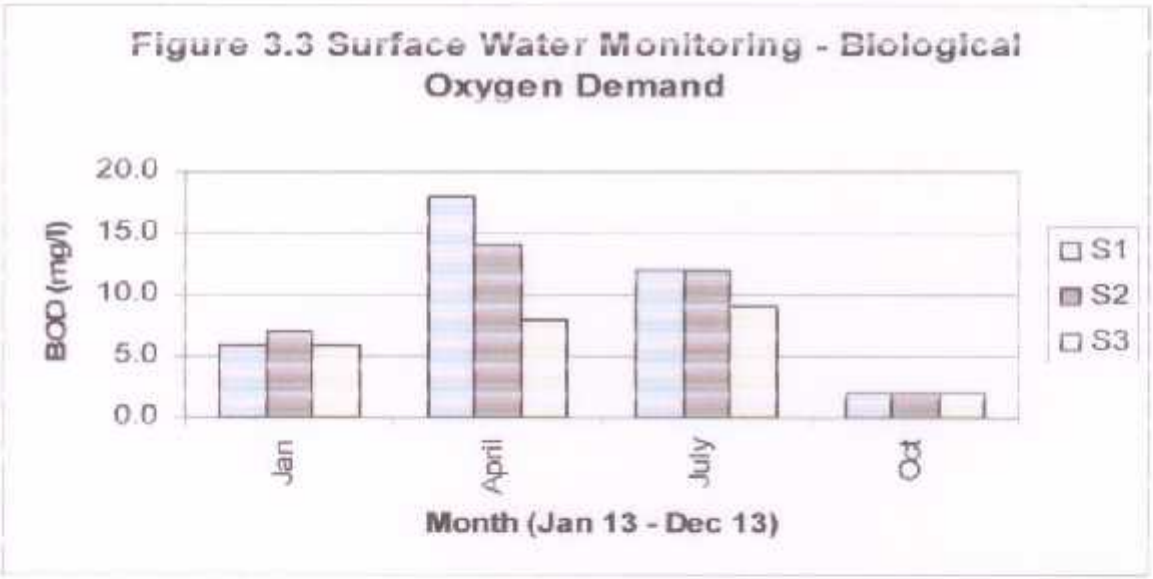

Figure 3.2 Surface Water Monitoring - Biological Oxygen Demand (ELV 25mg/l)

(BOD detectable limit: <2mg/l)

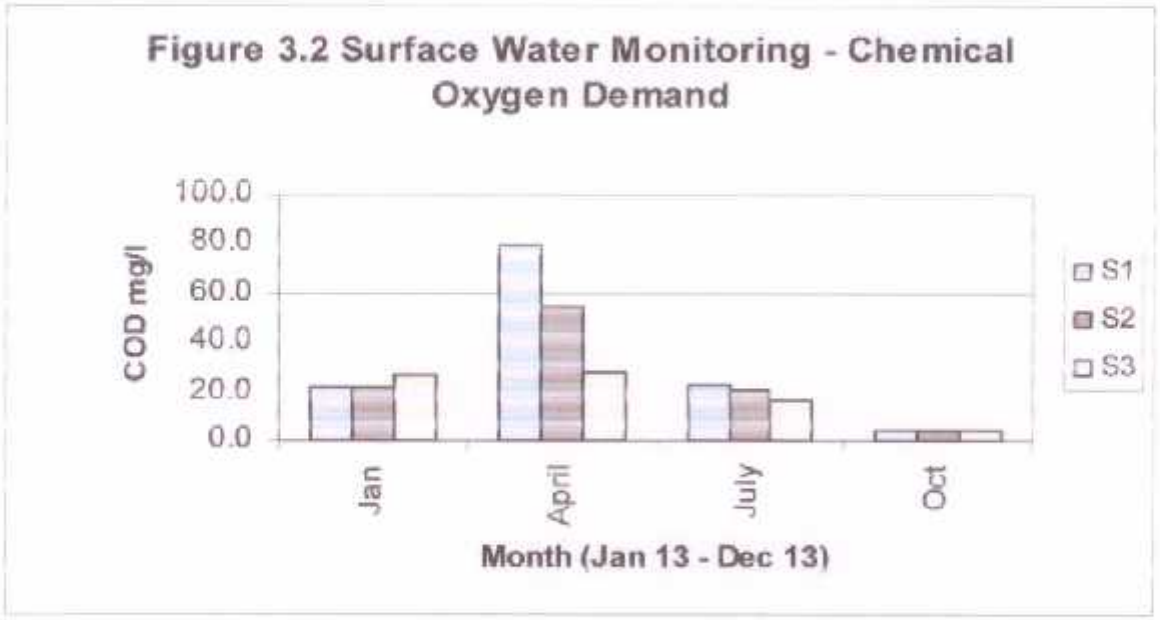

Figure 3.3 Surface Water Monitoring - Chemical Oxygen Demand (ELV 150mg/l)

(COD detectable limit: <4mg/l)

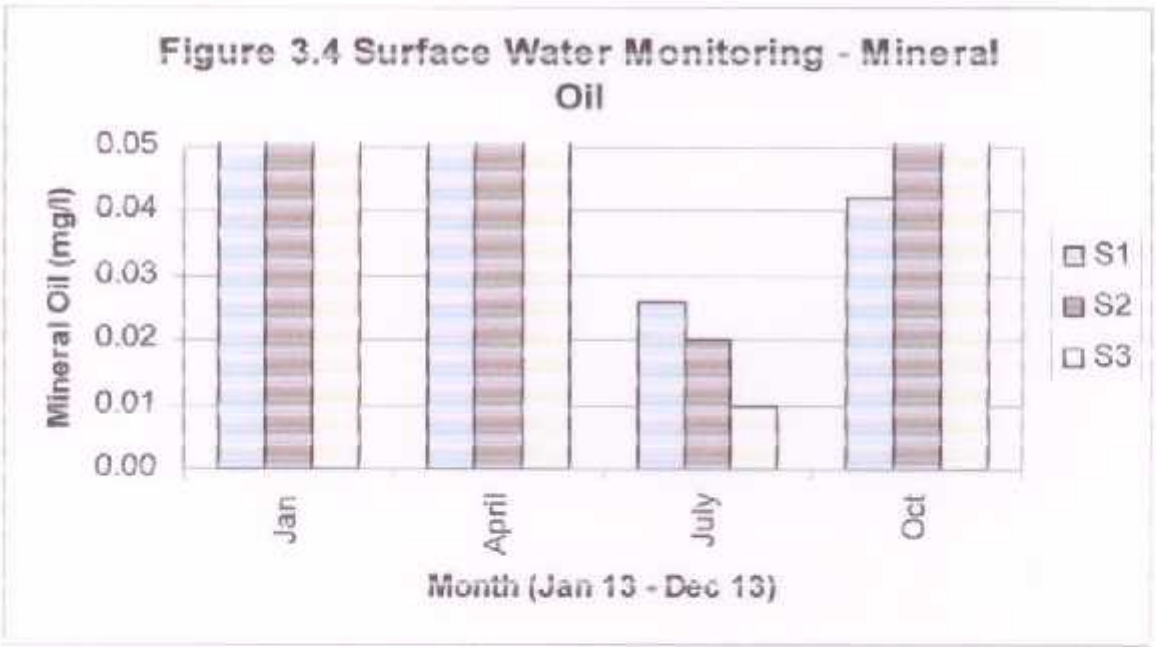

Figure 3.4 Surface Water Monitoring - Mineral Oil (ELV 10mg/l)

(Mineral Oil detectable limit: 0.04mg/l)

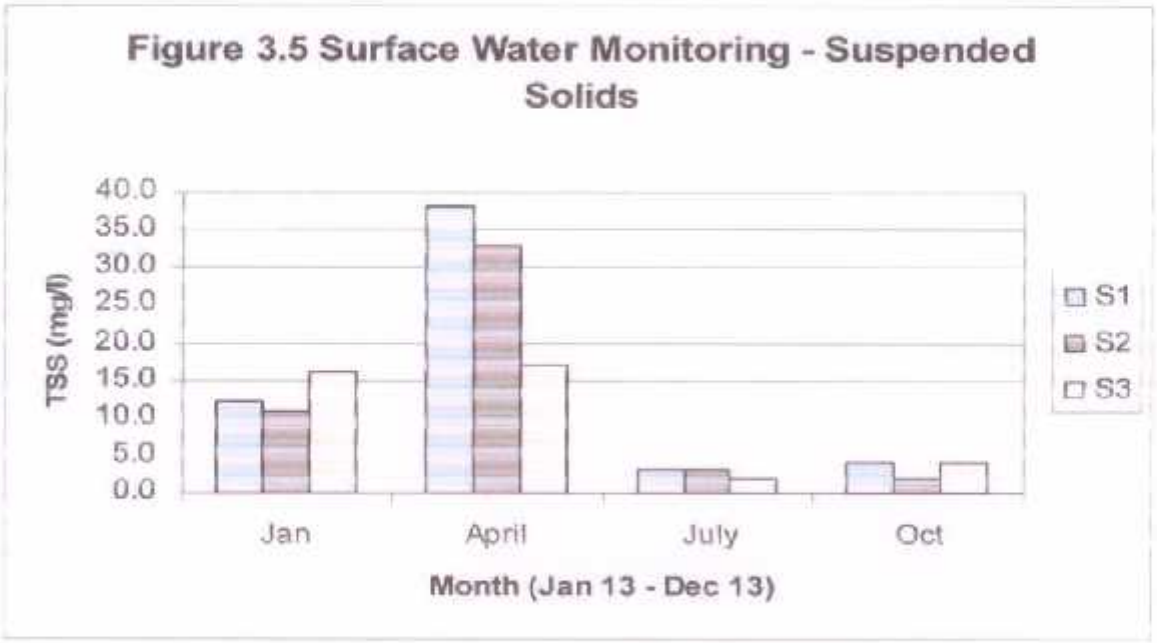

Figure 3.5 Surface Water Monitoring - Suspended Solids (ELV 35mg/l)

3.2. Emissions to Surface Water

The Licence requires that emissions to surface water be measured quarterly (subject to rainfall events) at SWE1A and SWE1B. Schedule C.3 sets out Emission Limit Values for Chemical Oxygen Demand (COD) and Oils, Fats, Greases (OFG). Condition 6.6.2 sets out the trigger levels for Biological Oxygen Demand (BOD) and Suspended Solids (SS).

Table 3.2 Due to insufficient sampling volumes at rainfall events only one sample was obtained during the reporting period.

Monitoring Point	SWE1A				SWE1B			
	COD mg/l	OFG mg/l	BOD mg/l	SS mg/l	COD mg/l	OFG mg/l	BOD mg/l	SS mg/l
ELV*	150	10	25	35	150	10	25	35
January	91	NR	7	42	No flow	No flow	No flow	No flow
April	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
July	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
November	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow

Table 3-1 Emissions to Surface Waters

3.3. Emissions to Foul Sewer

Condition 8.1 requires that emissions to foul sewer (at F6) be monitored on a quarterly basis. No exceedence of the Emission Limit Values as set out in Schedule C.4 of the Waste Licence was recorded for any emissions to the sewer over 4 sampling events. The results are illustrated in Figures 3.6 to 3.12. A table of monitoring results is included in the Appendix.

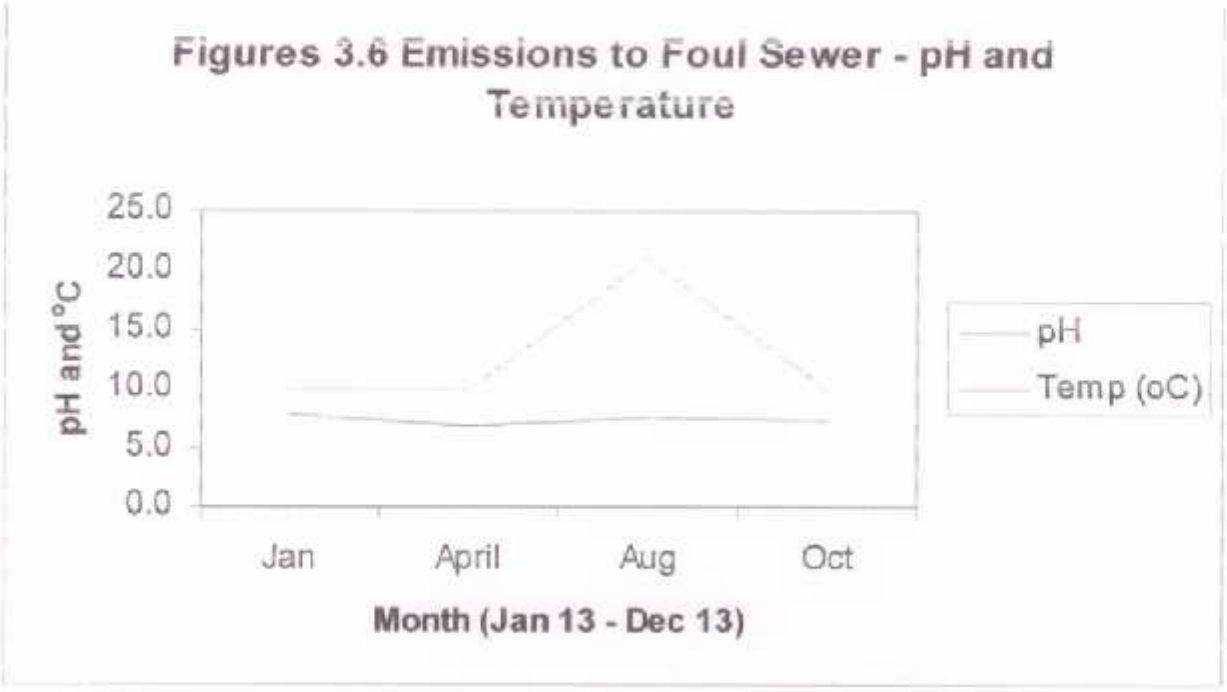

Figure 3.6 Emissions to Foul Sewer - pH and Temperature (ELV 5-10 & 42°C)

*Average temperature taken for January and October

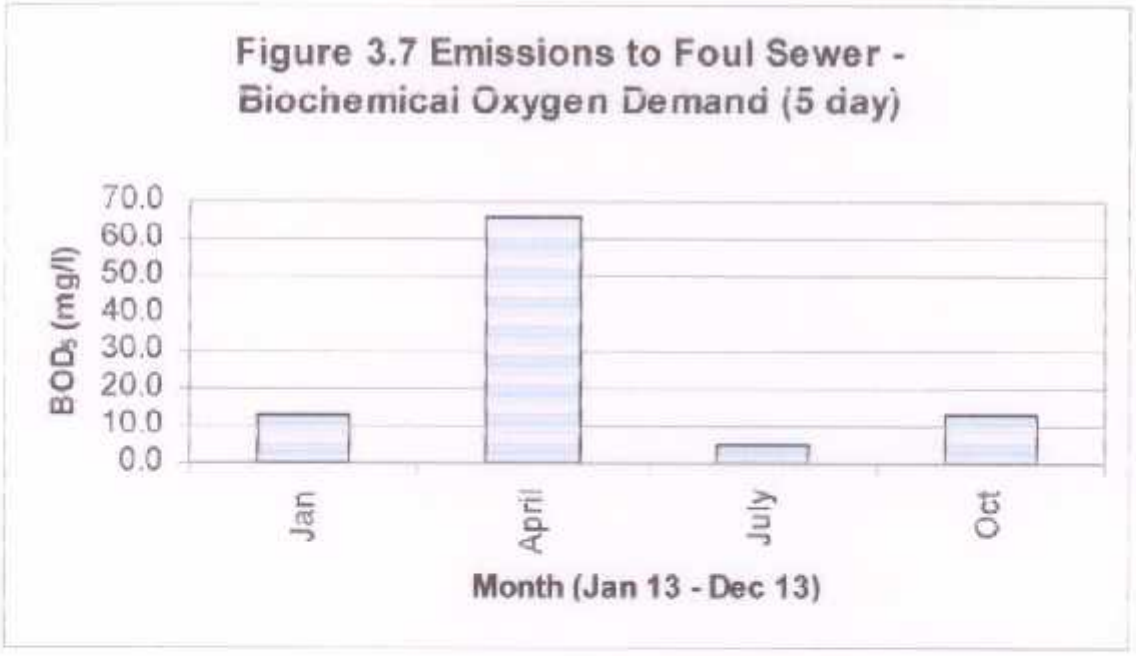

Figure 3.7 Emissions to Foul Sewer - Biochemical Oxygen Demand (5 day) (ELV 10,000mg/l)

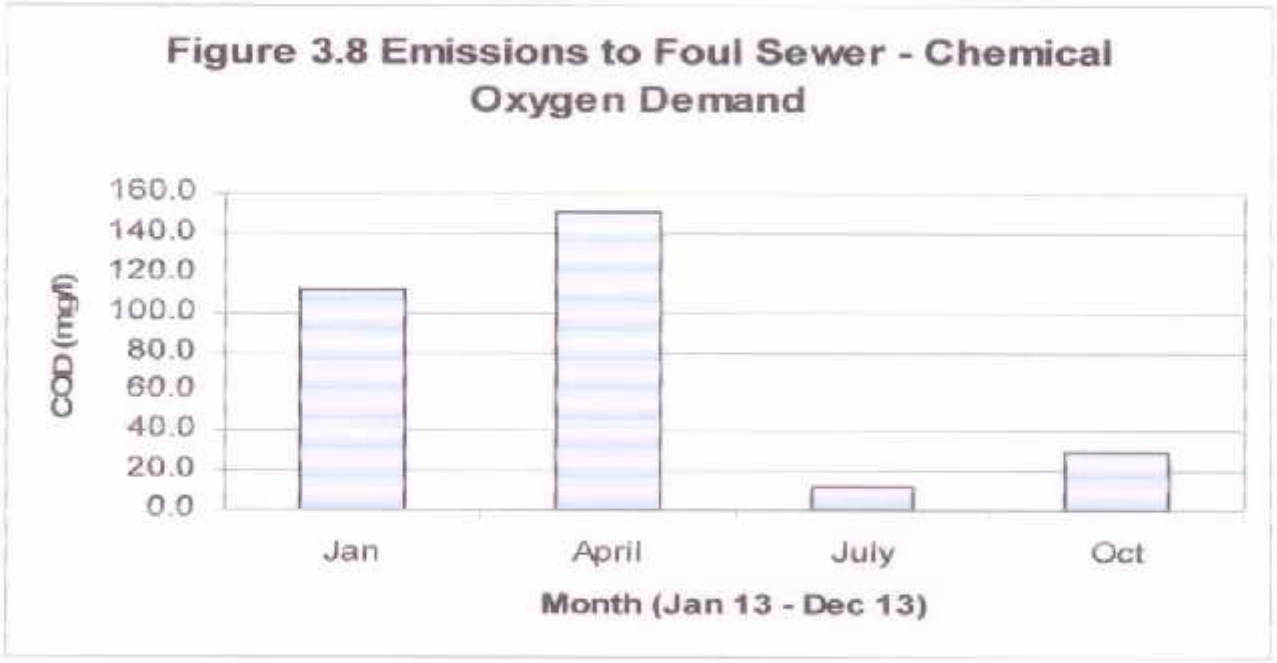

Figure 3.8 Emissions to Foul Sewer - Chemical Oxygen Demand (ELV 30,000mg/l)

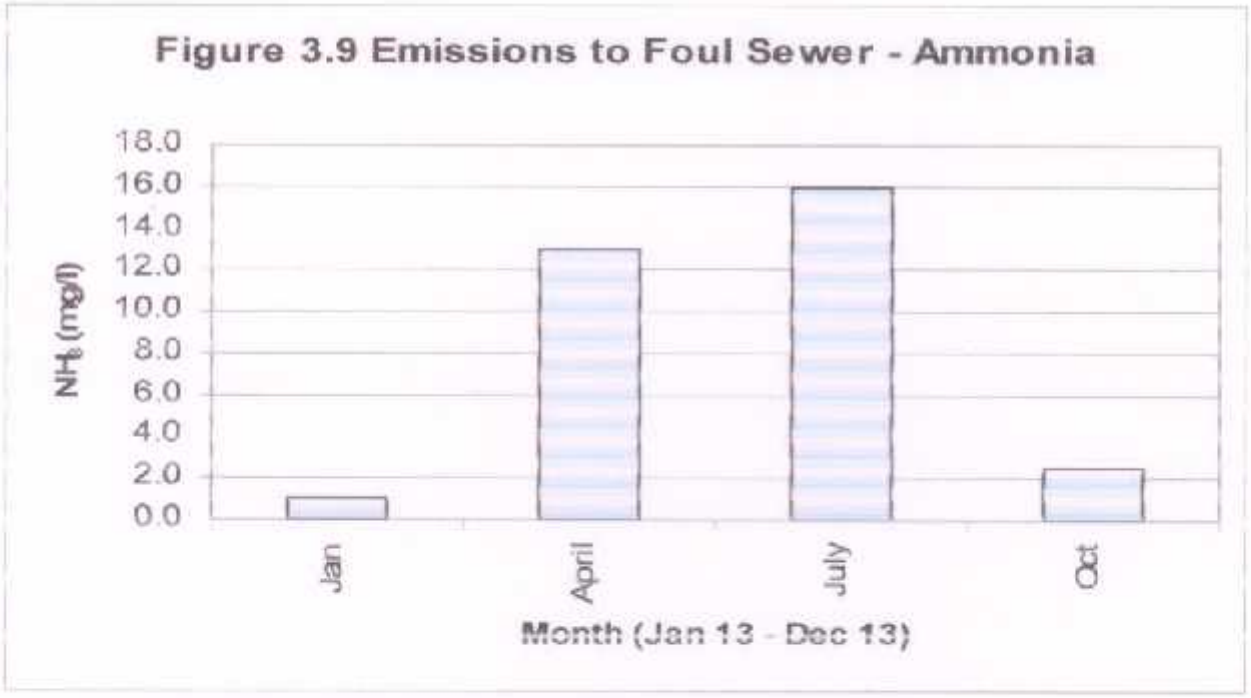

Figure 3.9 Emissions to Foul Sewer – Ammonia (ELV 50mg/l)

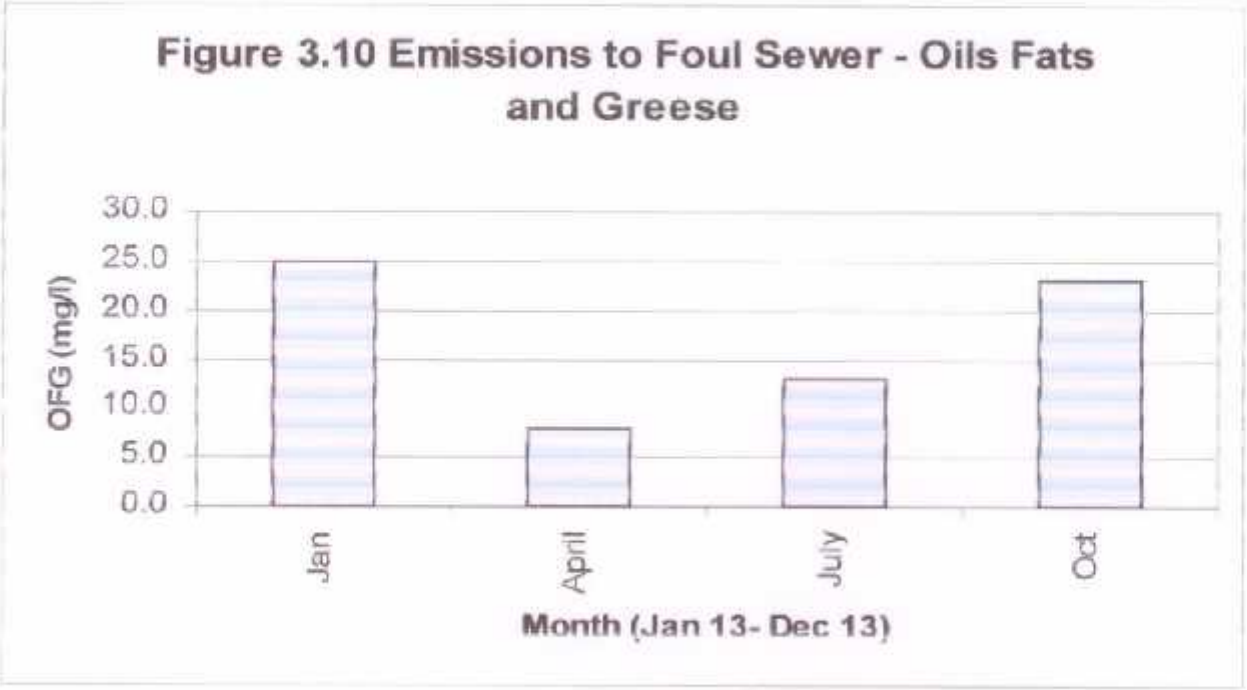

Figure 3.10 Emissions to Foul Sewer - Oils Fats and Grease (ELV 100mg/l)

(OFG detectable limit: <2mg/l)

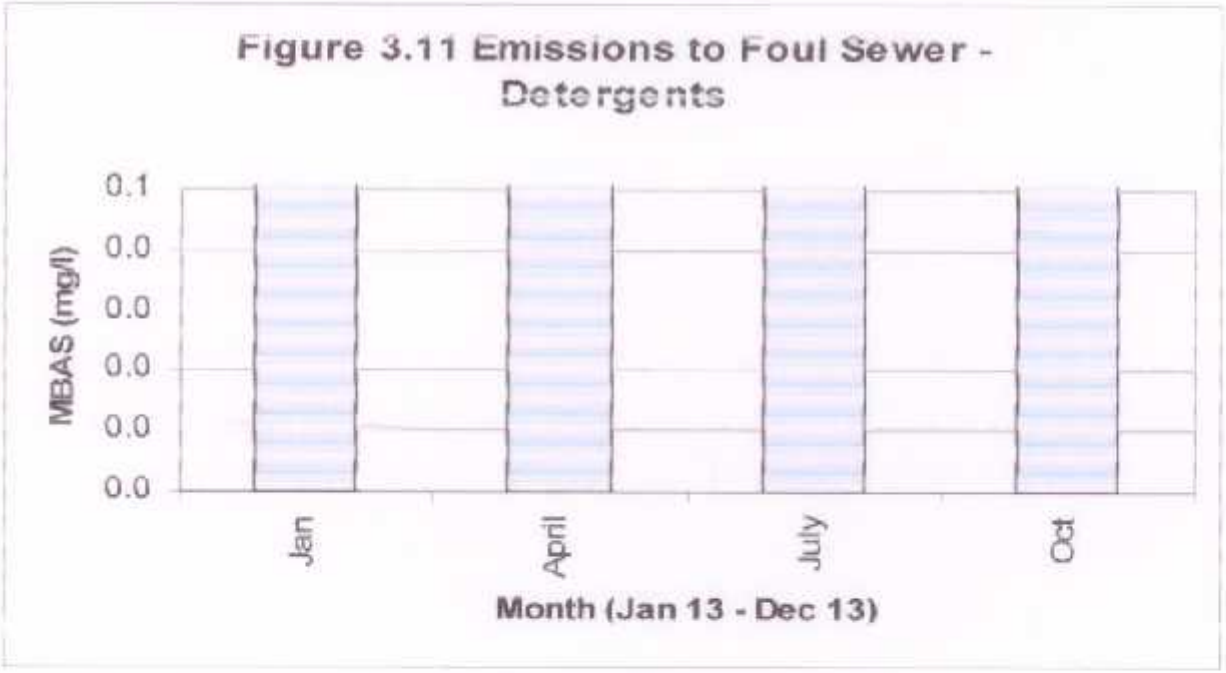

Figure 3.11 Emissions to Foul Sewer – Detergents (ELV 100mg/l)

(Detergents detectable limit: <0.05mg/l)

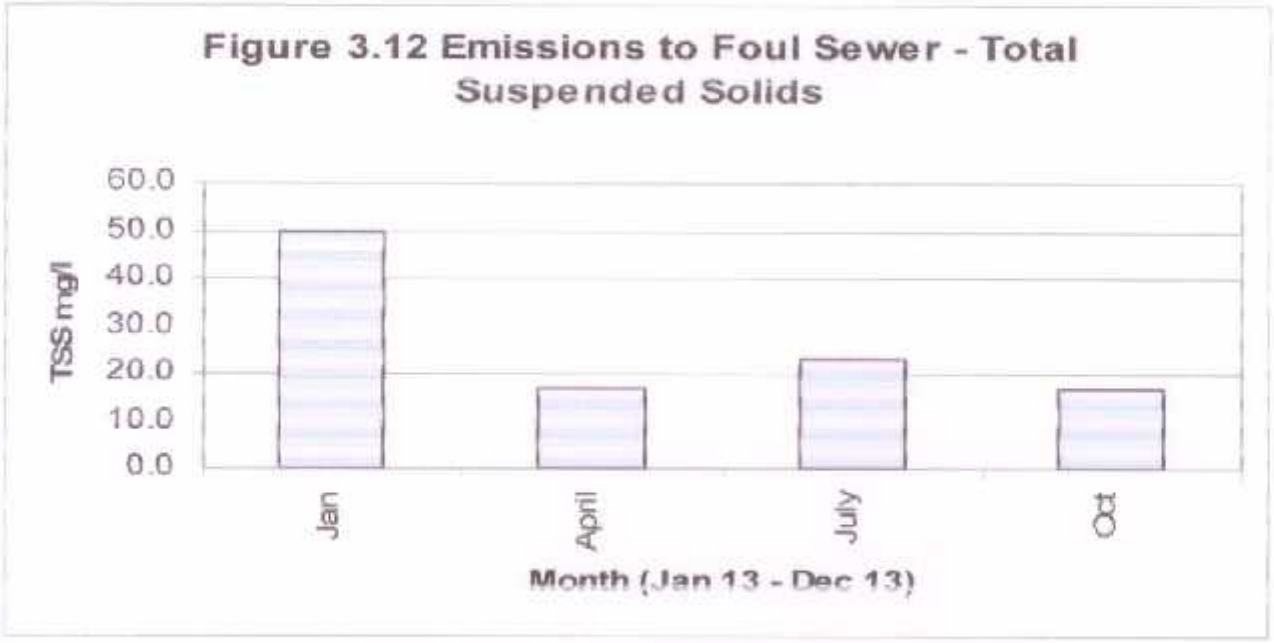

Figure 3.12 Emissions to Foul Sewer - Total Suspended Solids (ELV 2,000mg/l)

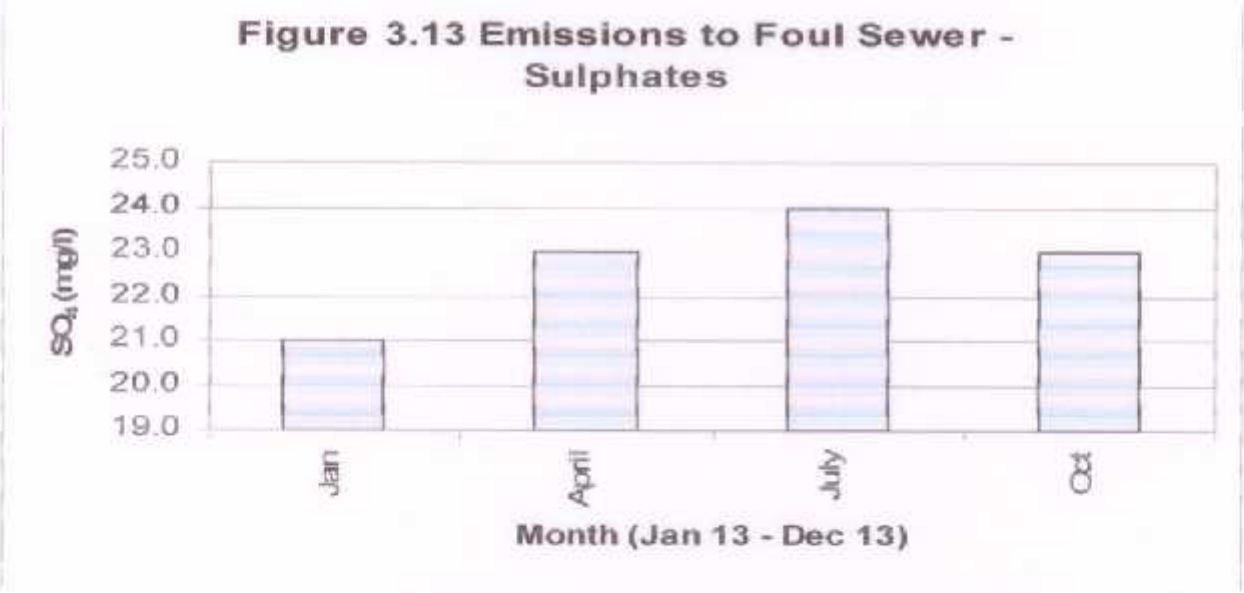

Figure 3.13 Emissions to Foul Sewer – Sulphates (ELV 500mg/l)

3.4. Noise

Noise Monitoring was carried out on 20th of November 2013. Monitoring was done for both night and day. Noise monitoring results are presented below in Table 3.2.

Daytime				
N1				
	Boundary	62	65	56
N2	Boundary	60	63	56
N3	Boundary	60	61	55
N4	Boundary	60	63	54
N5	Nearest NSL	62	63	59
Night-time				
N1				
	Boundary	50	52	47
N2	Boundary	50	51	48
N3	Boundary	51	53	47
N4	Boundary	50	51	47
N5	Boundary	56	58	50

Table 3-2 Noise Monitoring Results Summary

NSL = Nearest Noise Sensitive Location.

The marginal noise increase over the on-site noise limit for day time at N3 was due to the nearby amenity related activity, however, the noise levels off-site from this activity would be below 55dBA Leq 30 minutes due to attenuation of distance and topography of the receiving area outside the site boundary. The marginal excess over the on-site noise limit at location N2 is attributed to the trucks entering and exiting the site (the entrance being close to the monitoring location), however off-site the noise level would be below 55 dBA by virtue of attenuation by distance and topography. The noise emissions from the facility would be below 55 dBA Leq 30minutes at all locations outside the boundary of the facility.

The noise emissions were well within the noise limits for night –time at all locations. The noise emissions were inaudible and below the noise limits for day time and night at the NSL (location N5). There was no clearly audible tonal component or impulsive emission from the facility at any monitoring location during the day time or night-time.

It must also be noted that the site is located within a busy industrial estate and the existing ambient noise climate is already above the threshold limits.

3.5. Dust and Air Quality Monitoring (PM10)

Dust monitoring was carried out during May to August 2013. PM_{10} monitoring was carried out during August 2013. Monitoring occurred at three locations during the reporting period and was in full compliance with Condition 8.1. The monitoring established the impact of site operations on localised Air Quality. Results of this monitoring are presented in Table 3.5. The Dust results for D1, D2 and D3 are in compliance with guideline limits values (TA Luft Dust- 350 $mg/m^2/day$). PM_{10} results are also in compliance with guideline limits (EC/1999/30 PM_{10}- 50 ug/m^3).

D1	28	45	30	12
D2	23	31	48	8
D3	35	64	18	19

Table 3-3 Dust and PM10 Monitoring Results

3.6. Odour Monitoring

Table 3.4 sets out the results for odour concentrations from direct stack monitoring of the odour control system.
Direct monitoring of the odour abatement stack allows for the assessment of the performance of the odour control system. The system is monitored for mechanical performance, volumetric airflow rate (EN13248-1:2002), static pressures (ISO10780:1994), odour threshold concentration (EN13725:2003) and PID VOC's (USEPA TM21A) to assurances to that the odour control system is achieving adequate performance to prevent odours causing impact beyond the site boundary. The gathered odour is inputted into a dispersion model (AERMOD Prime 07026) with 10 years of meteorological data (Dublin 1997 to 2006 inclusive), which allows for the assessment of the odour control system in accordance with Irish and UK EPA requirements and guidelines (odour isopleths of less than or equal to 3.0 Ou_E/m^3 at the 98th percentile of hourly averages for 10 years of meteorological data).

Outlet 1 & 2 Sample Average Period	Outlet Threshold Concentration $Ou_E m^{-3}$	Volumetric Air Flow Rate (m^3s^{-1})	Odour Emission Rate From Carbon Filtration System $Ou_E s^{-1}$
March	457	20.71	9,475
June	376	21.02	7,914
September	407	25.18	10,239
December	376	24.95	9,393

Table 3-4 Odour Concentrations.

3.6.1. Interpretation of Monitoring Results

3.7.1 Surface Water Background Monitoring and Emissions to Surface Water

The background surface water monitoring results indicate that the levels of analyses detected downstream of the facility did not exceed the values detected upstream in 2013. An elevated level of 38mg/l was recorded upstream of the facility in April 2013.

Sample collection and analysis of surface water emissions were carried out at SWE1A once during the reporting period s. Analysis of SWE1B was not undertaken for the period due to a lack of rainfall events. Future samples of surface water will be taken by council staff during adequate rainfall events to insure complete analysis.

3.7.2 Emissions to Foul Sewer

There was no exceedence of the ELVs recorded in Schedule C.4 of the Waste Licence over 4 sampling events in 2011.

3.7.2.1 pH

pH results were typically neutral to alkaline during the reporting period.

3.7.2.2 Temperature

Temperature was recorded on two occasions during the reported period. The temperatures recorded were within the specified limits as set out in Schedule C.4 of the Waste Management Licence. The temperature recorded for this reporting period ranged between 10 and 21°C .

3.7.2.3 Biochemical Oxygen Demand

No exceedence occurred during the monitoring period. The maximum and minimum BOD levels were recorded at 5 mg/l and 66 mg/l respectively. The Average level was 24.3 mg/l.

3.7.2.4 Chemical Oxygen Demand

All levels measured during the reporting period were compliant with the Emission Limit Value as set out in the Waste Licence W0003-03. The levels ranged from 12 mg/l to 151
mg/l. The Average level was 76 mg/l

3.7.2.5 Ammonia

No exceedence was reported during the previous reporting period. The Average level was 8.2mg/l. The maximum level was measured at 16 mg/l.

3.7.2.6 Total Suspended Solids (TSS)

No exceedence was reported during the previous reporting period. Average levels were 26.8 mg/l with a maximum figure of 50 mg/l recorded.

3.7.2.7 Oils Fats and Grease (OFG)

All recorded values during the reporting period were compliant with the Emission Limit Value as set out in the Waste Licence 0003-03. The average level recorded for the year was 14.7 mg/l.

3.7.2.8 Detergents

As with the previous reporting year, all samples for this period indicate compliance with the ELV for detergent emissions to foul sewer. The levels throughout the period recorded less than 0.06 mg/l.

3.7.2.9 Sulphates

All samples for this period indicate compliance with the ELV for detergent emissions to foul sewer. The average levels recorded for this reporting year was 22.8mg/l, with a maximum value of 24.0mg/l recorded.

3.7.3 Noise

The results presented in Table 3.2 indicate that daytime and night-time noise levels recorded exceeded limits at 10 of the monitoring points during daytime and night-time monitoring.

Road traffic was the dominant source of noise ($L(A)_{10}$) at all of the locations, which primarily emanates from the busy Greenhills Road which adjoins the site and the M50 motorway.

These results indicate that the facility has no significant impact on the surrounding environment. There were no complaints received at the baling station for noise nuisance.

3.7.4 Dust and Air Quality Monitoring (PM_{10})

The results presented in Table 3.3 indicate that the TA Luft limit for dust deposition ($350mg/m^2/d$) was not exceeded during the reporting period at monitoring locations (D1-D3).

One set of monitoring results was obtained for PM_{10} levels at locations D1-D3. None of the results for PM_{10} exceeded the Emission Limit Value as set out in the Waste Licence 0003-03.

3.7.5 Odour Monitoring

Direct Odour monitoring of the abatement stack was carried out on a quarterly basis during the reporting period.

To support daily odour inspections carried out by the Environmental Manager or suitably qualified person, quarterly odour monitoring was initiated as required per licence W0003-03. Independent monitoring consultants conducted the quarterly monitoring at the facility. On completion of the monitoring, a report is issued assessing the impact of the operation on its environs. The assessments are presented in the form of odour concentration contours produced using US EPA approved dispersion modelling techniques.
All direct stack odour threshold concentrations had an average range between 376 OU_E/m^3 and 457 OU_E/m^3 for the reporting period 2013.

One complaint was received at the facility during the 2013 reporting period. No distinct odours were detected within the vicinity of the period throughout the year. All ambient air concentrations of TVOC represented characteristics of traffic based emissions.

4. SITE DEVELOPMENT WORKS

Works undertaken to, at a minimum, comply with the Licence conditions during the reporting period are summarised in Table 4.1.

Erect new signage at the Civic Amenity	Achieved
Expand acceptance of recyclables in the Civic Amenity	Achieved.

Table 4-1 Site Development Works during Reporting Year

Requirement	Time Scale
Erection of new safety barriers at Civic Amenity	March 2014
Installation of 3rd baler in the Baling Station	May 2014

Table 4-2 Site Development Works for the Forthcoming Year

5. WASTE RECEIVED BY AND CONSIGNED FROM THE FACILITY

5.1. Wastes Pre-Treated, Baled and Compacted

5.1.1 Waste Composition

Municipal Solid Waste (MSW) and cleansing waste was accepted at the waste transfer station from Dublin City Council along with cleansing waste from South Dublin County Council and non-recyclable waste from the Civic Amenity Facility until February 2012. South Dublin County Council ceased collecting MSW waste on 31st March 2011.
In February 2013 South Dublin County Council entered into a licence agreement with Panda Waste Services for the operation of the waste transfer station only. From February 1st 2013 MSW was accepted at Ballymount waste transfer station from Panda Waste Services, the Civic Amenity and other permitted third party waste collectors. The quantities of waste accepted at the Waste transfer station only are summarised in Table 5.1.

Dublin Corporation (DCC)	0	3,560	62,172	89,340	103,236	119,988
South Dublin County Council (SDCC)	0	0	8,498	44,283	54,396	57,509
Civic Amenity	2,658.95	3,419	10,065	9,731	10,738	11,187
Panda Waste Services & Other	106,858.47	0	2,199	4,685	5617	8,946
Total	109,517.42	6,979	82,934	148,039	173,987	197,632

Table 5-1 MSW Quantities into Facility

5.1.2 Baled and Compacted Waste Quantities

Monthly quantities of treated, baled and wrapped waste sent to incineration as EWC 191212 are shown in Figure 5.1.

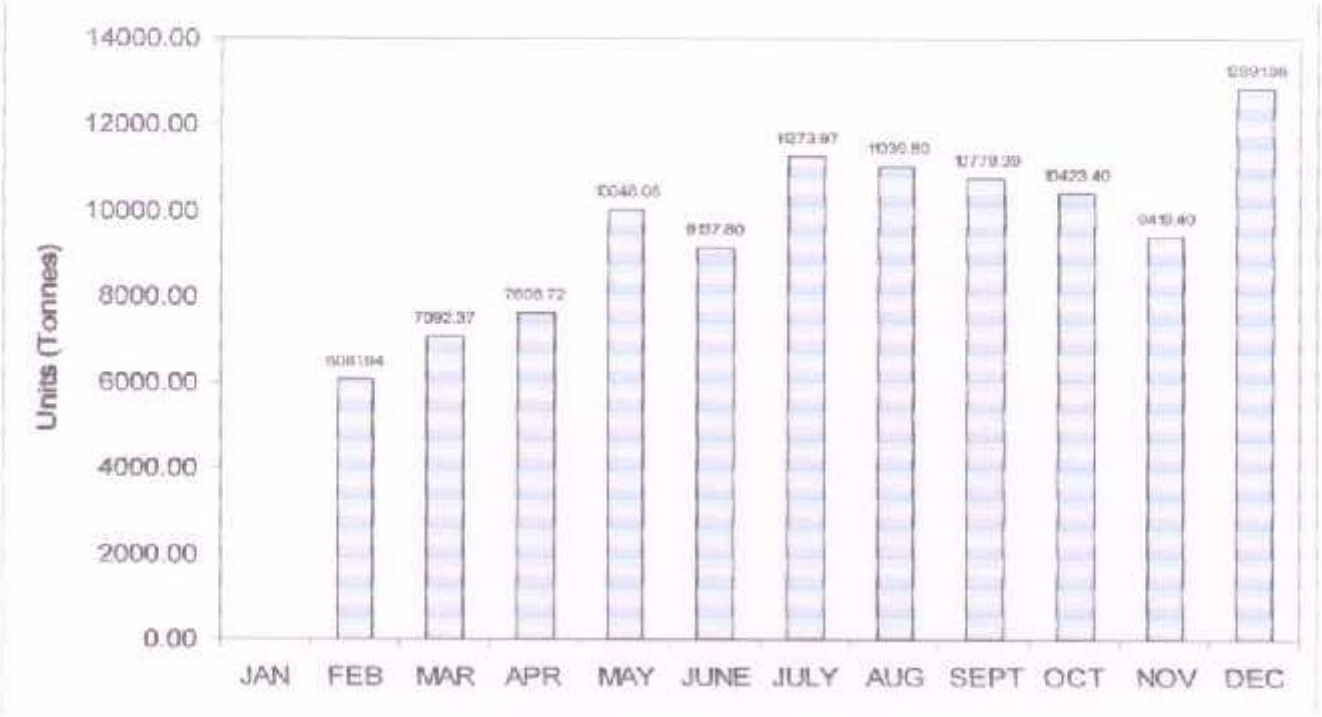

Figure 5.1 Monthly Waste Quantities to Incineration 2013

5.1.2 Treatment of MSW Quantities 2013

The following tonnages were recovered following the treatment of MSW:

- Organic Fines: 1,015.65
- Bulky Waste: 426.4
- Steel: 473.22

5.2. Civic Amenity

5.2.1 Waste Composition to Civic Amenity

The Civic Amenity Facility is a waste deposit facility for recyclable and non-recyclable waste delivered by members of the general public. Receptacles are provided for the deposit of glass, textiles, plasterboard, rubble, household hazardous, waste oil, paper, green waste, waste oil, batteries, beverage cans, plastics, scrap metal and white goods/ electrical items. Quantities of each of these wastes received are shown in Table 5.2 and Figure 5.2.

Bulky waste referred to in Table 5.2 consists of waste, which due to its bulky nature is unsuitable for baling/compaction. This waste typically is consists of furniture, timber and mattresses, in general, materials that cannot be compacted to produce physically stable bales.
Bulky waste was collected in bins at the Civic Amenity and is sent off site for recovery.

6. NUISANCE CONTROL

6.1. Odour Control

Historically odour was the largest source of nuisance for the facility resulting in 100% of all complaints received at the facility.

6.1.2 Daily Odour monitoring

In compliance with Condition 10.3 of the Waste Licence, a daily odour inspection of the facility environs is carried out and staff of the Council's Environmental Services Department keeps a written record.

6.1.3 Quarterly Odour Monitoring

In Compliance with Schedule D.6 of the Waste Licence, an independent contractor carries out quarterly odour monitoring.

6.1.4 Odour Emission control system

The in-situ odour emission control system is a dry dust filtration and annular bed activated carbon filtration system. The annular activated carbon filtration unit provides improved guaranteed odour removal efficiencies and also provide an increase in treatment capacity for the facility.

- Increased design treatment capacity of approximately 25,000 m3/hr and a maximum increased treatment capacity of up to 30,000 m3/hr.
- Increased odour threshold concentration performance to 300 OuE/m3.
- Continuous performance independent of cyclic odour loading.
- Elimination of dust and particulate plugging of the bed medium through the use of a regenerative self-cleaning dust filtration plant.

Glass	100.87	114.4	99.12	103.94	118.54	135.81	168.08	149.84	105.55
Paper	73.28	78.38	52.70	51.62	51.68	68.67	117.06	104.54	138.78
Textiles	22.28	29.81	25.63	29.62	40.18	37.73	41.66	52.45	25.32
WEEE	668.7	748.83	781.04	855.38	873.90	882.53	662.25	740.20	590.9
Plastic	75.46	31.33	11.30	18.04	9.64	33.66	80.31	46.00	48.62
Waste Oil	24.4	32.72	43.56	36.72	26.86	47.9	32.30	35.82	34.7
Green waste	1757.73	2145.36	1,940.86	2,307.12	1850.06	1,454.58	1384.91	889.22	801.21
Batteries	12.72	13.14	14.14	21.06	23.72	27.36	57.02	66.16	36.46
Beverage cans	1.12	2.82	1.64	1.41	1.31	2.85	2.82	5.49	4.71
Metal	321.80	331.42	343.32	440.55	447.20	513.64	502.42	392.41	431.68
Black bag Waste (MSW)	3215.46	3419.11	3582.3	3653.84	3238.16	3722.62	7407.09	4189.2	3.360.2
Bulky waste	4949.85	5581.86	6483.12	6,077.04	7499.35	7464.49	1365.3	8310.6	5,549.2
Household Hazardous	35.2	33.73	33.66	24.9	29.32	45.2	85.00	43.66	28.57
Polystyrene							0.98		
Plasterboard			8.54	41.76	46.16	61.55	31.23		
Rubble / **C&D**	723.02	698.89	789.08	724.66	655.48	777.57	781.31		
Cardboard	257.98	277.84	206.78	230.2	232.49				
Waste Edible Oil	1.18	1.38	0.94	.60	0.74				
Wood	434.98	270.11	66.02	140.06	336.76				
Ink Cartridges	0.58	1.16	0.28	0.36	0.20				
Gas **Cylinders**	1.71	3.60	3.54	4.46	5.82				
Metal Packaging			.20	0.92					
Total Civic **Amenity**	12729.55	13,816.15	14,487.57	14,764.08	15,487.57	15,276.1	12,719.7	14,973	11,156

Table 5-2 Composition of Waste Received at the Civic Amenity Facility

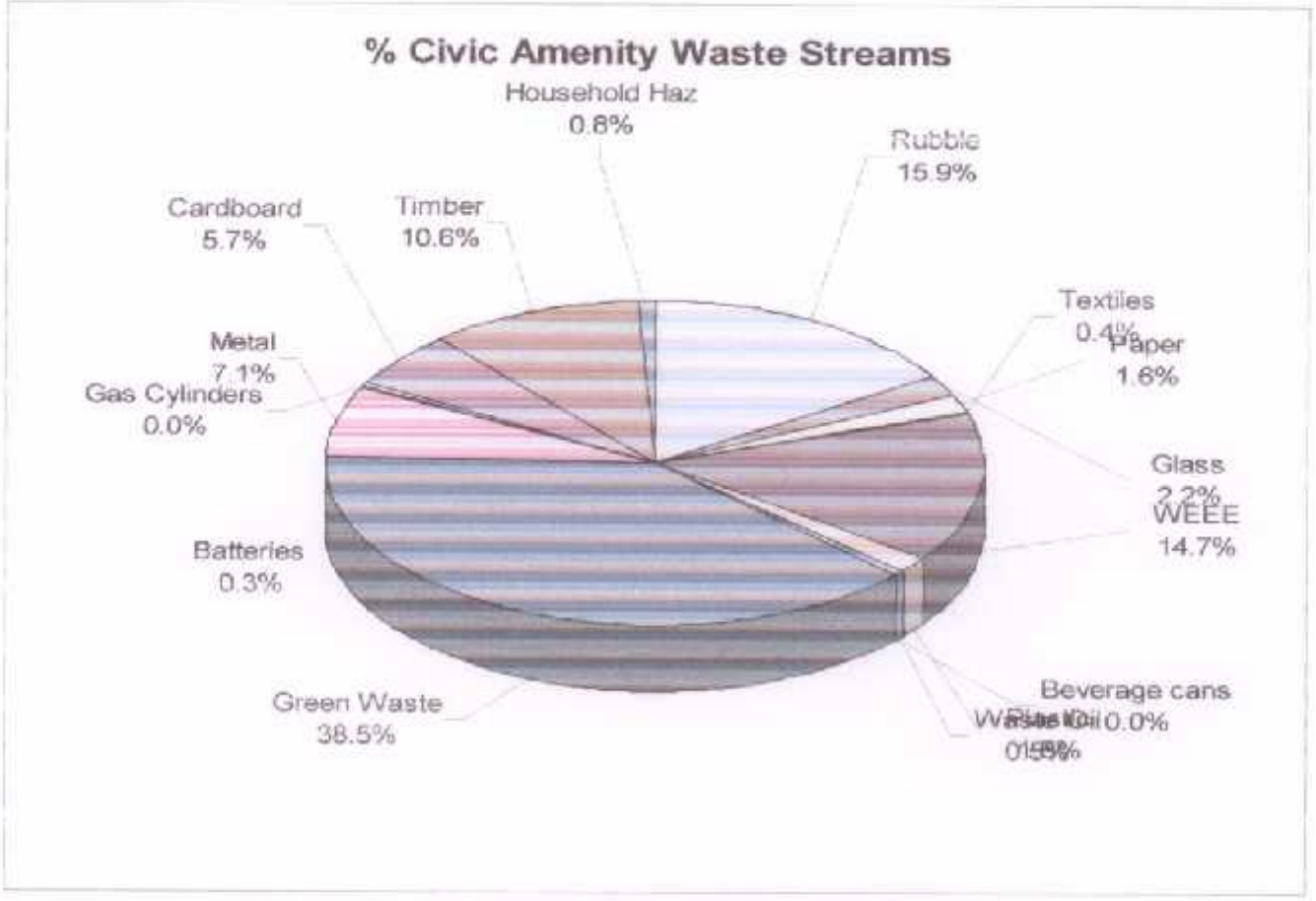

Figure 5.2 Recyclable Waste Types Received at the Civic Amenity Facility

5.3 Waste Received and handled

Waste received at the baling facility during the reporting period amounted to 109,517.42 tonnes, which is 214,962.58 tonnes below the Licence limit of 324,480 tonnes per annum

The following figure is a summary of the waste movements to and from the facility. Small differences in quantities entering and leaving the site are due to the 4% allowed tolerance error on the weighbridge (Class III accuracy: Source EN45501: 1992).

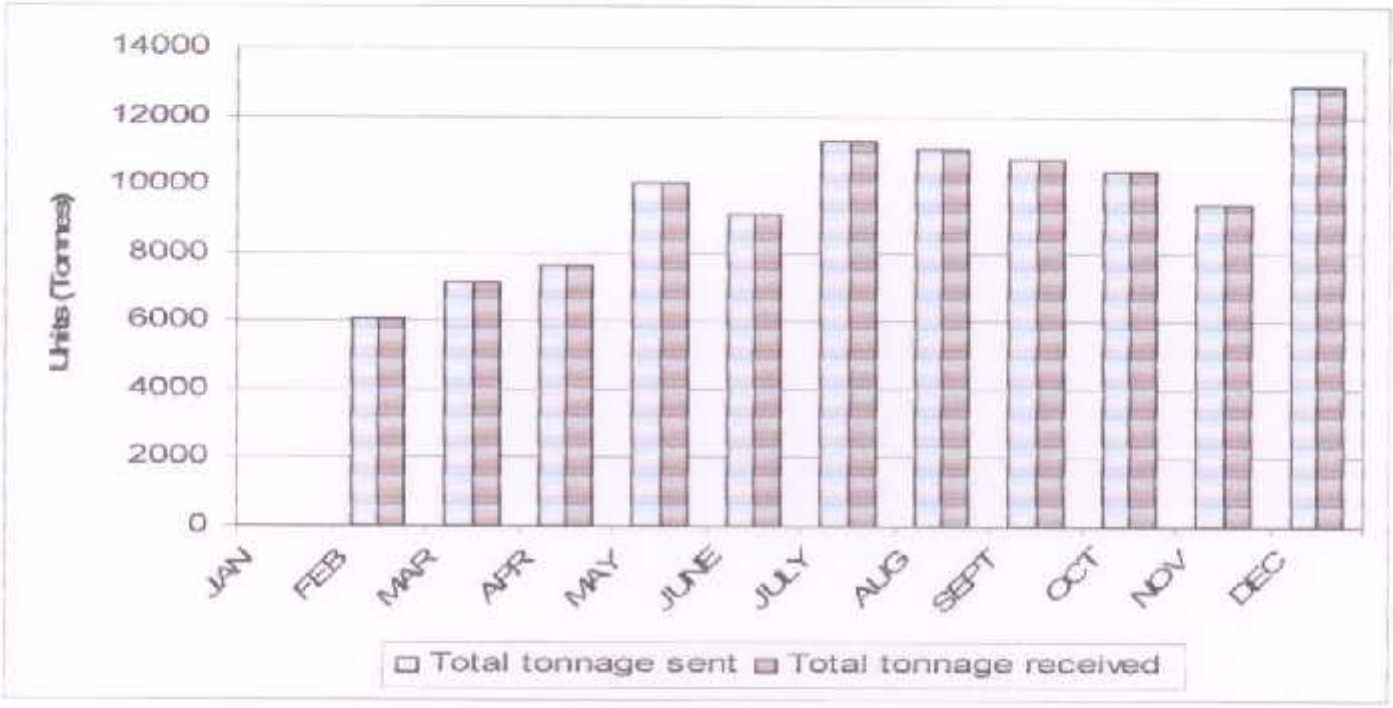

Figure 5.3 Tonnage Received and Sent in 2013 to the Baling Station and to Incineration or recovery

6.2. Litter Control

In compliance with Condition 7.4 of the Waste Licence, the licensee removes any litter in or around the facility immediately. An Iveco watering/sweeping machine is present on site at all times. No complaints were received at the baling station for litter nuisance

6.3. Dust Control

In compliance with Condition 7.6 of the Waste Licence, in dry weather the roads and hard standing areas are sprayed with water as and when required. No complaints were received at the baling station for dust nuisance

6.3.1. Dust Monitoring

In Compliance with Schedule D.6 of the Waste Licence, an independent contractor carries out dust monitoring three times a year.

7. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

7.1 Incidents Summary

Condition 11.2 of the Waste Licence requires that the licensee shall make written records of the environmental incidents. There was 1 incident recorded during the reporting period.

7.1. Complaints Summary

There was one complaint received from local residents or commercial interests during the reporting period.

7.2. Corrective Action

7.2.1. Surface/Foul water emission incident

- All interceptors emptied and cleaned when required and at a minimum of every two weeks by licensed contractors. The surface water drainage system is cleaned every quarter.

7.1.1 Fast Acting Doors.

- All 6 doors into the baling shed and waste reception area comprise of fast acting roller shutter doors.
- All doors were serviced in March 2013.
- Air curtains are installed to door at the waste reception to prevent odours escaping when doors are in operation.
- Door contractor is contracted to work on the door on the same day.
- Complete set of spares for both size doors on site.

7.3.3 Odour

- An activated carbon odour control unit is in place to treat malodorous air.
- Daily odour inspections conducted.
- Quarterly Odour monitoring conducted by independent consultants.
- The activated carbon was replaced in May 2013.
- The dust filters were replaced in November 2013.

7.3. Non-Compliance Summary

No non-compliances were received at the facility during the Reporting period:

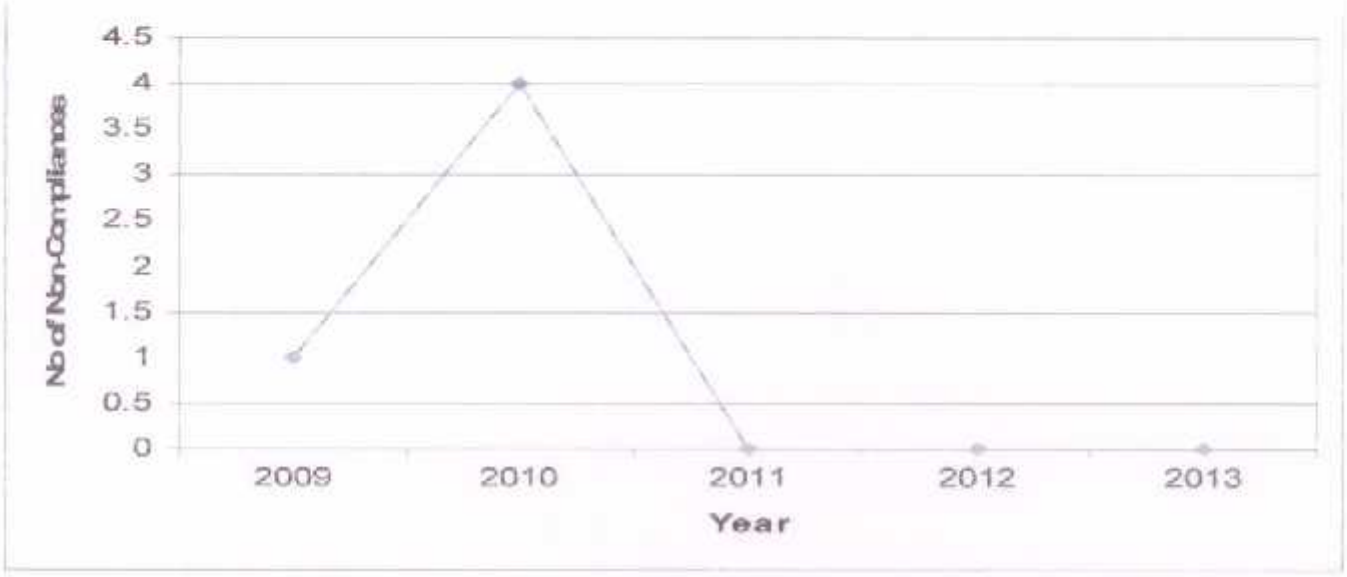

Figure 7.1 Number of Non Compliances

8. ENVIRONMENTAL MANAGEMENT PROGRAMME

8.1. Report

In compliance with Condition 2.3 of the Waste Licence, a review was carried out of the Environmental Management Plan (EMP); the reviewed EMP was last submitted to the Agency for agreement on the 31st March 2012.
A review of The Environmental Management Plan was conducted in 2013 and a copy kept onsite at the facility.
Site operational procedures are described in the EMP.
The schedule of Environmental Objectives and Targets for the reporting year, and a proposal for the forthcoming year, are summarised below.

8.1.1. Schedule of Environmental Objectives and Targets

A detailed Schedule of Environmental Objectives and Targets for the reporting period is presented in Table 8.1.

8.1.2. Achievement of Environment Objectives and Targets

In all cases the Council has made significant efforts to achieve all of the targets set by the individual objectives. Not all targets were achieved within the reporting period but corrective measures were put in place when difficulties were encountered. A summary of the targets achieved is presented in Table 8.1.

The overall responsibility for achieving these objectives and targets lies with the Senior Engineer of South Dublin County Council and Managing Directors of the Facility Management. Items referred to within these objectives are site specific and are the combined responsibility of the Council's Environmental Manager and The Facility Manager.

Objective/ Target	Description	Status
Objective 1	**To ensure continued implementation of the environmental Policy**	
Target 1.1	Continue to conduct Environmental Training refresher course for all Baling Station Staff.	Achieved- Ongoing.
Target 1.2	MEWP Training	Achieved
Target 1.3	Manual Handling Training	Achieved
Objective 2	**To promote public awareness of the facility and encourage use of the civic amenity/recycling facilities**	
Target 2.1	Further expansion of recycling facilities at the Civic Amenity Facility by increasing the number of waste types accepted for recycling.	Achieved
Target 2.2	To hold an open day for the facility where members of the local community will get a guided tour of the facility and its operations	Achieved

Target 2.3	Expand on the web site for Ballymount detailing all services, costs & destination sites.	Not Achieved
Target 2.4	New Civic Amenity Signage	Achieved
Objective 3	**To Continue site development/improvement**	
Target 3.1	Develop Tetrapak recycling.	Not Achieved
Target 3.2	Develop Carpet and Mattress Recycling	Not Achieved
Objective 4	**To minimise the environmental impact arising from nuisance caused by the facility**	
Target 4.1	Installation of Rain Water Harvesting	Not Achieved
Target 4.2	Reduction of water consumption	Achieved
Target 4.3	Decrease in the use of electricity	Achieved
Objective 5	**To comply with Emission Limit Values in Schedule E of Waste Licence**	
Target 5.1	Reinstall Bio-Tubes to all interceptors to reduce OFG levels.	Achieved
Target 5.2	Install new Dust Filter Cartridges in odour control system	Achieved
Target 5.3	Replace Activated Carbon in odour control system.	Achieved
Objective 6	**To successfully control emergencies at the facility**	
Target 6.1	Install a new advanced Fire detection system	Achieved
Target 6.2	Review and update of site health and safety plan and site risk assessments	Achieved
Target 6.3	Review of emergency response procedures	Achieved

Table 8-1 Achievement of Environment Objectives & Target

8.2. Proposal

The Environmental Objectives and Targets proposed for the forthcoming year (listed in Table 8.2) are based on the requirements of the current Waste Licence. However, should the Agency grant a revised licence within this period, the proposed schedule would in turn require revision to reflect any new conditions.

Table 8-2 Proposed Environment Objectives & Targets for 2013

Target Number	Description	Time Frame	Responsibility
Target 1.1	Continue to conduct Environmental Training refresher course for all Baling Station Staff.	30th June in 2014	Env. Manager
Target 1.2	Forklift Training	1st September 2014	H&S Manager
Target 1.3	Manual Handling Training	30th May 2014	H&S Manager
Target 1.4	Mechanical Grab Training	1st September 2014	H&S Manager
Target 1.5	Front End Loader Training	1st September 2014	H&S Manager
Target 1.6	MEWP Training	31st March 2014	H&S Manager
Target 2.1	Further expansion of recycling facilities at the Civic Amenity Facility by increasing the number of waste types accepted for recycling.	31st December 2014	Env. Manager
Target 2.2	To hold an open day for the facility where members of the local community will get a guided tour of the facility and its operations	30th April 2014	Env. Manager
Target 2.3	Provide a specific web site for Ballymount detailing all services, costs & destination sites.	31st December 2014	Env. Manager
Target 2.4	Installation of new guardrails in Civic Amenity	31st March 2014	Env. Manager
Target 3.1	Develop Tetrapak recycling.	31st June 2014	Facil Manager.
Target 3.2	Painting of Civic Amenity	31st Aug 2014	Facil Manager
Target 4.1	Reduction of water consumption	31st Dec 2014	Facil Manager
Target 4.2	Decrease in the use of electricity	31st Dec 2014	Env. Manager
Target 4.3	Decease in use of plastic wrapping	31st Dec 2014	Facil Manager
Target 5.1	Reinstall Bio-Tubes to all interceptors to reduce OFG levels.	30th Apr 2014	Env. Manager.
Target 5.2	Replace Activated Carbon in odour control system.	31st May 2014	Env. Manager
Target 5.3	Installation of Third Baling Machine.	31st Aug 2014	Facil Manager
Target 6.1	Review and update of safety statement, site health and safety plan and site risk assessments	31st Dec 2014	H&S Manager
Target 6.2	Training of site Fire warden	31st Dec 2014	H&S Manager
Target 6.3	Review Occupational Health and	31st Dec 2014	H&S Manager

8.3 Operational and Environmental Procedure

Documented operating procedures for the Waste transfer station, which are described in detail in the Environmental Management Plan are sub-divided as follows: -

- Standard Operating Procedures
- Environmental Procedures
- Emergency Response Procedures

A brief summary of these is provided below.

8.3.1. Standard Operating Procedures

Standard Operating Procedures have been developed for each of the routine operations conducted at the facility. The purpose of these is to ensure that routine tasks are carried out in the same manner each time they are undertaken, even if different operators perform them. Their implementation will encourage quality as well as safe work practices. Regard is also had for the site specific Safety Statement when carrying out any operations at the facility.

The routine operations identified are as follows:

- SOP 001- Weighbridge operation
- SOP 002- Waste Acceptance at the Waste transfer and Civic Amenity Facility
- SOP 003- Compaction of waste
- SOP 004- Loading and shunting of containers
- SOP 005- Environmental Monitoring;
- SOP 006- Housekeeping;
- SOP 007- Operation Of Odour Control System
- SOP 008- Operation/Maintenance Of Wastewater Treatment Works
- SOP 009- Opening/Closing Of Waste Reception Shutters
- SOP 010- Weekly Drainage Inspection
- SOP 011- Fuel Storage and Pollution Control Inspection
- SOP 012- Weekly Interceptor Inspection
- SOP 013- Monthly Over ground inspection Form
- SOP 014- Emergency Generator Operation/Maintenance
- SOP 015- Nuisance Inspection

8.3.2. Environmental Procedures

Environmental procedures have been developed in order to maintain the Environmental Management System and to ensure continued improvement in the operation and management of the facility. Environmental Procedures are subject to change on evaluation.
The Environmental Procedures are as follows:

- EPROC 001- Corrective Action Procedures
- EPROC 002- Awareness and Training Procedures
- EPROC 003- Incident Response and Reporting Procedures
- EPROC 004- Complaints Procedures

8.3.3 Emergency Response Procedures

Condition 10.1 of the Waste Licence requires that a written Emergency Response Procedures (ERP) be submitted. An updated document describing these procedures was updated in April 2013. Emergencies have been defined as unexpected events, which prohibit the waste processing operation or reduce waste processing capacity, or any occurrence resulting in non-compliance with the conditions of the Waste Licence. Potential emergencies at the facility can be grouped under the following headings: -

- inability to process waste.
- Inability to transport waste to receiving facility.
- Threats to staff health and safety.
- Threats to the environment.

The ERP document, which is maintained in the facility office, contains detailed procedures and a list of emergency contact numbers to be used in the event of an emergency. A copy of the Council's "Major Emergency Plan" is also maintained in the facility office.

8.3. Management and Staffing Structure

The Council, as the licensee, operates the facility under the terms of an agreement with both Greenstar and Panda Waste Services. The organisational structure for the facility is shown in Figure 8.1.

Operations at the facility are carried out in two distinct areas, namely the Waste transfer station and the Civic Amenity Facility. The Joint Venture Management Committee, the Environmental Manager, the Facility Manager and the Operations Supervisor have delegated responsibilities for operations management and supervision in both areas.

Each of the positions identified in Figure 8.1 are discussed in detail in Section 6 of the Environmental Management Plan for the reporting year. Details of the relevant experience and qualifications for each person named, as well as arrangements for absence in the case of annual leave, illness and other absences, are maintained in the facility office and have also been forwarded to the Agency as required by Condition 2.2.

A file consisting of training records for each employee is also maintained in the facility office.

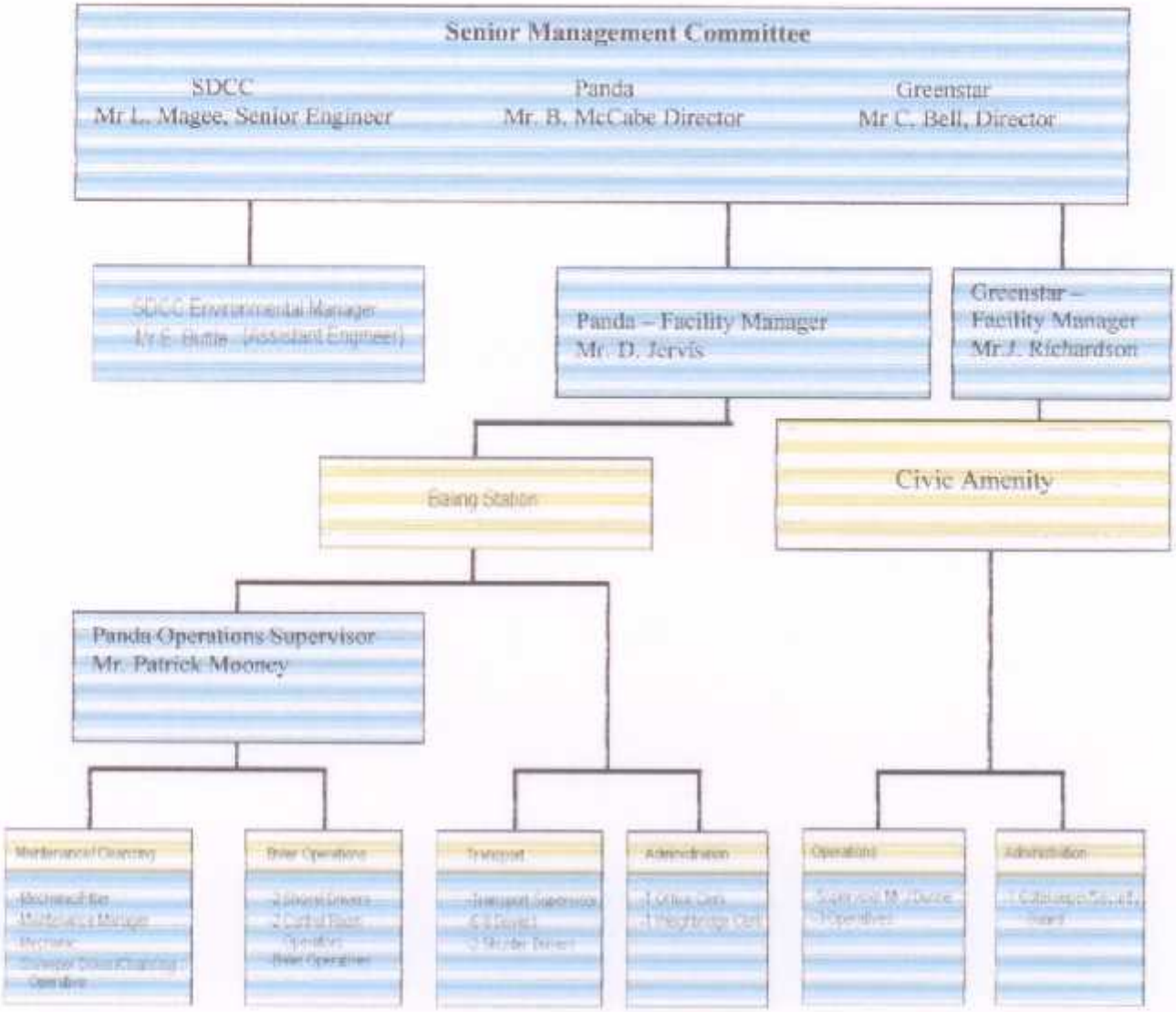

Figure 8.1 Management and Staffing Structure

9. TANK AND BUND TESTING

Condition 3.13.5 of the Waste Licence requires that tank and bund testing be carried out once every three years. All Bunds on-site were tested to BS8007: 1987, in 2012. At the end of 2013 reporting period all onsite Bunds met the requirements.

10.RESOURCE CONSUMPTION SUMMARY

Resources consumed at the facility include electricity, water, diesel fuel, steel wire, cleaning products, odour products and hydraulic oil. The principle consumers of energy at the facility are summarised in Table 10.1. Resource consumption is also presented in table 10.2 and figures 10.1 - 10.3.

[illegible]	[illegible]
Baling/ Ancillary Equipment	Electricity and Hydraulic Oil
Odour Control System	Electricity and Water
Mobile Plant	Green Diesel and Hydraulic Oil
Road Transfer Fleet	White Diesel

Table 10-1 Principle Resource Consumers

[illegible]	[illegible]
Diesel Fuel	61,472 litres
Bale Netting	73.92 tonnes
Electricity	896,837 kWh
Water	1495 m^3
Cleaning Agents Grime Away Clean Air	2,000 kg 160 kg
Plastic Wrap	291.5 tonnes

Table 10-2 Energy and Resources (January 11 – December 11)

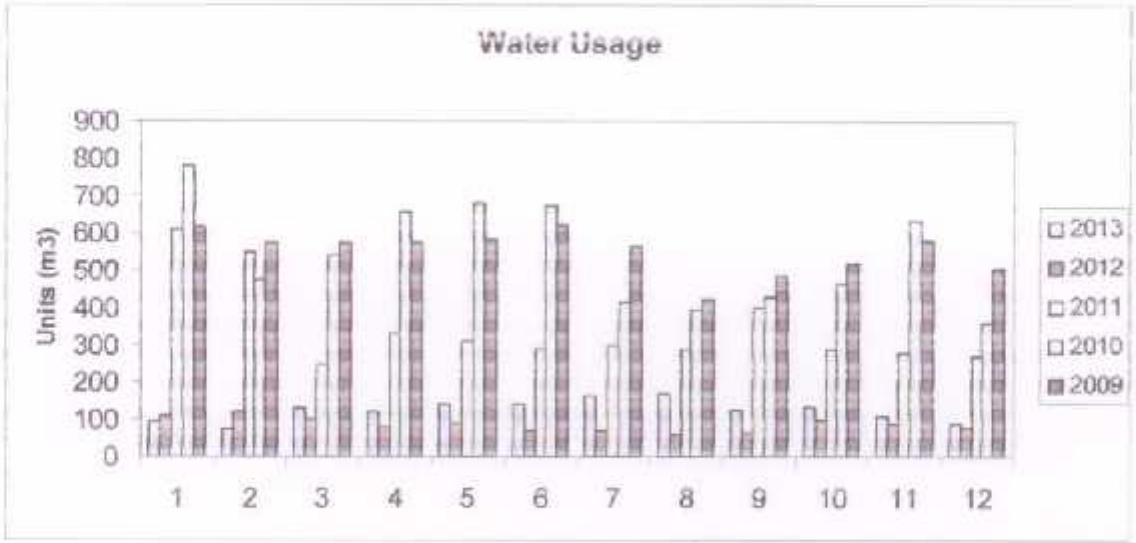

Figure 10.1 Water Use

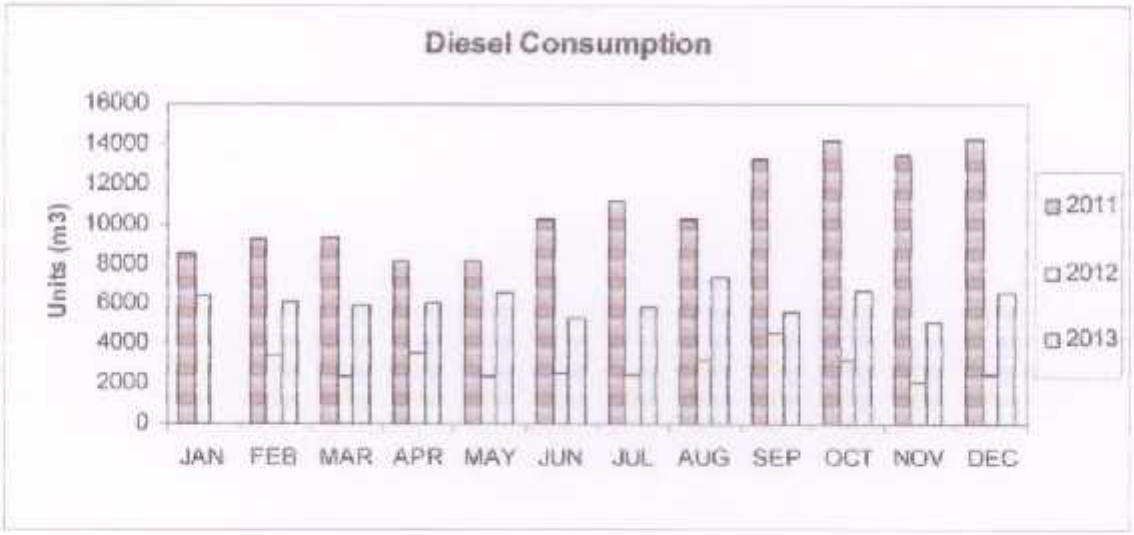

Figure 10.2 Diesel Consumption

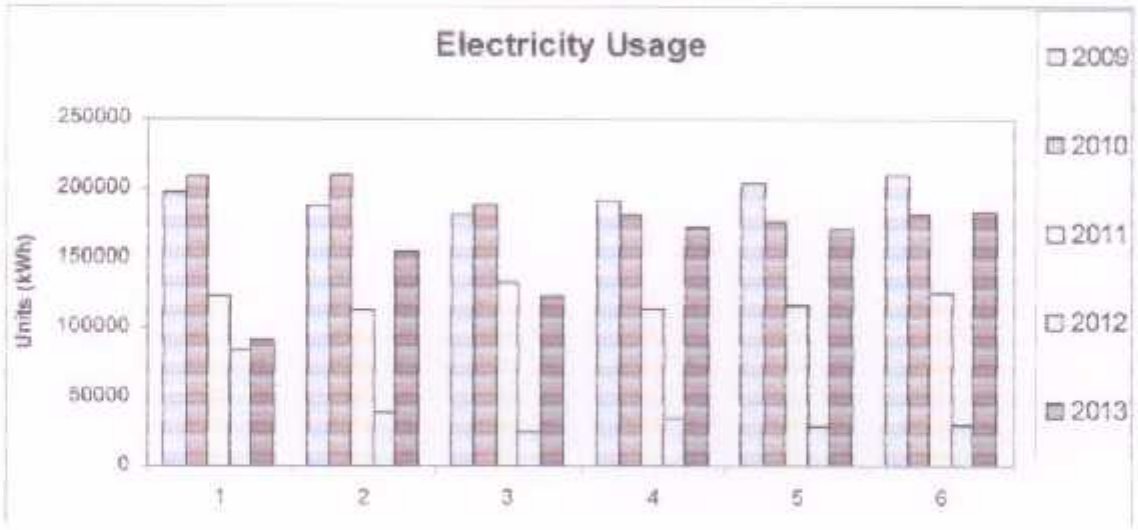

Figure 10.3 Electricity Consumption

11.REPORT ON PUBLIC INFORMATION FILE

During the 2011 reporting period there was no application received to see the public inspection file.

Pertinent documentation available for public inspection include:

1. Environmental Record File
2. Environmental Monitoring Reports File (Volumes 1-4)
3. Complaints Register
4. Waste Licence
5. Environmental Management Plan
6. Emergency Response Procedures

Members of the public, who wish to view information describing environmental performance of the facility in 2014, can do so by phoning the facility. The facility contact numbers are posted on the main facility entrance sign. The names of the appropriate personnel are as follows:

Mr. David Jervis
Greenstar
Facility Manager

Mr. Eoin Buttle
South Dublin County Council
Environmental Manager

12. SITE OPERATIONS

12.1. Duty and Standby Capacity of Waste Handling Plant

With the introduction of licence W0003-03 the maximum quantity of municipal waste to be accepted at the facility has decreased to 324,480 tonnes. In compliance with condition 1.7 of the waste licence the hours of operation has been increased 6:30a.m. to 9:00 p.m. Monday to Saturday inclusive.

The total baling capacity of the machines is 45 tonnes/hr, which suggests an annual 100% uptime capacity of 203,580 tonnes. During this reporting period the facility was closed for 2 days at Christmas, and a monthly average of less than 4% operational downtime. The quantity of municipal waste baled for energy recovery at the facility for the reporting period was 105,767.57 tonnes.

This suggests the Duty Capacity of the waste handling equipment was 203,580 tonnes and the Standby Capacity was 97,812.43 tonnes (48%) for this reporting period.

12.2. Ventilation plant capacity and Spares

The Odour emissions control system was installed 10th December 2007 on the receiving and waste areas of the facility. The unit was installed to the following performance design:

- Volume Flow Rate *100,000 m³/hr*
- Inlet Odour Capacity *5,000 OUe/m3*
- Outlet Odour Concentration *150 OUe/m3*
- Temperature *Ambient*
- Relative Humidity *50-100 %*
- Stack Height *12m*
- Stack Diameter *1.6m*

Spares for the odour and emissions control system are kept on site in the western storage area, these include:

Fan Spares:

Component	No. off
Bearing set for fans	2 No.

Dustfilter Spares:

Filter Cartridge	6 No.
Diaphragms	15 No.
Solonoids	15No.
Carbon Spares:	3 Tonnes

APPENDIX

Parameter	Sample Point	Licence W0003 (mg/l)	Jan	April	Aug	Oct
pH	1(us)	5.5 - 9.0	7.7	7.5	8.0	7.9
	2(us)	5.5 - 9.0	7.6	7.6	8.0	7.9
	3(ds)	5.5 - 9.0	7.7	7.8	8.0	8.0
BOD	1(us)	25.0	6.0	18.0	12.0	<2
(mg/l)	2(us)	25.0	7.0	14.0	12.0	<2
	3(ds)	25.0	6.0	8.0	9.0	<2
COD	1(us)	150.0	22.0	79.0	23.0	<4
(mg/l)	2(us)	150.0	22.0	55.0	21.0	<4
	3(ds)	150.0	27.0	28.0	17.0	<4
Suspended Solids	1(us)	35.0	12.0	38.0	3.0	4.0
(mg/l)	2(us)	35.0	11.0	33.0	3.0	2.0
	3(ds)	35.0	16.0	17.0	2.0	4.0
Mineral Oil	1(us)	5.00	0.07	0.84	0.03	0.04
	2(us)	5.0	0.08	0.84	0.02	0.09
	3(ds)	5.0	0.15	0.53	<0.01	0.07

Table 12-1 Surface Water Monitoring Results

*us – upstream of baling centre
ds – downstream of baling centre

Parameter	EIV	Jan	April	Aug	Oct
pH	5 - 10	7.8	7.0	7.6	7.5
Temp (°C)	<42oC	NR	10.0	21.0	NR
BOD5 (mg/l)	10,000	13.0	66.0	5.0	13.0
COD (mg/l)	30,000	111.0	151.0	12.0	30.0
Ammonia-NH4 (mg/l)	50	1.1	13.0	16.0	2.5
TSS* (mg/l)	2,000	50.0	17.0	23.0	17.0
OFG **(mg/l)	100	25.0	8.0	13.0	23.0
Detergents (MBAS)(mg/l)	100	0.6	0.2	0.2	0.5
Sulphates (SO4) (mg/l)	500	21.0	23.0	24.0	23.0

Table 12-2 Emissions to Foul Sewer

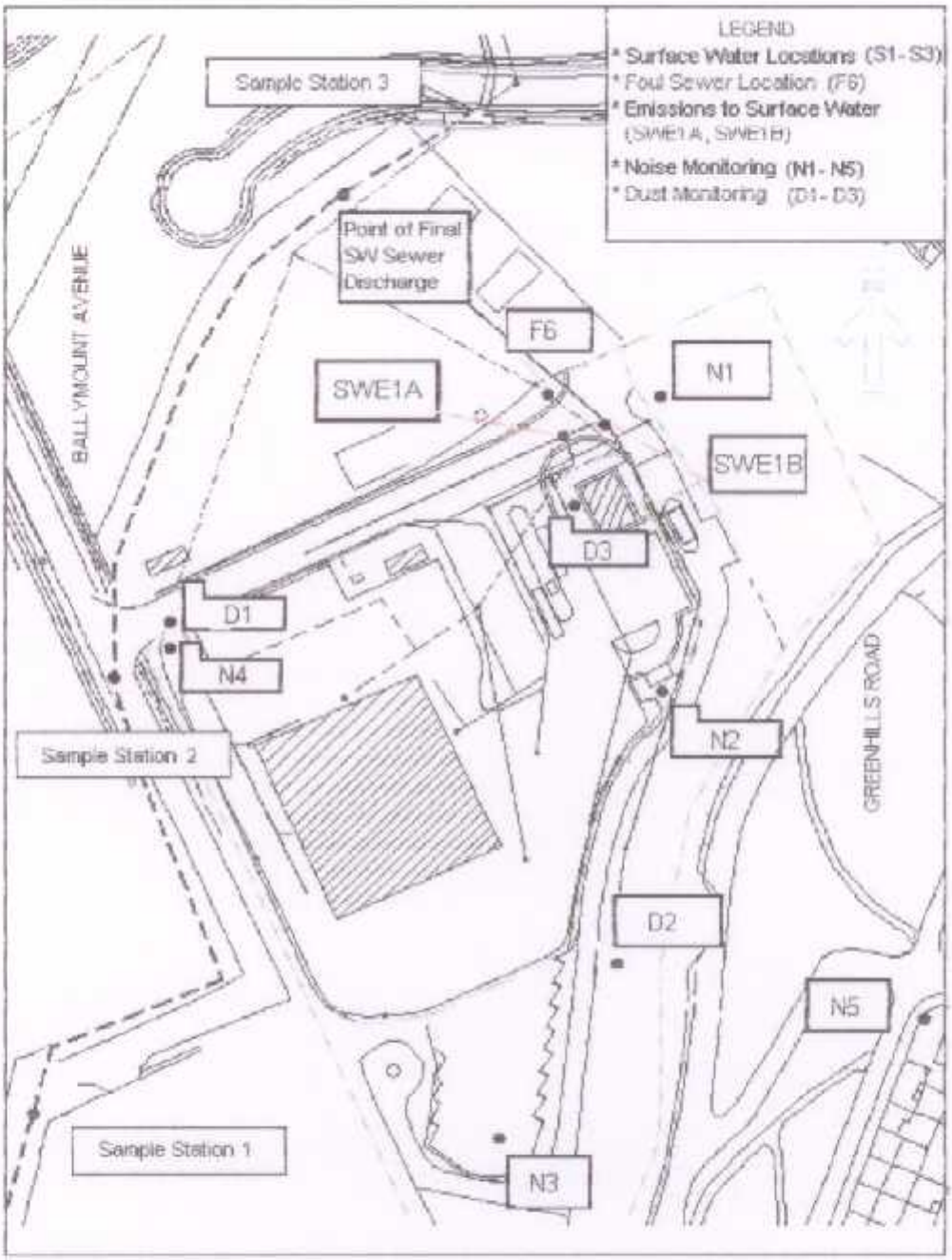

Figure 12.1 Monitoring Location Map

Environmental Protection Agency

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.17

REFERENCE YEAR	2013

1. FACILITY IDENTIFICATION

Parent Company Name	South Dublin County Council
Facility Name	Ballymount Baling Station
PRTR Identification Number	W0003
Licence Number	W0003-03

Waste or IPPC Classes of Activity

No.	class_name
3.12	Repackaging 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	Ballymount Road
Address 2	Walkinstown
Address 3	Dublin 12
Address 4	
	Dublin
Country	Ireland
Coordinates of Location	-6.34625 53.3105
River Basin District	IEEA
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Eoin Buttle
AER Returns Contact Email Address	ebuttle@sdublincoco.ie
AER Returns Contact Position	Environmental Manager
AER Returns Contact Telephone Number	01-4621251
AER Returns Contact Mobile Phone Number	086-8271633
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	4004
Number of Employees	16
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

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

3. SOLVENTS REGULATIONS (S.I. No. 643 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) ?	
Is the reduction scheme compliance route being used ?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE

Guidance on waste imported/accepted onto site

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	No

4.1 RELEASES TO AIR

Link to scheduled waste emissions data

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs					
POLLUTANT		METHOD						QUANTITY		
			Method Used		Point 1	Point 2	Point 3			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	Emission Point 2	Emission Point 3	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
60	Particulate matter (PM10)	M	OTH	EN12341	0.0000439	0.0000282	0.0000693	0.0001414295	0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
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 AIR					Please enter all quantities in this section in KGs						
POLLUTANT		METHOD							QUANTITY		
			Method Used		(1) Kg/Hr/Yr	(2) Kg/Hr/Yr	(3) Kg/Hr/Yr				
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
910	Dust	M	OTH	Dustrak using Isokinetic sampling EN12919	0.01252	0.01041	0.01434	0.0	0.03827	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 for the environment under Waste H2/0 for Section A: Sector specific PRTR pollutants above. Please complete the table below:

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

Ballymount Baling Station

	T (Total) kg/Year	M/C/E	Method Used: Method Code	Method Used: 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 engines	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A	

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE [PRTR# : W0003 | Facility Name : Ballymount Baling Station | Filename : W0003_2013 (3).xls | Return Year : 2013]

Please enter all quantities on this sheet in Tonnes

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 for Haz Waste / Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility for Haz Waste / Address of Recover/Disposer	Name and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	08 03 18	No	0.38	waste printing toner other than those mentioned in 08 03 17	R5	M	Weighed	Offsite in Ireland	Kildarson Ltd,WCPEX-DC-06-11-01 Brian Kehoe Ltd Royal Rd Bagnalstown Co. Carlow WFPCW110611	Deansgrange Rd,Blackrock,Dublin,D4,Ireland		
Within the Country	13 02 08	Yes	24.4	other engine, gear and lubricating oils	R9	M	Weighed	Offsite in Ireland	Atlas Oil,W0184	Clonminam Ind Est,Portlaoise,Laois,,,Ireland	Atlas Oil,W0184	Clonminam Ind Est,Portlaoise,Laois,,,Ireland
Within the Country	15 01 01	No	257.98	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	Greenstar Fassaroe,W0053-03	Fassaroe,Bray,Wicklow,,,Ireland		
Within the Country	15 01 02	No	35.9	plastic packaging	R3	M	Weighed	Offsite in Ireland	Greenstar Fassaroe,W0053-03	Fassaroe,Bray,Wicklow,,,Ireland		
Within the Country	15 01 04	No	2.12	metallic packaging	R4	M	Weighed	Offsite in Ireland	Glasgoo/Rehab,WFP-KE-08-0357-01	,,,,Kildare,Ireland		
Within the Country	15 01 07	No	103.67	glass packaging	R5	M	Weighed	Offsite in Ireland	Glasgoo/Rehab,WFP-KE-08-0357-01	,,,,Kildare,Ireland		
Within the Country	16 05 05	No	1.71	gases in pressure containers other than those mentioned in 16 05 04	R5	M	Weighed	Offsite in Ireland	Calor Gas,,	Lond Mile Road,Dublin,,,,Ireland		
To Other Countries	16 06 01	Yes	12.72	lead batteries	R4	M	Weighed	Abroad	Recambari/Rita,W0192-3	Greenogue Business Park,Rathcoole,Dublin,,,Ireland	HJ Enthoven,BL5598,Derbyshire,,,,,United Kingdom	Derbyshire,,,,,United Kingdom
Within the Country	17 09 04	No	139.12	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R5	M	Weighed	Offsite in Ireland	Greenstar Fassaroe,W0053-03	Fassaroe,Bray,Wicklow,,,Ireland		
Within the Country	20 01 01	No	75.28	paper and cardboard	R3	M	Weighed	Offsite in Ireland	Irish Packaging Recycling Ltd t/a Panda Waste Services,W263	Ballymount Road,Ballymount Road,Walkinstown D12,Ireland		
Within the Country	20 01 11	No	12.56	textiles	R3	M	Weighed	Offsite in Ireland	Enable Ireland,WPR080	Unit D1C,Bluebell Ind Est,Kylemore Rd,D12,Ireland		
Within the Country	20 01 11	No	9.7	textiles	R3	M	Weighed	Offsite in Ireland	Textile Recycling Ltd,0	Greenogue Ind Est,Greenogue Business Park,D24,,,Ireland		
Within the Country	20 01 21	Yes	8.64	fluorescent tubes and other mercury-containing waste	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-03	Tullamore,Offaly,,,,Ireland	Remondis Electrocycling SAS,01-2462A,Zac des Marais,BP03,10800 Saint Thibault,,,France	Zac des Marais,BP03,10800 Saint Thibault,,,France
To Other Countries	20 01 23	Yes	16.16	discarded equipment containing chlorofluorocarbons	R4	M	Weighed	Abroad	Technic Ltd,LN/08/122	Dungannon,Tyrone,,,,Ireland	Remondis Electrocycling SAS,01-2462A,Zac des Marais,BP03,10800 Saint Thibault,,,France	Zac des Marais,BP03,10800 Saint Thibault,,,France
Within the Country	20 01 25	No	1.18	edible oil and fat	R9	M	Weighed	Offsite in Ireland	Frylite,WFP-DS-10-009-01	Ballymount Ave Ballymount Ind Est,D12,,,Ireland		
To Other Countries	20 01 27	Yes	35.2	paint, inks, adhesives and resins containing dangerous substances	R2	M	Weighed	Abroad	Ecosafe,W084-02	Unit 1 Allied Ind Est,Kylemore Rd,Dublin,,Ireland	Accurec GMB and HJ Enthoven,BL5598,Wehagan 2-14 D45472 Mulunheim Germany,,,Mallock Derbyshire UK,,,Germany	Wehagan 2-14 D45472 Mulunheim Germany,,,Mallock Derbyshire UK,,,Germany
Within the Country	20 01 36	Yes	221.61	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 23 containing hazardous components	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-03	Tullamore,Offaly,,,,Ireland	KMK Metals,W0113-03,Tullamore,Offaly,,,,Ireland	,,,,,,Ireland

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and License/Permit No of Next Destination Facility Non Haz Waste: Name and License/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						WCIC	Method Used					
Within the Country	20 01 35	Yes	238.01	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 23 containing hazardous components	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-04	Tullamore,Offaly,...,Ireland	BMR - DARLASTON BENTLEY ROAD SOUTH DARLASTON WEST MIDLANDS WS10 8LW	....United Kingdom
Within the Country	20 01 36	No	142.86	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-05	Tullamore,Offaly,...,Ireland		
Within the Country	20 01 38	No	355.38	wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	Greenstar Fassaroe,W0053-02	Fassaroe,Bray,Wicklow,...Ireland		
Within the Country	20 01 40	No	47.22	metals	R4	M	Weighed	Offsite in Ireland	Multimetals Ltd,SSS/15/W8121519	Rolarney,The Morrough,Co Wicklow,...Ireland		
Within the Country	20 01 40	No	203.3	metals	R4	M	Weighed	Offsite in Ireland	Hammond Lane,WCP-DC-0013-01	Pigeon House Rd,Ringsend,Co. Dublin,...Ireland		
Within the Country	20 02 01	No	1757.73	biodegradable waste	R3	M	Weighed	Offsite in Ireland	Bord na Mona,W0199-01	Kilberry,Athy,Co.Kildare,...Ireland		
Within the Country	20 03 01	No	586.51	mixed municipal waste	D13	M	Weighed	Offsite in Ireland	Greenstar Materials Recovery (West Dublin MRF),W0188	Rathcoole,Newcastle,Tallaght,Dublin 24,Ireland		
Within the Country	20 03 07	No	790.87	bulky waste	R12	M	Weighed	Offsite in Ireland	Bord na Mona,W0199-01	Allenwood.....,Kildare,Ireland		
Within the Country	20 03 07	No	52.46	bulky waste	R12	M	Weighed	Offsite in Ireland	Greenstar Knockharley W146-01	Knockharley, Navan, Co. Meath		
Within the Country	20 03 07	No	0.18	bulky waste	R12	M	Weighed	Offsite in Ireland	Greenstar Fassaroe,W0053-00	Fassaroe,Bray,Wicklow,...Ireland		
Within the Country	20 03 07	No	3919.44	bulky waste	R12	M	Weighed	Offsite in Ireland	Greenstar Environmental Services,W0189	Rathcoole, Newcastle, Co. Dublin, Ireland		
Within the Country	15 01 02	No	39.98	plastic packaging	R3	M	Weighed	Offsite in Ireland	Greenstar, Millenium Park, W0183	Grange, Ballycoolin, Finglas, Dublin, Ireland		
Within the Country	17 09 04	No	560.9	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R5	M	Weighed	Offsite in Ireland	Greenstar, Millenium Park, W0183	Grange, Ballycoolin, Finglas, Dublin, Ireland		
Within the Country	20 01 38	No	120.9	wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	Greenstar, Millenium Park, W0183	Grange, Ballycoolin, Finglas, Dublin, Ireland		
Within the Country	20 01 40	No	71.28	metals	R4	M	Weighed	Offsite in Ireland	A1 Metal Recycling WMP 0007E	Acragar Mountmellick, Co. Laois. Ireland		
To Other Countries	19 12 12	No	95556.83	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D15	M	Weighed	Abroad	Panda Waste / Drogheda Port Company WFP-LH-11-0006-01	Tom Roes Point Facility, Beltray Rd, Drogheda, Co. Louth		
To Other Countries	19 12 12	No	16210.74	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D15	M	Weighed	Abroad	Panda Waste / O' Hanlon and Sons Contractors Ltd WFP-LH-12-0002-01	Loughinglone Yard, Quay Street, Dundalk, Co. Louth		
Within the Country	19 12 12	No	173.24	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Weighed	Offsite in Ireland	Enrich WFP-MH-08-0001-01	Newton Ramgangley, Kilcock, Co. Meath		
Within the Country	20 03 07	No	426.4	bulky waste	R12	M	Weighed	Offsite in Ireland	Panda Waste W0039-02	Ballymount Cross, Tallaght, Dublin 24		
Within the Country	20 03 07	No	13.42	bulky waste	D1	M	Weighed	Offsite in Ireland	White River W00050-03	Whiteriver, dunleer, Co Louth		
Within the Country	19 12 02	No	473.22	ferrous metal	R4	M	Weighed	Offsite in Ireland	Wilton Waste Recycling WFP-CN-10-0005-01	Crossertough, Ballyjamesduff, Co. Cavan		

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used: MI(s)	Method Used: Method Used	Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste: Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
Within the Country	19 12 12	No	342.41	other wastes (including mixtures of material) from mechanical treatment of wastes other than those mentioned in 19 12 11	D10	M	Weighed	Offsite in Ireland	Indaver, W0167-02	Carranstown, Duleek, Co Meath		
Within the Country	20 01 23	Yes	8.54	discarded equipment containing chlorofluorocarbons	R4	M	Weighed	Offsite in Ireland	KMK Metals W0113-05	Tullamore,Offaly,,,Ireland	KMK Metals W0113-05	Tullamore,Offaly,,,Ireland

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