

ANNUAL ENVIRONMENTAL REPORT

REPORTING PERIOD: 1ST January 2014 – 31st December 2014

WASTE LICENCE REGISTRATION NO:

WL106-02

LICENSEE:

LOCATION OF ACTIVITY:

ATTENTION:

PREPARED BY:

CONTRIBUTIONS FROM:

CARROWBROWNE, HEADFORD ROAD, CO. GALWAY.

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BRUSCAR BHEARNA TEORANTA

MR. CAMPBELL FINNIE (Barna Recycling)

MR. SEAN CURRAN (Managing Director) MR. DAMIEN MONAGHAN (Operations Manager) MR. NIALL JORDAN (Deputy Facility Manager) P.J. TOBIN CONSULTING ENGINEERS COMPLETE LABORATORY SOLUTIONS FITZ SCIENTIFIC ANUA ENVIRONMENTAL CONSOLUTANTS ECOLAB

DECLARATION:

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

Campbell Finnie

1.0 Introduction

The following is the Annual Environmental Report (AER) for **Barna Recycling** for the period **1**st **January 2014 to 31st December 2014** for the Waste Transfer / Recycling Facility at Carrowbrowne, Headford Road, Co. Galway only.

This report is in compliance with Condition 10.8 of Waste Licence No. WL106-02, which states:

"The licensee shall submit to the Agency for its agreement not later than January 31st of each year thereafter, an Annual Environmental Report (AER).

The AER shall include as a minimum the information specified in Schedule G: Content of Annual Environmental Report and shall be prepared in accordance with any relevant written guidance issued by the Agency."

This is a consolidated report, which includes details on all aspects of the site's environmental performance for the given period.

It is the policy of Barna Recycling to conduct its business of waste acceptance, waste storage and waste transfer at the waste transfer station in such a manner that associated activities minimise any potential adverse effects on the environment. This commitment is expressed in the company's Environmental Management Policy, presented on the next page.

1.1 Environmental Policy

This policy clearly sets out the overall aims and intentions of the company with respect to the environment. The creation of our Environmental Policy was the first step taken in the development of our EMS System, as required by Condition 2.1, of the Waste Licence. This document has been reviewed but no changes were made since last year's submission of the report.

Brúscar Bhearna Teoranta (BARNA RECYCLING)

Environmental Policy

Brúscar Bhearna Teoranta provides a service to the community in the management of waste activities such as disposal and recovery which is operated under licence 106-2 from the EPA.

Brúscar Bhearna Teoranta regards environmental protection as an essential requirement of its operation. BBT will undertake to conduct its business in a manner which protects the environment of the Customers, Employees and Communities in which it operates. This policy is consistent in its goals with the nature, scale and environmental impacts of our activities, products and services set out in the scope of our EMS system.

Brúscar Bhearna Teoranta will communicate this policy to all employees as part of the induction process for full time and temporary employees and any sub contractors who are engaged to carry out work on site.

Guiding Principles:

BBT is committed to...

- a) continual improvements, prevention of pollution and conservation of natural resources which are attributed to its facility.
- b) complying with relevant environmental legislation, regulations and other requirements pertinent to its facility.
- c) the continual assessment of the aspects and impacts of its activities, functions, products and services.
- d) providing a framework for setting and reviewing the environmental objectives and targets of its environmental action programmes.
- e) providing appropriate training and continual communication on its environmental issues to all its employees.
- f) Making this policy & any all other official records available to the public.

Signed: ______ FACILITY MANAGER

Signed: ___

MANAGING DIRECTOR

Date:

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2. Waste Management at the Facility

2.1 Waste Activities

As required by Schedule G of our waste licence the principal processes of the facility are outlined below:

- 1. The recycling / recovery of various waste streams for the diversion of these wastes away from landfill. The facility enables Barna Recycling and other waste contractors, local authorities to collect waste from domestic/commercial/industrial sectors and deliver it to our facility for sorting / processing and then transfer for disposal or recovery.
- 2. Within the facility heavy plant enables the segregation of the waste, (ie. a manual picking station, ballistic separating machines, magnets, edicurrents, balers, shredders, a pre-shredding machine, loading shovels, forklifts (with forks), forklifts (with clamp attachments), grab machines, screeners, crushers). This machinery is used on a daily basis to help separate, move and manage the various waste streams on site.
- 3. The facility also has a fully operational civic amenity site which is open to the public. The civic amenity site is staffed during operational hours and allows the segregation of general waste, mixed recyclables, cardboard, glass, timber, stones, metal, clothes, batteries and all types of white goods and electrical items.
- 4. Currently C&D waste is managed using a screener and a crusher and on occasions a trommel which work in tandem and allow us to recycle the good quality inert materials.
- 5. Our purpose built composting process has been operational since 1st January 2013. This is a back end process forced aeration system which processes the compostable material to European Standards. The process is licenced through our existing EPA licence and is also monitored by Department of Agriculture Food and the Marine under licence number COMP-40.

A summary of the current waste activities carried out at our facility are detailed below:

- Landfill Waste the majority of mixed waste loads that come to our facility are able to be segregated in some way either by hand or by machine (grab or loading shovel) to ensure that most of the recyclable material which is in a reasonable condition is recovered. Bulky waste which is removed would be kept in storage in preparation for transfer in our own vehicles to landfill for disposal.
- Recoverable MSW during this reporting period we introduced a new process of recovering MSW on site. The facility is approved by the Agency for the production of a mechanically treated EWC 191212 material. In effect this means our general waste is pre-sorted to remove bulky and recyclable material before being shredded and trommelled to remove organic fines and metals and finally is baled / wrapped in preparation for transfer. The material is stored on site until a bulk shipment accumulates (approximately 3000 tonnes) and then it is transferred to Galway Harbour for export in a ship for recovery in European outlets. All transfers out of the Country are done so via the TFS procedure.

- Mixed Recyclables the company have invested in some of the best technology available to process domestic kerbside recyclables which are collected around Connacht. The ballistic separators, magnet, edicurrent and manual picking station allow us to produce segregated recyclable fractions from the original mixed recyclables and send for recycling. During this reporting period a new Titech Optical Sorting Machine was added which has further enhanced our ability to produce good quality recyclables. Materials currently being recycled via the picking station include paper, newspaper, cardboard, plastic bottles, plastic bags, plastic trays, steel and aluminium cans. This process is currently able to process around 8 tonnes of recyclables per hour on one shift.
- Composting Facility we operate a compost process at the site which is in a separate area / building to the other materials. This process allows for the delivery of segregated collections of catering / food waste, green waste and sludge. This material is mixed and put through a forced aeration composting system to allow it to break down. The material is controlled by measuring temperature, adding air and monitoring on a daily basis to ensure the process is working. The material is then screened and put in a pasteurisation bunker to reach 70 degrees for one hour before being testing for EColi and Salmonella. Once tests are successfully passed and material has reached the temperatures the material is deemed to be stable it can be shipped as a compost.
- Separately collected recycling the company also encourage recycling from our commercial customers and source segregated collections are available throughout Connacht. These collections result in collection and recycling of cardboard, paper (various grades), metals and plastics (various grades). These materials are checked for quality and once passed are baled immediately and sent for recycling. There is no requirement to process these materials through the picking station.
- Confidential shredding the company also offers customers a confidential shredding service where materials are collected in pre-paid bags or they have the option to deliver to our facility. Materials are shredded and then can be sent off site for recycling (99% of the time it is paper products) but we can shred all types of material in the machine that we have.
- Timber processing timber is processed in its own dedicated area at the site and the material is processed using two machines a waste reducer (pre-shedder) and a timber shredder which shreds the segregated clean timber to a size which can be sent off site for recycling into chipboard, landfill cover or for boiler fuel. Alternatively timber can be sorted and sent off site in bulk trailers to OCR Waste Management in Roscommon where they carry out the shredding.
- Metal recycling the processing of metal products is carried out within the transfer building in a dedicated area. We have a grab machine and baler available specifically used for baling this material into a form that can be easily sold as scrap to the UK or Irish metal markets. Alternatively material is stored in a specific area and transferred loose to a local recycler. Some sorting of metal on higher grade materials is also carried out where possible.
- Civic Amenity Site the site is staffed during operational hours and allows the segregation of general waste, mixed recyclables, cardboard, glass, timber, stones, metal, clothes, batteries and all types of white goods and electrical items.

• General recycling – Barna Recycling are always reviewing markets around the world to try and offer as many recycling avenues as possible to our customers and in addition to the items listed above are currently collecting, segregating and sending the following waste types off site for recycling:

end of life tyres, glass, batteries, industrial plastics, agricultural plastics, plasterboard (gypsum), street sweepings and RDF.

This section of the report was intended to give the reader a summary of the material types and the processing procedures used by Barna Recycling during the reporting period. Any additional information required is available by contacting the company directly.

2.2 Waste Activities Licensed

The waste activities carried out above are done so within the boundaries of our EPA Waste Licence WL106-2 and the Waste Management Act 1996. The following list is a summary of the waste types and activities for which we are licenced:

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

Class 11.	Blending or mixture prior to submission to any activity
	referred to in a preceding paragraph of this Schedule.
Class 12.	Repackaging prior to submissions to any activity referred to in a
	preceding paragraph of this Schedule.
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.

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

- Class 2. Recycling or reclamation of organic substances, which are not used as solvents (including composting and other biological transformation processors).
- Class 3 Recycling or reclamation of metals and metal compounds.
- Class 4. Recycling or reclamation of other inorganic materials.
- Class 12. Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule:
- 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:

2.3 Composition and Quantity of Waste Received at the Facility

The Waste Transfer Station at Barna Recycling is limited not only in the materials that can be accepted at the facility but also by the quantities which can be accepted. The following is a summary of the tonnages of different waste streams permitted to be accepted during this reporting period:

WASTE TYPE	MAXIMUM TONNES PER ANNUM
Household	55,500 option A or 55,500 option B
Commercial	17,500 option A or 17,500 option B
Construction & Demolition	30,000 option A or 50,000 option B
Industrial Non Haz Solids	23,000 option A or 23,000 option B
Biodegradable Waste	40,000 option A or 20,000 option B
ΤΟΤΑΙ	166,000 tonnes

Waste Categories and Quantities acceptable at Transfer Station

These tonnages are set and documented in our EPA licence WL106-2 (schedule A).

2.4 Waste In / Out Results for this year and past years (2002 – 2014)

This section of the report outlines the quantities and composition of the waste types accepted and removed from the facility for either disposal or recovery / recycling.

As **required** by the Agency and written in our EPA Licence results for the current reporting year (2013) AND ALL PREVIOUS years are included therefore results for reporting periods 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013 and the current reporting period of 2014 are outlined below.

This year's figures have been included with EWC codes as per the requirement in Schedule G of our waste licence WL106-2 and are in the new reporting format spreadsheet as published by the Agency although not mandatory we decided to implement them into this years report.

Waste In / Out Results for 2002 Period

Table 2.4.1: Waste Incoming during period 1st January 2002 – 31st December 2002

The following table outlines the waste that was received on site at the Barna Recycling facility during the previous reporting period:-

Waste Type	Tonnes	%
Green / Organic / Timber	480.84	1.3%
Cardboard	700.39	1.8%
Recyclables	2595.08	6.6%
Commercial	10,245.00	26.1%
Household / Domestic	10,557.39	26.9%
Construction and Demolition	14,616.47	37.3%
Total	39,195.17	

Figure 2.1 illustrates the percentage breakdown of materials received on site for each of the main categories detailed above.

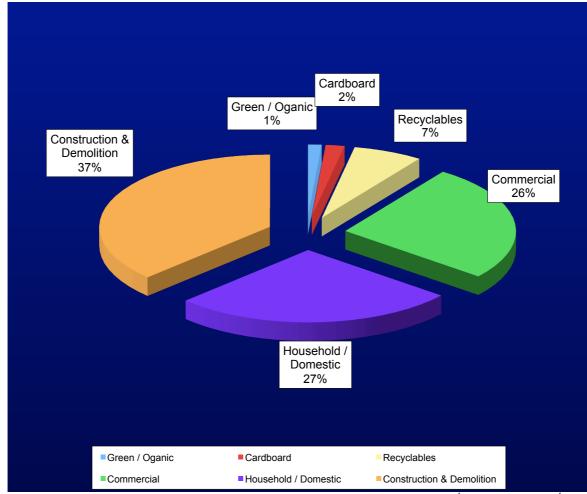


Figure 2.4.2: Percentage Breakdown of Waste Received on site from 1st January – 31st December 2002

Waste Type	Tonnes	% of Waste In
Materials Recovery (Plastic)	37.17	0.1%
Galway Metal	639.5	1.6%
Railuck (Mixed Plastics)	662.91	1.7%
Fibre Recycling (Newspapers etc)	677.98	1.7%
Fibre Recycling (Cardboard)	919.50	2.4%
Finsa Products (Timber)	1,092.50	2.8%
Recovered Fill	6859.40	17.5%
Ballinasloe Landfill	28,232.69	72%
Total	39,121.65	

 Table 2.4.3: Total Wastes Outgoing 1st January 2002 – 31st December 2002

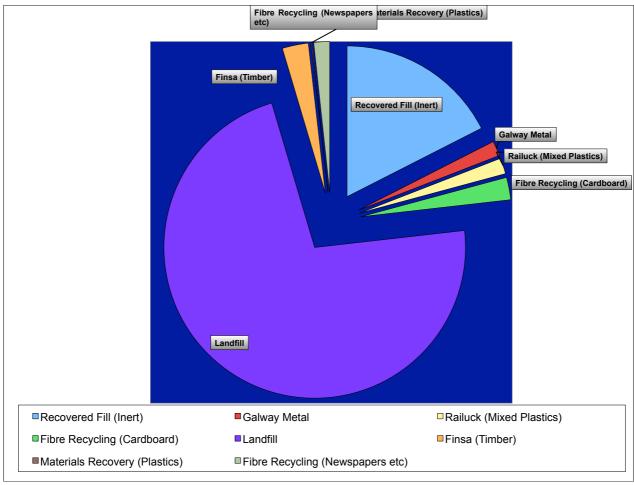


Figure 2.4.4: Percentage Breakdown of Waste outgoing from 1st January 2002 to 31st December 2002

Waste In / Out Reports for 2003

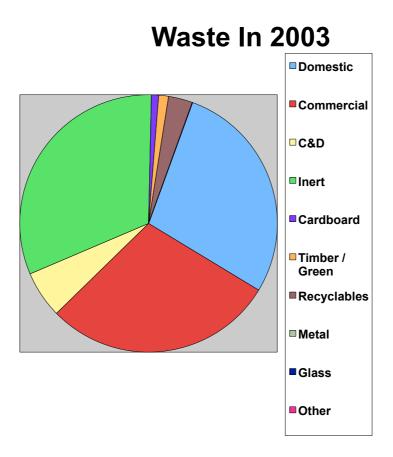


Figure 2.4.5: Breakdown of Waste Received on site from 1st January – 31st December 2003

WASTE TYPE	WASTE IN (tonnes per annum)
Domestic	20015.92
Commercial	20663.18
<i>C</i> & <i>D</i>	4199.2
Inert	22612.4
Cardboard	643.2
Timber / Green	878.55
Recyclables	2154.1
Metal	15
Glass	3.54
Others (public weighing)	8.02
TOTAL	71193.08

 Table 2.4.3: Total Wastes Incoming 1st January 2003 – 31st December 2003

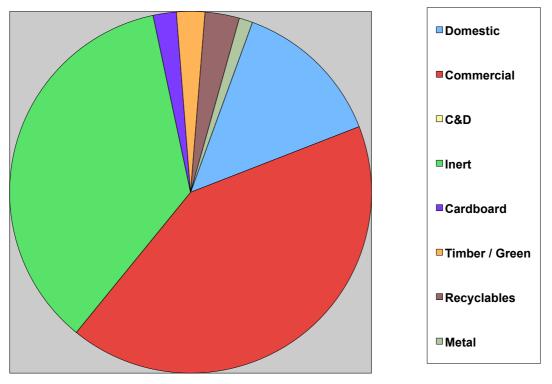


Figure 2.4.6:

Breakdown of Waste going off site for Recovery or Disposal from 1st January – 31st December 2003

WASTE TYPE	WASTE OUT (tonnes per annum)
Domestic	8545.18
Commercial	26393.02
Inert	22602.2
Cardboard	1308.24
Timber / Green	1601.04
Recyclables	1937.22
Metal	761.87
TOTAL	63,418.72

Table 2.4.7: Total Wastes Outgoing 1st January 2003 – 31st December 2003

WASTE TYPE	RECYCLING	% OF TOTAL RECYCLING
	(tonnes per annum)	
Inert	22602.2	80.1%
Cardboard	1308.24	4.6%
Timber / Green	1601.04	5.7%
Recyclables	1937.22	6.9%
Metal	761.87	2.7%
TOTAL	28,210.57	39% of total waste in was recycled for 2003

Table 2.4.8: Recycling waste out details for 1st January – 31st December 2003

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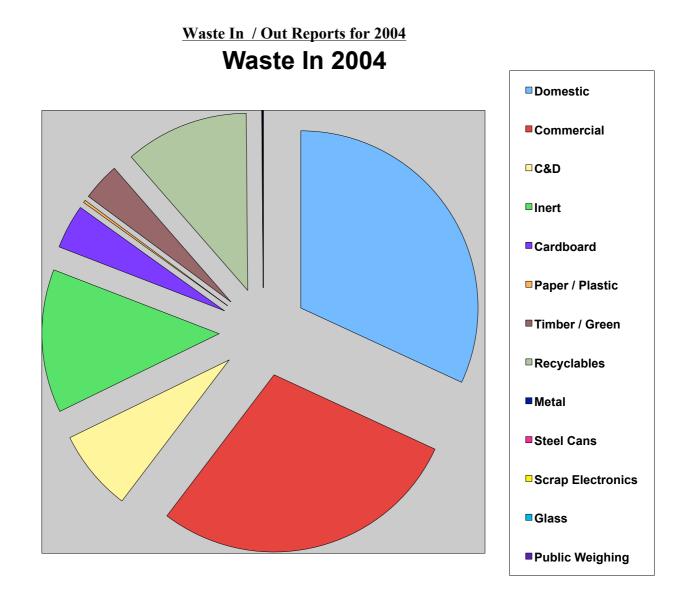


Figure 2.4.9: Breakdown of Waste Received on site from 1st January – 31st December 2004

WASTE TYPE	WASTE IN (tonnes per annum)
Domestic	19,796.62
Commercial	17,691.68
<i>C & D</i>	4575.1
Inert	8115.82
Cardboard	2506.52
Paper / Plastic	143.74
Scrap Electronics	1.20
Timber / Green	2111.85
Mixed Kerbside Recyclables	6990.80
Metal	45.00
Steel Cans	5.23
Glass	15.76
Public Weighing	15.88
TOTAL	62,045.20

Table 2.4.10: Total Wastes Incoming 1st January 2004 – 31st December 2004

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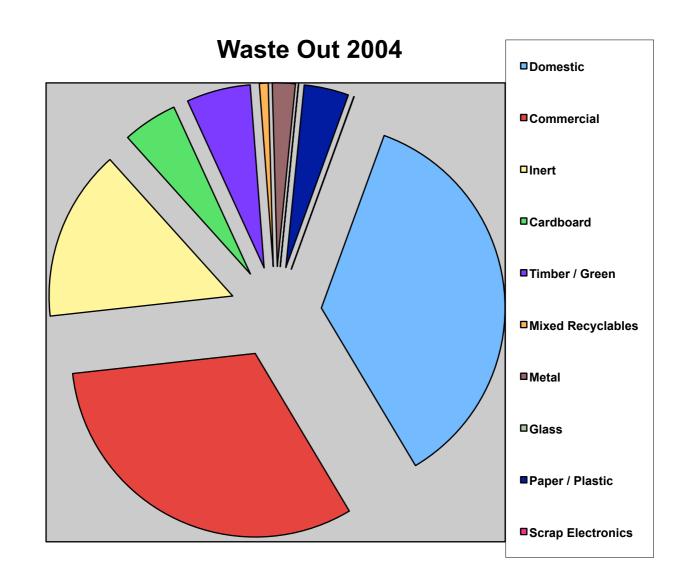


Figure 2.4.11:

Breakdown of Waste going off site for Recovery or Disposal from 1st January – 31st December 2003

WASTE TYPE	WASTE OUT (tonnes per annum)
Domestic	19,299.33
Commercial	17,114.50
Inert	8115.82
Cardboard	2591.73
Paper / Plastic	2113.6
Timber / Green	3028.51
Recyclables	416.23
Scrap Electronics	14.69
Glass	9.98
Metal	1085.37
TOTAL	53,789.76

Table 2.4.12: Total Wastes Outgoing 1st January 2003 – 31st December 2004

All outlets for the materials going out have been approved in advance by the EPA. Our outlets for the waste types above are listed below:

- 1) Metal goes to Galway Metal
- 2) Timber / Green waste goes to Finsa Forest Products or Weyerhaeuser Europe
- 3) Paper / Cardboard / Steel Cans / Aluminium / Plastic / Scrap plastic all goes to AWS (Alternative Waste Solutions)
- 4) Glass goes to Eclipse Recycling
- 5) Scrap Electronics go to Cara Environmental
- 6) Inert material goes into our permitted site within out facility
- 7) All Domestic and Commercial waste goes to the Poolboy landfill site in Ballinasloe
- 8) In addition to the above Barna Recycling also have Batteries collected by Returnbatt and send tyres as required to Crumb Rubber or to Crossmore Transport

Barna Recycling requests and keeps on file recycling certificates from all the companies that take material from the premises for recycling / disposal / recovery.

WASTE TYPE	RECYCLING	% OF TOTAL RECYCLING
	(tonnes per annum)	
Inert	8115.82	46.73%
Cardboard	2591.73	14.9%
Timber / Green	3028.51	17.4%
Recyclables	416.23	2.4%
Paper / Plastic	2113.6	12.17%
Scrap Electronics	14.69	0.1%
Metal	1085.37	6.3%
TOTAL	17,365.95	28% of total waste in was recycled for 2004

Table 2.4.13: Recycling waste out details for 1st January 2004 – 31st December 2004

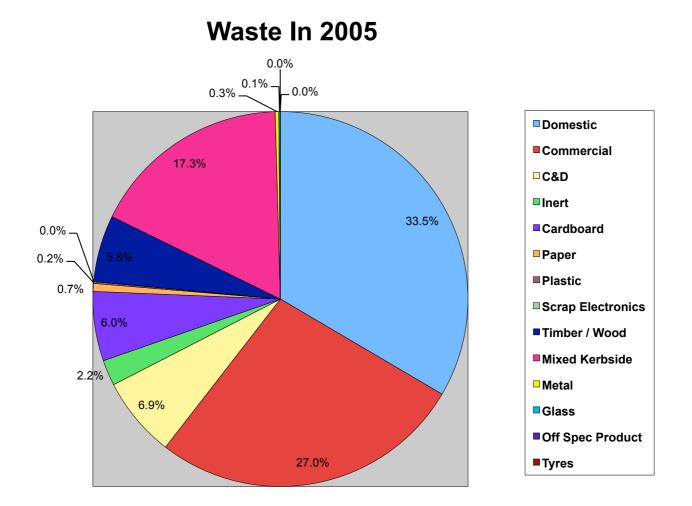


Figure 2.4.14: Breakdown of Waste Received on site from 1st January 2005 – 31st December 2005

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	22134.78
EWC 200100 Commercial	17874.97
EWC 170100 C & D	4594.86
EWC 200202 Inert	1463.6
EWC 200101 Cardboard	3962.02
EWC 200101 Paper	449.78
EWC 200103 Plastic	100.52
EWC 160201 Scrap Electronics	0.76
EWC 200138 Timber / Wood / Green	3808.28
EWC 150101 Mixed Kerbside Recyclables	11443.15
<i>EWC 170407 Metal</i>	205.12
EWC 170202 Glass	78.98
EWC 160304 Off Spec Product	1.17
EWC 160103 Tyres	12.95
TOTAL	66130.94

Table 2.4.15: Total Wastes Incoming 1st January 2005 – 31st December 2005

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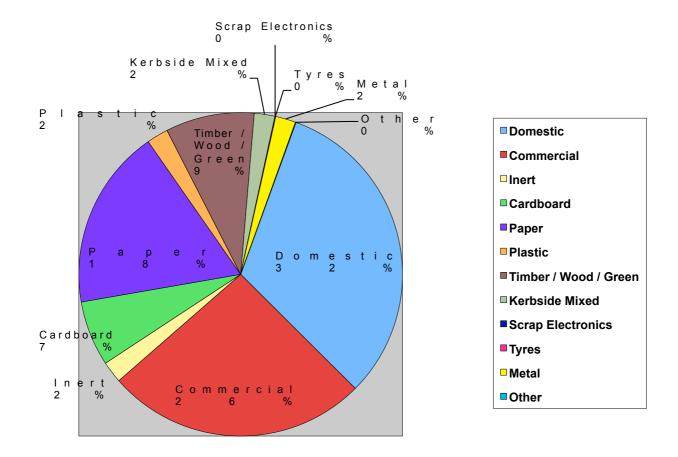


Figure 2.5.0:

Breakdown of Waste going off site for Recovery or Disposal from 1st January 2005 – 31st December 2005

WASTE TYPE	WASTE OUT (tonnes per annum)
EWC 200301 Domestic	21593.80
EWC 200100 Commercial	17667.66
<i>EWC 200202 Inert</i>	1463.6
EWC 200101 Cardboard	4408.69
EWC 200101 Paper	12221.53
EWC 200103 Plastic	1457.49
EWC 200138 Timber / Wood / Green	6003.09
EWC 150101 Recyclables	1391.82
EWC 160201 Scrap Electronics	14.96
<i>EWC 160103 Tyres</i>	40.32
EWC 170407 Metal	1366.35
Other	36.7
TOTAL	67666.01

 Table 2.5.1: Total Wastes Outgoing 1st January 2005 – 31st December 200

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2.5.2 Summary of Recycling Outlets used in 2005

Barna Recycling are committed to finding new recycling markets in Ireland, Europe and Worldwide to ensure materials produced from the picking station and the other areas in our waste transfer station are sent to the best possible recycling outlets.

All outlets for the materials going out have been approved in advance by the EPA.

A summary of the recycling outlets used for 2005 is included below:

- 1) Metal products are sent to S.Norton Metal Merchants in Liverpool. Alternative outlets include Midland Scrap Metal (Portlaoise) and Galway Metal.
- 2) Timber / Wood / Green waste goes to Finsa Forest Products or Weyerhaeuser Europe
- 3) Paper / Cardboard / Steel Cans / Aluminium / Plastic (various grades) all go via AWS (Alternative Waste Solutions) for recycling
- 4) Paper / Cardboard are also sent to CWS (Complete Waste Solutions) for recycling
- 5) Paper / Cardboard are also sent to Highlander International Recycling for recycling
- 6) Paper / Cardboard are also sent to Parry & Evans for recycling
- 7) Scrap Electronics go to Cara Environmental
- 8) Inert material goes into our permitted site within out facility
- 9) Tyres are sent to Crossmore Transport in Limerick for recycling
- 10) All non recoverable waste goes to the Poolboy Landfill Site in Ballinasloe

Barna Recycling requests and keeps on file recycling certificates from all the companies that take material from the premises for recycling / disposal / recovery.

WASTE TYPE	RECYCLING (tonnes per annum)	% OF TOTAL RECYCLING
EWC 200202 Inert	1463.6	5%
EWC 200101 Cardboard	4408.69	15%
EWC 200101 Paper	12221.53	43%
EWC 200103 Plastic	1457.49	5%
EWC 200138 Timber / Wood / Green	6003.09	21%
EWC 150101 Recyclables	1391.82	5%
EWC 160201 Scrap Electronics	14.96	Less than 1%
EWC 160103 Tyres	40.32	Less than 1%
EWC 170407 Metal	1366.35	5%
Other	36.7	Less than 1%
TOTAL	28404.55	43% of total waste in was recycled for 2005

Waste In / Out Reports for 2006



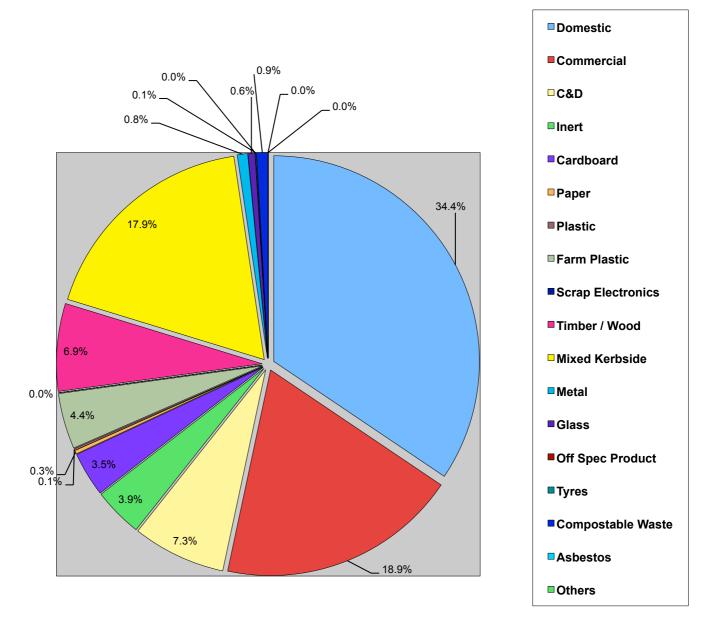


Figure 2.6.0: Breakdown of Waste Received on site from 1st January 2006 – 31st December 2006

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	29328.22
EWC 200100 Commercial	16095.29
EWC 170100 C & D	6234.14
EWC 200202 Inert	3295.65
EWC 200101 Cardboard	2980.02
EWC 200101 Paper	239.55
EWC 200103 Plastic	121.71
EWC 200104 Farm Plastic	3729.12
EWC 160201 Scrap Electronics	6.89
EWC 200138 Timber / Wood / Green	5862.05
EWC 150101 Mixed Kerbside Recyclables	15244.71
<i>EWC 170407 Metal</i>	698.92
EWC 170202 Glass	470.45
EWC 160304 Off Spec Product	15.28
EWC 200108 Food Waste	753.51
EWC 200201 Garden & Park Waste	
EWC 200304 Sludge	
Compostable materials	
<i>EWC 160103 Tyres</i>	59.78
EWC 170605 Asbestos	3.10
Others (Public weighing)	8.45
TOTAL	85146.84

Table 2.6.1: Total Wastes Incoming 1st January 2006 – 31st December 2006

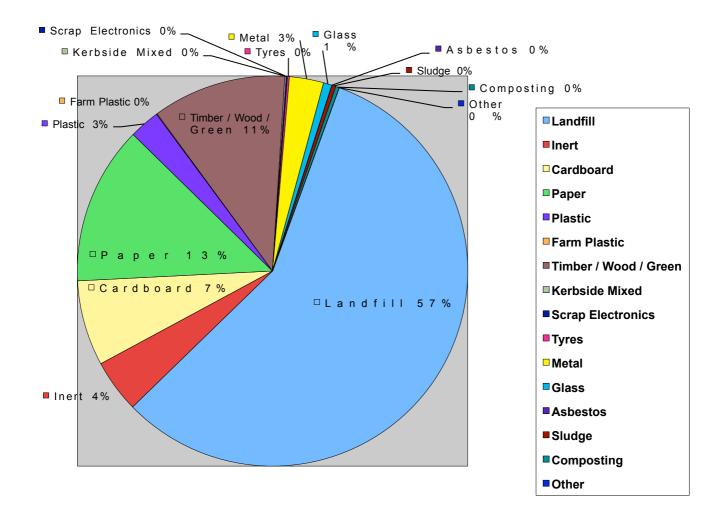


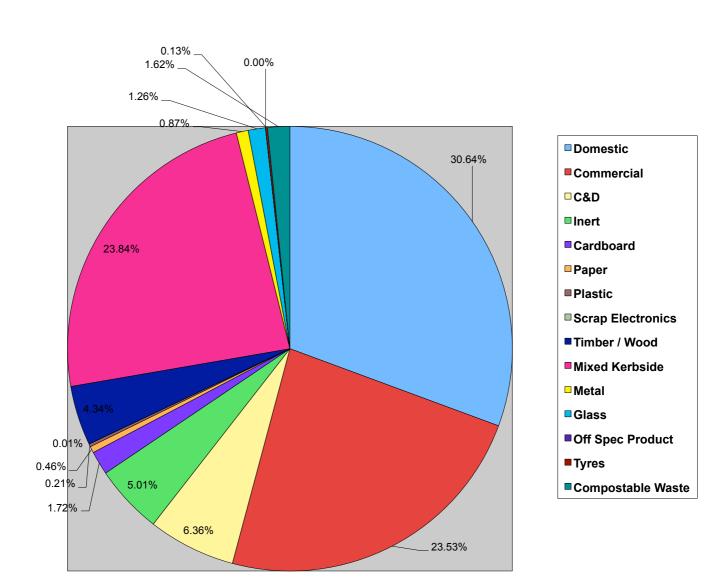
Figure 2.6.2: Breakdown of Waste going off site for Recovery or Disposal from 1st January 2006 – 31st December 2006

WASTE TYPE	WASTE OUT (tonnes per annum)
<i>EWC 191212 Mechanically treated mixed</i>	45754.84
waste for landfill (Commercial / Domestic)	
EWC 200202 Inert	3518.12
EWC 200101 Cardboard	5660.60
<i>EWC 200101 Paper</i>	10516.62
EWC 200103 Plastic	2023.17
EWC 200104 Farm Plastic	47.12
EWC 200138 Timber / Wood / Green	8875.78
EWC 150101 Recyclables	90.35
EWC 160201 Scrap Electronics	78.44
<i>EWC 160103 Tyres</i>	130.64
EWC 170407 Metal	2267.10
<i>EWC 200102 Glass</i>	559.56
EWC 170605 Asbestos	9.04
EWC 200304 Sludge	258.74
EWC200108 Composting	240.89
Others	1.62
TOTAL	80,032.63

Table 2.6.3: Total Wastes Outgoing 1st January 2006 – 31st December 2006

WASTE TYPE	RECYCLING	% OF TOTAL
	(tonnes per	RECYCLING
	annum)	
EWC 200202 Inert	3518.12	10%
EWC 200101 Cardboard	5660.60	17%
EWC 200101 Paper	10516.62	31%
EWC 200103 Plastic	2023.17	6%
EWC 200138 Timber / Wood / Green	8875.78	26%
EWC 150101 Recyclables	90.35	Less than 1%
EWC 160201 Scrap Electronics	78.44	Less than 1%
EWC 160103 Tyres	130.64	Less than 1%
EWC 170407 Metal	2267.10	7%
EWC200108 Composting	240.89	Less than 1%
<i>EWC 200102 Glass</i>	559.56	2%
EWC 200104 Farm Plastic	47.12	Less than 1%
TOTAL	34008.39 tonnes	40% of total waste in was recycled for 2006

Table 2.6.4: Breakdown of recycling waste out details for 1st January – 31st December 2006



WASTE IN

Figure 2.7.0: Breakdown of Waste Received on site from 1st January 2007 – 31st December 2007

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	28840.92
EWC 200100 Commercial	22150.64
EWC 170100 C & D	5988.48
<i>EWC 200202 Inert</i>	4720.19
EWC 200101 Cardboard	1621.48
EWC 200101 Paper	436.96
EWC 200103 Plastic	193.75
EWC 160201 Scrap Electronics	5.46
EWC 200138 Timber / Wood / Green	4082.74
EWC 150101 Mixed Kerbside Recyclables	22440.51
EWC 170407 Metal	817.07
EWC 170202 Glass	1181.63
EWC 160304 Off Spec Product	4.60
EWC 200108 Food Waste	1525.88
EWC 200201 Garden & Park Waste	
EWC 200304 Sludge	
Compostable materials	
<i>EWC 160103 Tyres</i>	120.96
TOTAL	94,131.27

Waste in for 2007: Table of quantities by waste type

 Table 2.7.1: Total Wastes Incoming 1st January 2007 – 31st December 2007

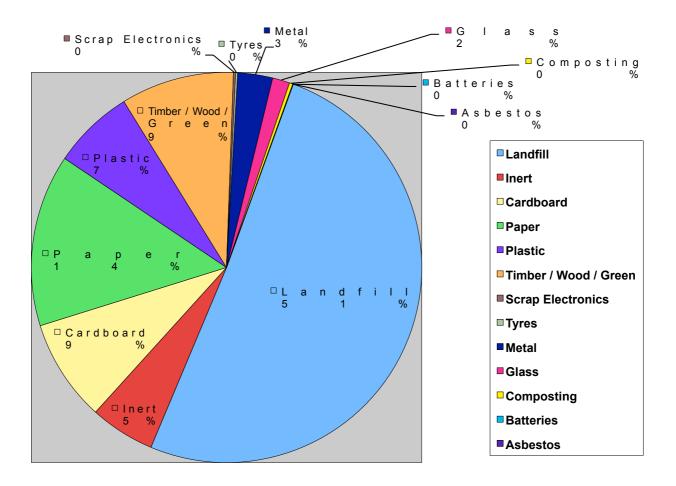


Figure 2.7.2: Breakdown of Waste going off site for Recovery or Disposal from 1st January 2007 – 31st December 2007

WASTE TYPE	WASTE OUT (tonnes per annum)
<i>EWC</i> 191212 <i>Mechanically treated mixed</i>	44558.56
waste for landfill (Commercial / Domestic)	
EWC 200202 Inert	4720.19
EWC 200101 Cardboard	7431.38
EWC 200101 Paper	12512.83
EWC 200103 Plastic	5927.02
EWC 200138 Timber / Wood / Green	8230.50
EWC 160201 Scrap Electronics	154.38
<i>EWC 160103 Tyres</i>	151.76
EWC 170407 Metal	2534.82
EWC 200102 Glass	1253.18
EWC 160601 Batteries	33.34
EWC 170605 Asbestos	3.38
EWC200108 or EWC 200304	1443.65
Compostable Material	
TOTAL	88954.99

Waste out for 2007: Table of quantities by waste type

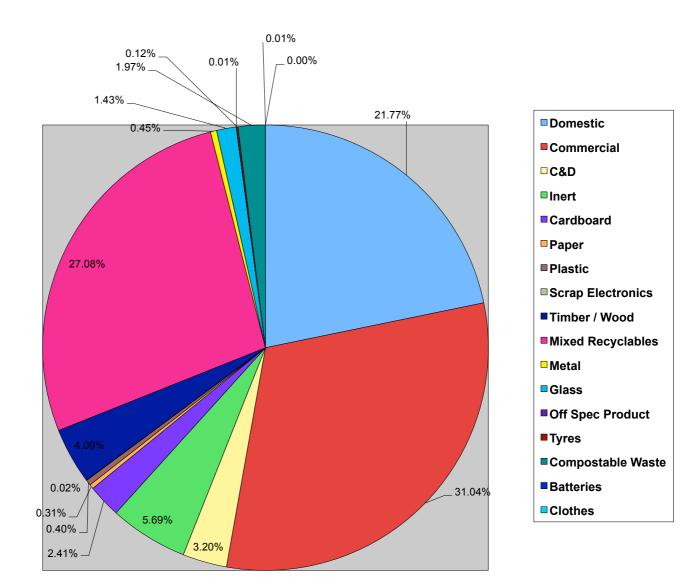
Table 2.7.3: Total Wastes Outgoing 1st January 2007 – 31st December 2007

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2007:

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per	RECYCLING
	annum)	
<i>EWC 200202 Inert</i>	4720.19	10%
EWC 200101 Cardboard	7431.38	17%
EWC 200101 Paper	12512.83	28%
EWC 200103 Plastic	5927.02	13%
EWC 200138 Timber / Wood / Green	8230.50	19%
EWC 160201 Scrap Electronics	154.38	Less than 1%
EWC 160103 Tyres	151.76	Less than 1%
<i>EWC</i> 170407 <i>Metal</i>	2534.82	6%
<i>EWC 200102 Glass</i>	1253.18	3%
EWC 160601 Batteries	33.34	Less than 1%
EWC200108 or EWC 200304	1443.65	3%
Compostable Material		
TOTAL	44,393.05	47% of total waste in was recycled for 2007

Table 2.7.4: Breakdown of recycling waste out details for 1st January 2007 – 31st December2007

Waste In / Out Reports for 2008



WASTE IN (2008)

Figure 2.8.0: Breakdown of Waste Received on site from 1st January 2008 – 31st December 2008

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	18539.17
EWC 200100 Commercial	26433.11
EWC 170100 C & D	2729.37
<i>EWC 200202 Inert</i>	4846.37
EWC 200101 Cardboard	2055.49
EWC 200101 Paper	267.90
EWC 200103 Plastic	344.76
EWC 160201 Scrap Electronics	16.00
EWC 200138 Timber / Wood / Green	3481.57
EWC 150101 Mixed Kerbside Recyclables	23064.37
<i>EWC 170407 Metal</i>	382.35
<i>EWC 170202 Glass</i>	1216.29
EWC 160304 Off Spec Product	2.56
EWC 200108 Food Waste	1674.44
EWC 200201 Garden & Park Waste	
EWC 200304 Sludge	
Compostable materials	
EWC 200110 Clothes	0.10
EWC 160601 Batteries	6.20
<i>EWC 160103 Tyres</i>	100.18
TOTAL	85,160.23 TONNES

Waste in for 2008: Table of quantities by waste type

 Table 2.8.1: Total Wastes Incoming 1st January 2008 – 31st December 2008

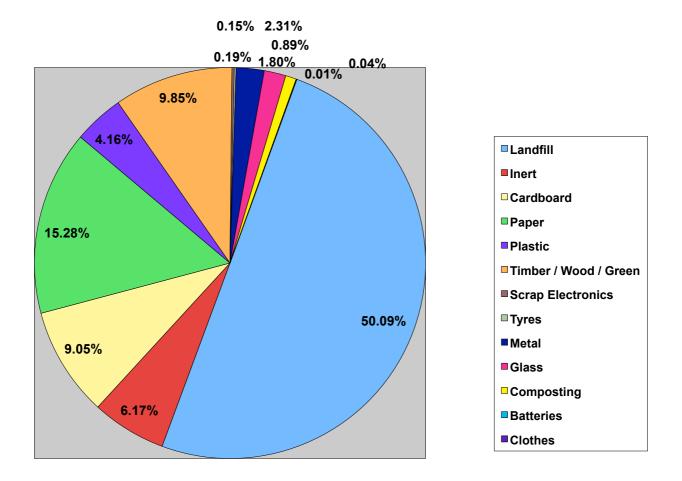


Figure 2.8.2: Breakdown of Waste going off site for Recovery or Disposal from 1^{st} January 2008 – 31^{st} December 2008

Waste out for 2008: Table of quantities by waste type

WASTE TYPE	WASTE OUT (tonnes per annum)
<i>EWC 191212 Mechanically treated mixed</i>	39362.81
waste for landfill (Commercial / Domestic)	
EWC 200202 Inert	4846.37
EWC 200101 Cardboard	7107.66
EWC 200101 Paper	12008.22
EWC 200103 Plastic	3272.20
EWC 200138 Timber / Wood / Green	7743.46
EWC 160201 Scrap Electronics	150.60
<i>EWC 160103 Tyres</i>	114.99
<i>EWC 170407 Metal</i>	1816.43
EWC 200102 Glass	1411.75
EWC 160601 Batteries	10.82
EWC 200110 Clothes	35.26
EWC 170802 Gypsum / Plasterboard	264.70
EWC200108 or EWC 200304	699.78
Compostable Material	
TOTAL	78845.05

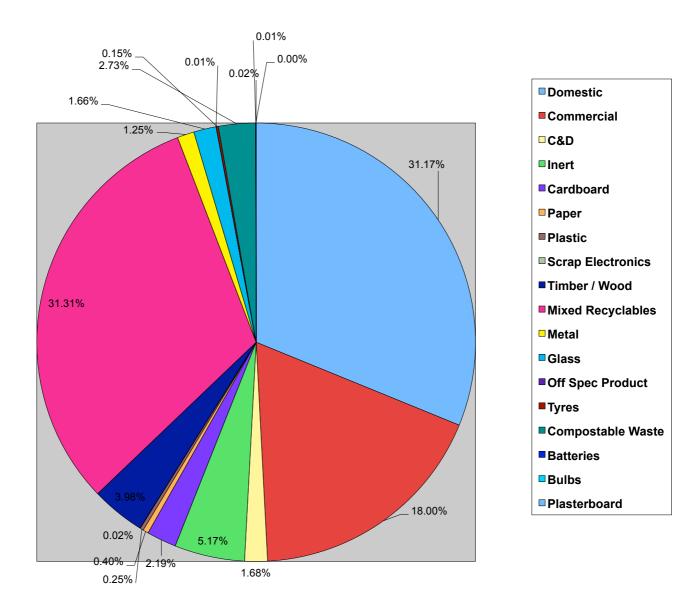
Table 2.8.3: Total Wastes Outgoing 1st January 2008 – 31st December 2008

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2008:

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per	RECYCLING
	annum)	
EWC 200202 Inert	4846.37	12%
EWC 200101 Cardboard	7107.66	18%
EWC 200101 Paper	12008.22	30%
EWC 200103 Plastic	3272.20	8%
EWC 200138 Timber / Wood / Green	7743.46	20%
EWC 160201 Scrap Electronics	150.60	Less than 1%
EWC 160103 Tyres	114.99	Less than 1%
<i>EWC 170407 Metal</i>	1816.43	5%
EWC 200102 Glass	1411.75	4%
EWC 160601 Batteries	10.82	Less than 1%
EWC 200110 Clothes	35.26	Less than 1%
EWC 170802 Gypsum / Plasterboard	264.70	Less than 1%
EWC200108 or EWC 200304	699.78	2%
Compostable Material		
TOTAL	39,482.24	46% of total waste in was recycled for 2008

Table 2.8.4: Breakdown of recycling waste out details for 1st January 2008 – 31st December2008

Waste In / Out Reports for 2009



WASTE IN (2009)

Figure 2.9.0: Breakdown of Waste Received on site from 1st January 2009 – 31st December 2009

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	22356.82
EWC 200100 Commercial	12905.46
<i>EWC 170100 C & D</i>	1202.76
EWC 200202 Inert	3708.53
EWC 200101 Cardboard	1570.58
<i>EWC 200101 Paper</i>	289.72
EWC 200103 Plastic	180.09
EWC 160201 Scrap Electronics	14.88
EWC 200138 Timber / Wood / Green	2852.59
EWC 150101 Mixed Kerbside Recyclables	22451.12
EWC 170407 Metal	893.56
EWC 170202 Glass	1189.34
EWC 160304 Off Spec Product	6.70
EWC 200108 Food Waste	1960.91
EWC 200201 Garden & Park Waste	
EWC 200304 Sludge	
Compostable materials	
EWC 170802 Plasterboard / Gypsum	16.14
EWC 160601 Batteries	5.52
EWC 200121 Fluorescent Tubes	0.1
EWC 160103 Tyres	110.12
TOTAL	71,714.94 TONNES

Waste in for 2009: Table of quantities by waste type

 Table 2.9.1: Total Wastes Incoming 1st January 2009 – 31st December 2009

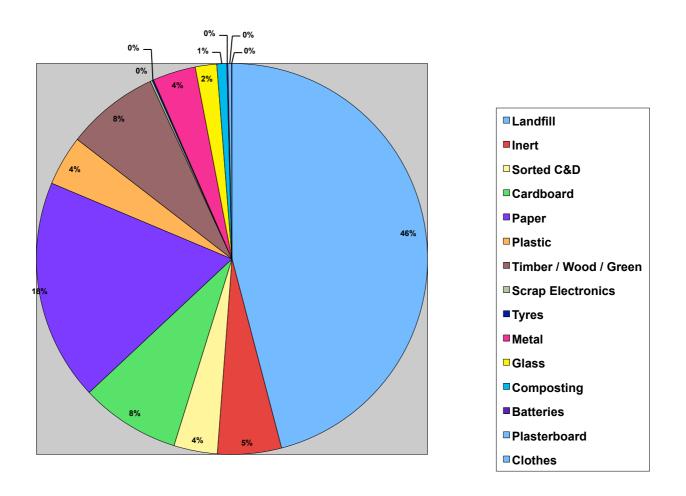


Figure 2.9.2: Breakdown of Waste going off site for Recovery or Disposal from 1st January 2009 – 31st December 2009

WASTE TYPE	WASTE OUT (tonnes per annum)
<i>EWC</i> 191212 <i>Mechanically treated mixed</i>	32188.23
waste for landfill (Commercial / Domestic)	
EWC 200202 Inert	6232.78
EWC 200101 Cardboard	5783.24
EWC 200101 Paper	12849.64
EWC 200103 Plastic	2906.97
EWC 200138 Timber / Wood / Green	5385.64
EWC 160201 Scrap Electronics	121.48
<i>EWC 160103 Tyres</i>	78.14
<i>EWC 170407 Metal</i>	2503.62
EWC 200102 Glass	1245.48
EWC 160601 Batteries	62.82
EWC 200110 Clothes	20.84
EWC 170802 Gypsum / Plasterboard	213.04
EWC200108 or EWC 200304	575.88
Compostable Material	
TOTAL	70167.80 tonnes

Waste out for 2009: Table of quantities by waste type

Table 2.9.3: Total Wastes Outgoing 1st January 2009 – 31st December 2009

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2009:

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per	RECYCLING
	annum)	
EWC 200202 Inert	6232.78	16%
EWC 200101 Cardboard	5783.24	15%
EWC 200101 Paper	12849.64	34%
EWC 200103 Plastic	2906.97	8%
EWC 200138 Timber / Wood / Green	5385.64	14%
EWC 160201 Scrap Electronics	121.48	Less than 1%
<i>EWC 160103 Tyres</i>	78.14	Less than 1%
EWC 170407 Metal	2496.44	7%
<i>EWC 200102 Glass</i>	1245.48	3%
EWC 160601 Batteries	62.82	Less than 1%
EWC 200110 Clothes	20.84	Less than 1%
EWC 170802 Gypsum / Plasterboard	213.04	Less than 1%
EWC200108 or EWC 200304	575.88	2%
Compostable Material		
TOTAL	37,972.39	53% of total waste in was recycled for 2009

Table 2.9.4: Breakdown of recycling waste out details for 1st January 2009 – 31st December2009



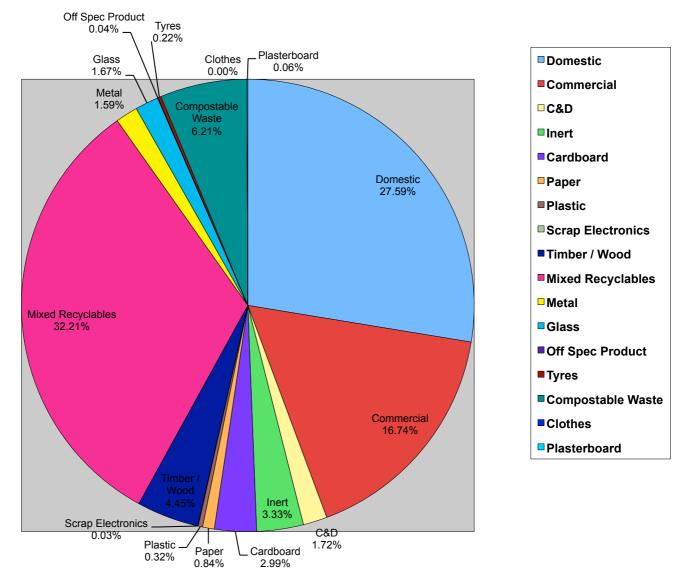


Figure 2.10.0: Breakdown of Waste Received on site from 1st January 2010 – 31st December 2010

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	19,140.78
EWC 200301 Commercial	11,609.68
EWC 170904 Mixed C & D	1,191.54
EWC 170107 Inert	2,310.09
EWC 150101 Cardboard	2,076.90
EWC 200101 Paper	580.54
EWC 200103 Plastic	220.34
EWC 160201 Scrap Electronics	19.98
EWC 200138 Timber / Wood / Green	3083.83
EWC 200199 Mixed Kerbside Recyclables	22342.70
EWC 170407 Metal	1101.82
EWC 200102 Glass	1160.39
EWC 160304 Off Spec Product	24.66
EWC 200108 Food Waste	4,309.15
EWC 200201 Garden & Park Waste	
EWC 200304 Sludge	
Compostable materials	
EWC 170802 Plasterboard / Gypsum	42.42
EWC 160103 Tyres	152.54
EWC 200110 Clothes	0.28
TOTAL	69,367.64 TONNES

Waste in for 2010: Table of quantities by waste type

Table 2.10.1: Total Wastes Incoming 1st January 2010 – 31st December 2010

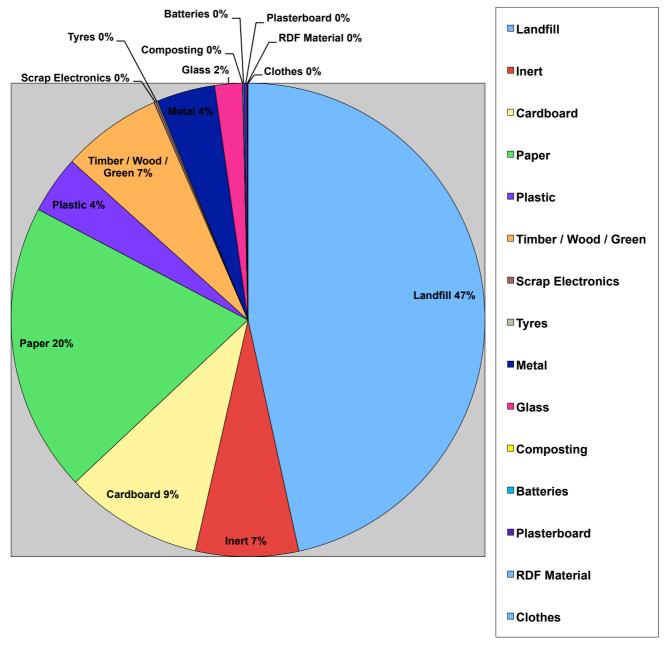


Figure 2.10.2: Breakdown of Waste going off site for Recovery or Disposal from 1^{st} January 2010 – 31^{st} December 2010

Waste out for 2010: Table of quantities by waste type:-

WASTE TYPE	WASTE OUT
	(tonnes per annum)
EWC 191212 Mechanically treated mixed waste for landfill	28,115.82
EWC 200202 Inert	4,227.79
EWC 191201 Cardboard	5,692.87
EWC 191201 Paper	11,916.14
EWC 191204 Plastic	2,382.34
EWC 191207 Timber / Wood / Green	4,131.03
EWC 160201 Scrap Electronics	100.92
EWC 160103 Tyres	51.78
EWC 191203 Metal	2402.76
EWC 191205 Glass	1145.88
EWC 160601 Batteries	56.36
EWC 191208 Clothes	8.18
EWC 170802 Gypsum / Plasterboard	122.44
EWC 200108 or EWC 200304 Compostable Material	7.50
EWC 191210 Refuse Derived Fuel	25.34
TOTAL	60,387.15 TONNES

Table 2.10.3: Total Wastes Outgoing 1	st January 2010 – 31 st December 2010
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RECYCLING SUMMARY FOR 2010

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2010. This table only shows the RECYCLABLE / RECOVERABLE material types and lists the total tonnage recycled during 2010 and the % split that each waste type provides towards the total recycling figure:-

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per annum)	RECYCLING
EWC 200202 Inert	4,227.79	13%
EWC 191201 Cardboard	5,692.87	18%
EWC 191201 Paper	11,592.04	36%
EWC 191204 Plastic	2,706.44	8%
EWC 191207 Timber / Wood / Green	4,131.03	13%
EWC 160201 Scrap Electronics	100.92	Less than 1%
EWC 160103 Tyres	51.78	Less than 1%
EWC 191203 Metal	2,402.76	7%
EWC 191205 Glass	1,145.88	4%
EWC 160601 Batteries	56.36	Less than 1%
EWC 191208 Clothes	8.18	Less than 1%
EWC 170802 Gypsum / Plasterboard	122.44	Less than 1%
EWC 200108 or EWC 200304	7.50	Less than 1%
Compostable Material		
EWC 191210 Refuse Derived Fuel	25.34	Less than 1%
TOTAL	32,271.33	47% of total waste in was recycled for 2010

Table 2.10.4: Breakdown of recycling waste out for 1st January 2010 – 31st December 2010

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Waste In / Out Reports for 2011

WASTE IN (2011)

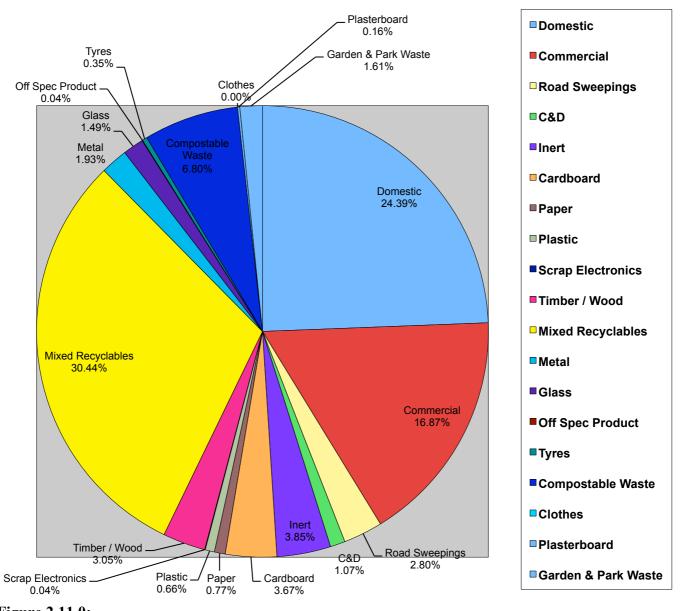


Figure 2.11.0: Breakdown of Waste Received on site from 1st January 2011 – 31st December 2011

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	18335.45
EWC 200301 Commercial	12681.69
EWC 200303 Street / Road Sweepings	2108.55
EWC 170904 Mixed C & D	804.43
EWC 170107 Inert	2894.68
EWC 200201 Garden & Park Waste	1207.05
EWC 150101 Cardboard	2755.96
EWC 200101 Paper	582.18
EWC 200103 Plastic	498.60
EWC 160201 Scrap Electronics / WEEE	33.54
EWC 200138 Timber / Wood / Green	2295.07
EWC 200199 Mixed Kerbside Recyclables	22887.50
EWC 170407 Metal	1454.38
EWC 200102 Glass	1121.93
EWC 160304 Off Spec Product	30.12
EWC 200108 Food Waste	5109.98
EWC 200304 Sludge	
Compostable materials	
EWC 170802 Plasterboard / Gypsum	121.58
EWC 160103 Tyres	260.45
EWC 200110 Clothes	0.10
TOTAL	75,183.24 TONNES

Waste in for 2011: Table of quantities by waste type

 Table 2.11.1: Total Wastes Incoming 1st January 2011 – 31st December 2011

Waste Out 2011

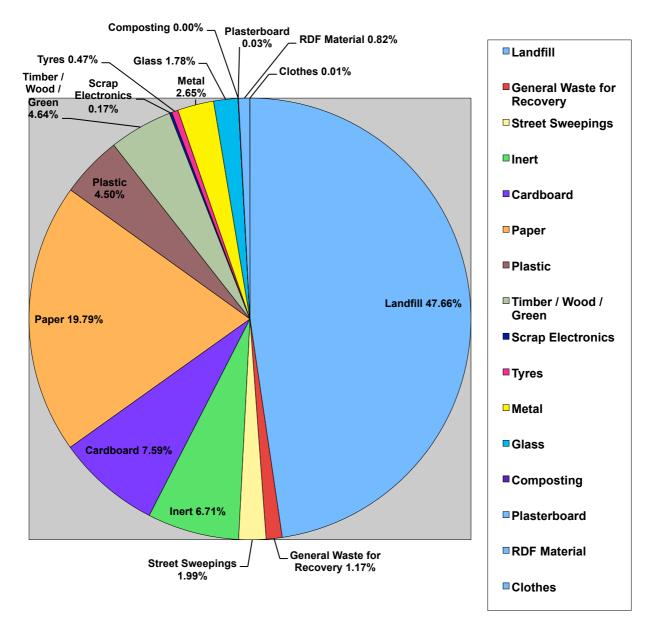


Figure 2.11.2: Breakdown of Waste going off site for Recovery or Disposal from 1st January 2011 – 31st December 2011

Waste out for 2011: Table of quantities by waste type:-

WASTE TYPE	WASTE OUT
	(tonnes per annum)
EWC 191212 Mechanically treated mixed waste for landfill	32,094.62
EWC 191212 Mechanically treated mixed waste for	788.14
recovery (send to Indaver Meath Facility)	
EWC 200303 Road / Street Sweepings	1340.58
EWC 200202 Inert	4520.28
EWC 191201 Cardboard	5111.17
EWC 191201 Paper	13328.88
EWC 191204 Plastic	3031.88
EWC 191207 Timber / Wood / Green	3125.35
EWC 160201 Scrap Electronics	114.46
EWC 160103 Tyres	318.36
EWC 191203 Metal	1784.65
EWC 191205 Glass	1199.26
EWC 191208 Clothes	5.92
EWC 170802 Gypsum / Plasterboard	19.50
EWC 200108 or EWC 200304 Compostable Material	0.58
EWC 191210 Refuse Derived Fuel	551.32
EWC 200199 Mixed Recycling	108.06
TOTAL	67,443.01 TONNES

 Table 2.11.3: Total Wastes Outgoing 1st January 2011 – 31st December 2011

RECYCLING SUMMARY FOR 2011

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2011. This table only shows the RECYCLABLE / RECOVERABLE material types and lists the total tonnage recycled during 2011 and the % split that each waste type provides towards the total recycling figure:-

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per annum)	RECYCLING
EWC 200202 Inert	4520.28	13%
EWC 191201 Cardboard	5111.17	15%
EWC 191201 Paper	13328.88	39%
EWC 191204 Plastic	3031.88	9%
EWC 191207 Timber / Wood / Green	3125.35	9%
EWC 160201 Scrap Electronics	114.46	Less than 1%
EWC 160103 Tyres	318.36	1%
EWC 191203 Metal	1784.65	5%
EWC 191205 Glass	1199.26	4%
EWC 191208 Clothes	5.92	Less than 1%
EWC 170802 Gypsum / Plasterboard	19.50	Less than 1%
EWC 200108 or EWC 200304	0.58	Less than 1%
Compostable Material		
EWC 191210 Refuse Derived Fuel	551.32	2%
EWC 191212 Mechanically treated	788.14	2%
mixed waste for recovery (send to		
Indaver Meath Facility)		
EWC 200199 Mixed Recycling	108.06	Less than 1%
TOTAL	34007.81	45% of total waste in
		was recycled for 2011

 Table 2.11.4: Breakdown of recycling waste out for 1st January 2011 – 31st December 2011



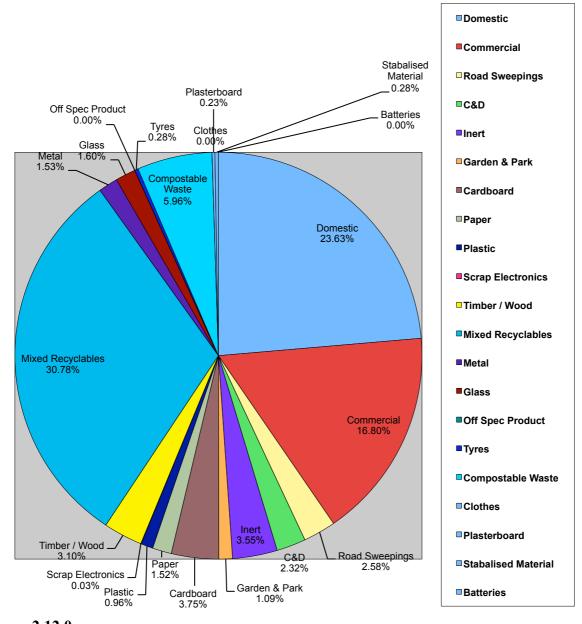


Figure 2.12.0: Breakdown of Waste Received on site from 1st January 2012 – 31st December 2012

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	16973.75
EWC 200301 Commercial	12065.34
EWC 200303 Street / Road Sweepings	1855.76
EWC 170904 Mixed C & D	1667.91
EWC 170107 Inert	2550.56
EWC 200201 Garden & Park Waste	782.98
EWC 150101 Cardboard	2689.79
EWC 200101 Paper	1088.49
EWC 200103 Plastic	689.21
EWC 160201 Scrap Electronics / WEEE	22.90
EWC 200138 Timber / Wood	2224.68
EWC 200199 Mixed Kerbside Recyclables	22106.40
EWC 170407 Metal	1100.56
EWC 200102 Glass	1151.56
EWC 160304 Off Spec Product	1.46
EWC 200108 Food Waste	3943.42
EWC 200304 Sludge	339.36
Compostable materials	
EWC 170802 Plasterboard / Gypsum	161.68
EWC 160103 Tyres	202.67
EWC 200110 Clothes	0.08
EWC 190305 Stabilised Material	198.06
EWC 160604 Alkaline Batteries	1.56
TOTAL	71818.18 TONNES

Waste in for 2012: Table of quantities by waste type

 Table 2.12.1: Total Wastes Incoming 1st January 2012 – 31st December 2012

Waste Out 2012

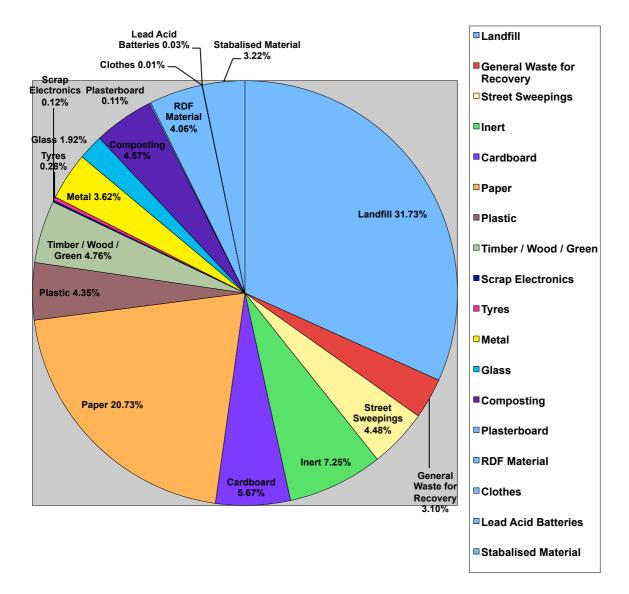


Figure 2.12.2: Breakdown of Waste going off site for Recovery or Disposal from 1st January 2012 – 31st December 2012

Waste out for 2012: Table of quantities by waste type:-

WASTE TYPE	WASTE OUT
	(tonnes per annum)
EWC 191212 Mechanically treated mixed waste for landfill	21779.16
EWC 191212 Mechanically treated mixed waste for recovery	2126.82
(sent to Indaver Meath Facility)	
EWC 200303 Road / Street Sweepings / Stabalised Material	3075.32
EWC 200202 Inert	4979.22
EWC 191201 Cardboard	3891.44
EWC 191201 Paper	14231.94
EWC 191204 Plastic	2982.70
EWC 191207 Timber / Wood / Green	3267.66
EWC 160201 Scrap Electronics	83.50
EWC 160103 Tyres	190.78
EWC 191203 Metal	2487.72
EWC 191205 Glass	1316.74
EWC 191208 Clothes	5.24
EWC 170802 Gypsum / Plasterboard	76.3
EWC 200108 or EWC 200304 Compostable Material	3138.16
EWC 191210 Refuse Derived Fuel	2787.04
EWC 160601* Lead Acid Batteries	18.74
EWC Stabilised Material	2207.52
TOTAL	68,646.00 TONNES

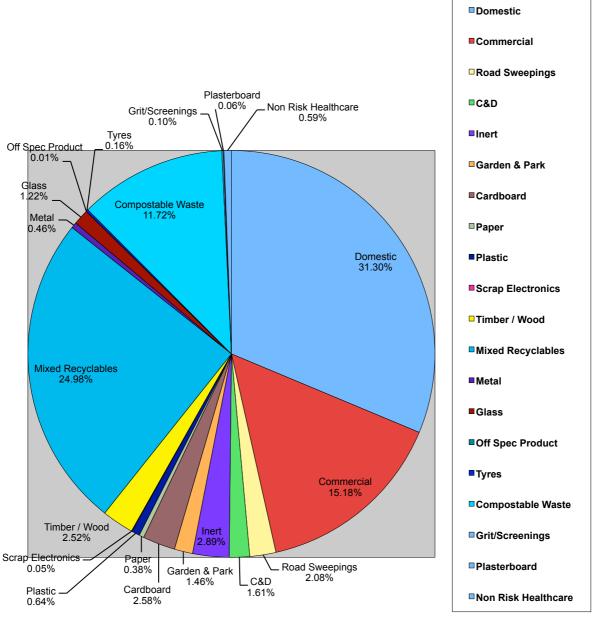
 Table 2.12.3: Total Wastes Outgoing 1st January 2012 – 31st December 2012

RECYCLING SUMMARY FOR 2012

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2012. This table only shows the RECYCLABLE / RECOVERABLE material types and lists the total tonnage recycled during 2012 and the % split that each waste type provides towards the total recycling figure:-

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per annum)	RECYCLING
EWC 200202 Inert	4979.22	8%
EWC 191201 Cardboard	3891.44	9%
EWC 191201 Paper	14231.94	34%
EWC 191204 Plastic	2982.70	7%
EWC 191207 Timber / Wood / Green	3267.66	8%
EWC 160201 Scrap Electronics	83.50	Less than 1%
EWC 160103 Tyres	190.78	Less than 1%
EWC 191203 Metal	2487.72	6%
EWC 191205 Glass	1316.74	3%
EWC 191208 Clothes	5.24	Less than 1%
EWC 170802 Gypsum / Plasterboard	76.3	Less than 1%
EWC 200108 or EWC 200304	3138.16	7%
Compostable Material		
EWC 191210 Refuse Derived Fuel	2787.04	7%
EWC 191212 Mechanically treated	2126.82	5%
mixed waste for recovery (send to		
Indaver Meath Facility)		
EWC 100601* Lead Acid Batteries	18.74	Less than 1%
EWC 190305 Stabilised Material	2207.52	5%
TOTAL	43,791.52	61% of total waste in
		was recycled or
		recycled for 2012

 Table 2.12.4: Breakdown of recycling waste out for 1st January 2012 – 31st December 2012



WASTE IN (2013)

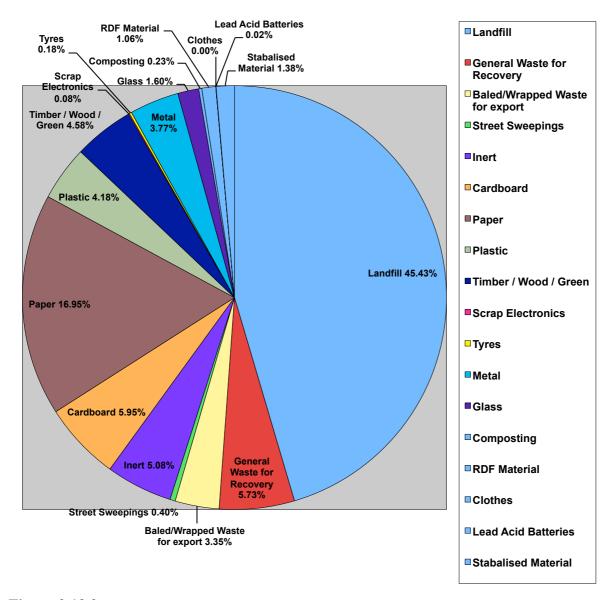
Figure 2.13.0: Breakdown of Waste Received on site from 1st January 2013 – 31st December 2013

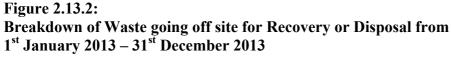
WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	27986.41
EWC 200301 Commercial	13573.78
EWC 200303 Street / Road Sweepings	1857.32
EWC 170904 Mixed C & D	1443.15
EWC 170107 Inert	2580.85
EWC 200201 Garden & Park Waste	1302.56
EWC 150101 Cardboard	2305.97
EWC 200101 Paper	343.16
EWC 200139 Plastic	576.08
EWC 160201 Scrap Electronics / WEEE	45.66
EWC 200138 Timber / Wood	2250.91
EWC 200199 Mixed Kerbside Recyclables	22329.26
EWC 170407 Metal	409.81
EWC 200102 Glass	1093.22
EWC 160304 Off Spec Product	10
EWC 200108 Food Waste	10224.03
EWC 200304 Sludge	250.24
Compostable materials	
EWC 170802 Plasterboard / Gypsum	54.22
EWC 160103 Tyres	147.03
EWC 190801 Grit/screenings	92.68
EWC 180104 Non risk healthcare waste	526.53
TOTAL	89402.87TONNES

Waste in for 2013: Table of quantities by waste type

Table 2.13.1: Total Wastes Incoming 1st January 2013 – 31st December 2013

Waste Out 2013





Waste out for 2013: Table of quantities by waste type:-

WASTE TYPE	WASTE OUT
	(tonnes per annum)
EWC 200301 Mechanically treated mixed waste for landfill	34302.85
EWC 191212 Mechanically treated mixed waste for recovery	4324
(sent to Indaver Meath Facility)	
EWC 200301 Baled/Wrapped waste for export & recovery	2532.58
EWC 200303 Road / Street Sweepings	305.6
EWC 200202 Inert	3834.37
EWC 191201 Cardboard	4494.68
EWC 191201 Paper	12796.88
EWC 191204 Plastics	3156.18
EWC 191207 Timber / Wood / Green	3460.42
EWC 160201 Scrap Electronics	62.92
EWC 160103 Tyres	136.88
EWC 191203 Metal	2844.99
EWC 191205 Glass	1208.76
EWC 191208 Clothes	3.18
EWC 200108 or EWC 200304 Compostable Material	176.56
EWC 191210 Refuse Derived Fuel	803.2
EWC 160601* Lead Acid Batteries	13.24
EWC Stabilised Material (Compost)	1045.22
TOTAL	75502.51 TONNES

 Table 2.13.3: Total Wastes Outgoing 1st January 2013 – 31st December 2013

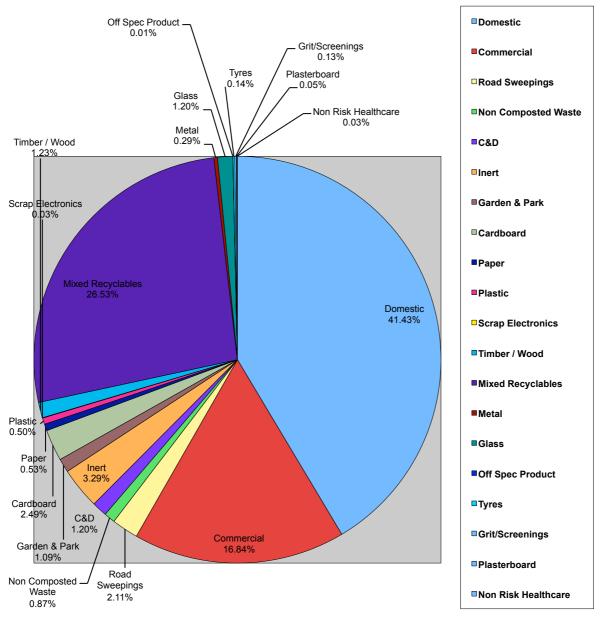
RECYCLING SUMMARY FOR 2013

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2013. This table only shows the RECYCLABLE / RECOVERABLE material types and lists the total tonnage recycled during 2012 and the % split that each waste type provides towards the total recycling figure:-

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per annum)	RECYCLING
EWC 200202 Inert	3834.37	9%
EWC 191201 Cardboard	4494.68	11%
EWC 191201 Paper	12796.88	31%
EWC 191204 Plastic	3156.18	8%
EWC 191207 Timber / Wood / Green	3460.42	8%
EWC 160201 Scrap Electronics	62.92	Less than 1%
EWC 160103 Tyres	136.88	Less than 1%
EWC 191203 Metal	2844.99	7%
EWC 191205 Glass	1208.76	3%
EWC 191208 Clothes	3.18	Less than 1%
EWC 200301 Baled/Wrapped waste	2532.58	6%
for export for recovery		
EWC 200108 or EWC 200304	176.56	Less than 1%
Compostable Material		
EWC 191210 Refuse Derived Fuel	803.2	2%
EWC 191212 Mechanically treated	4324	11%
mixed waste for recovery (send to		
Indaver Meath Facility)		
EWC 100601* Lead Acid Batteries	13.24	Less than 1%
EWC 190305 Stabilised Material	1045.22	3%
TOTAL	40894.06	54% of total waste in
		was sent for recycling
		or recovery for 2013

 Table 2.13.4: Breakdown of recycling waste out for 1st January 2013 – 31st December 2013

Waste In / Out Reports for 2014 (New / Current Reporting Period)



WASTE IN (2014)

Figure 2.14.0: Breakdown of Waste Received on site from 1st January 2014 – 31st December 2014

WASTE TYPE	WASTE IN
	(tonnes per annum)
EWC 200301 Domestic	36866.37
EWC 200301 Commercial	14988.20
EWC 200303 Street / Road Sweepings	1874.14
EWC 190501 Non Composted Fraction of Municipal Wastes	778.46
EWC 170904 Mixed C & D	1068.71
EWC 170107 Inert	2928.46
EWC 200201 Garden & Park Waste	971.86
EWC 150101 Cardboard	2213.77
EWC 200101 Paper	473.98
EWC 200139 Plastic	447.21
EWC 160201 Scrap Electronics / WEEE	28.40
EWC 200138 Timber / Wood	1090.60
EWC 200199 Mixed Kerbside Recyclables	23606.58
EWC 170407 Metal	256.80
EWC 200102 Glass	1068.46
EWC 160304 Off Spec Product	11.44
EWC 170802 Plasterboard / Gypsum	41.12
EWC 160103 Tyres	128.24
EWC 190801 Grit/screenings	111.88
EWC 180104 Non risk healthcare waste	28.96
EWC 200108 Food Waste / Grease (not compostable)	2.96
EWC 200303 Septic Tank Sludge	298.16
EWC 200134 Household Batteries	0.86
EWC 200110 Clothes / Textiles	0.04
TOTAL	89,285.66 tonnes

Waste in for 2014: Table of quantities by waste type

 Table 2.14.1: Total Wastes Incoming 1st January 2014 – 31st December 2014

Waste Out 2014

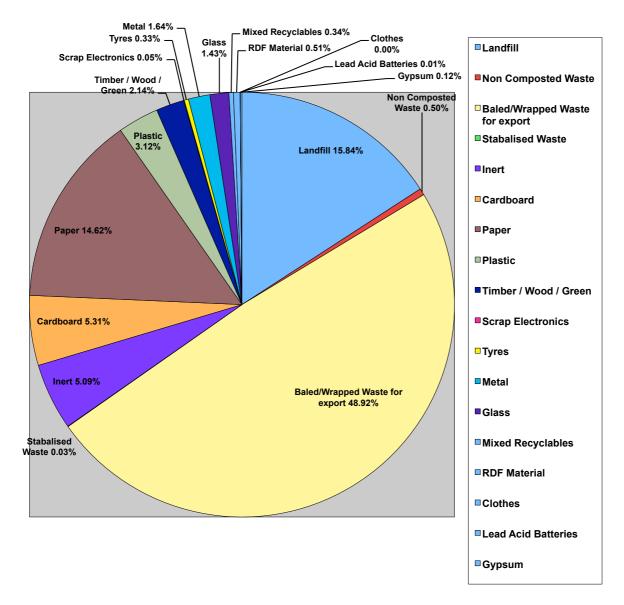


Figure 2.14.2: Breakdown of Waste going off site for Recovery or Disposal from 1st January 2014 – 31st December 2014

Waste out for 2014:	Table of quantities by waste type:-
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WASTE TYPE	WASTE OUT
	(tonnes per annum)
EWC 200301 Pre-sorted waste for landfill	13,462.33
EWC 200301 Mechanically treated mixed waste for recovery	41,586.38
(Baled / Wrapped MSW)	
EWC 190501 Non Composted Municipal Waste	428.94
(compost out throws)	
EWC 190305 Stabilised Waste for Disposal	25.32
EWC 200202 Inert	4325.98
EWC 191201 Cardboard	4515.44
EWC 191201 Paper	12,428.92
EWC 191204 Plastics	2648.06
EWC 191207 Timber / Wood / Green	1821.42
EWC 160201 Scrap Electronics	40.82
EWC 160103 Tyres	277.28
EWC 191203 Metal	1391.58
EWC 191205 Glass	1217.30
EWC 191208 Clothes	1.24
EWC 190801 Grit/screenings	285.82
EWC 200303 Septic Tank Sludge	
EWC 170802 Gypsum / Plasterboard	103.28
EWC 200301 Mixed Recyclables (unsorted)	289.40
EWC 191210 Refuse Derived Fuel	433.82
EWC 160601* Lead Acid Batteries	8.14
TOTAL	85,291.47 tonnes

Table 2.14.3: Total Wastes Outgoing 1st January 2014 – 31st December 2014

RECYCLING / RECOVERY SUMMARY FOR 2014

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2013. This table only shows the RECYCLABLE / RECOVERABLE material types and lists the total tonnage recycled during 2012 and the % split that each waste type provides towards the total recycling figure:-

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per annum)	RECYCLING
EWC 200301 Mechanically treated	41,586.38	58%
mixed waste for recovery (Baled /		
Wrapped MSW)		
EWC 200202 Inert	4325.98	6%
EWC 191201 Cardboard	4515.44	6%
EWC 191201 Paper	12,428.92	17%
EWC 191204 Plastics	2648.06	4%
EWC 191207 Timber / Wood / Green	1821.42	3%
EWC 160201 Scrap Electronics	40.82	0%
EWC 160103 Tyres	277.28	0%
EWC 191203 Metal	1391.58	2%
EWC 191205 Glass	1217.30	2%
EWC 191208 Clothes	1.24	0%
EWC 190801 Grit/screenings	285.82	0%
EWC 200303 Septic Tank Sludge		
EWC 170802 Gypsum / Plasterboard	103.28	0%
EWC 200301 Mixed Recyclables	289.40	0%
(unsorted)		
EWC 191210 Refuse Derived Fuel	433.82	1%
EWC 160601* Lead Acid Batteries	8.14	0%
TOTAL	71,271.60	80% of total waste in
		was sent for recycling
		or recovery for 2014

Table 2.14.4: Breakdown of recycling waste out for 1st January 2014 – 31st December 2014

Explanation of Tonnage on Site at the end of 2014

As can be seen from the waste in and out records outlined above the following are the annual totals for the Barna Recycling site in Carrowbrowne:-

Total Waste In:-	89,285.66 tonnes
Total Waste Out:-	85,291.47 tonnes

This gives a difference of 3,994.19 tonnes of a difference outlining stock on site at the end of the reporting year.

During the course of the reporting year as a company we would always hold a level of stock on site of various products waiting to be processed. As a rule we try to clear the site as much as possible of recyclables etc to reduce the value of stock held at the end of the reporting year. Due to insurance and licence restrictions it is not permitted that excessive stock levels are held in any one area of the site at anytime so stock rotation is an important part of our business.

As an example of typical main items of stock (not taking into account smaller items) at the end of 2014 the following stock was recorded:-

Mixed Recyclables:	950 tonnes
Landfill Waste (loose):	350 tonnes
Saleable Recycling Bales:	600 tonnes
Street Sweepings:	500 tonnes
Baled / Wrapped MSW:	2500 tonnes
RDF:	300 tonnes

All of these are typical stock items and vary in quantity during the reporting year and are only being used to give an example of the typical stock items that make up end of year counts on site.

It was decided because composting material naturally breaking down skews stock figures that compost and waste / recycling would be reported separately in order to give a better picture of waste movements on site.

Compost Facility

Waste In / Out 2014 Summary

Barna Recycling also operate a composting facility on site which is licenced by both the EPA under our existing waste licence 106/2 and in additional is accredited by the Department of Agriculture Fish and the Marine (DAFM) under licence number COMP 40.

The waste in / out of the composting facility is measured on a daily basis and tracked internally.

The material going into the composting facility is booked in using the same weighbridge as the other waste materials however it has it's own software so that those transactions can be kept completely separate from other waste transactions.

This decision was made due to the unique requirement for paperwork within the composting facility and having to produce a waste intake form for each delivery. All relevant information is still recorded for each load just on our own internal IMS system.

Tonnage received into the composting facility will never balance like normal waste types in terms of quantities of waste equating to quantities of end product removed from the site due the natural breakdown of the material.

A summary of waste in for the composting facility specific to 2014 is included below:-

2014 INTAKE SUMMARY

975.24 tonnes
922.88 tonnes
1225.16 tonnes
1248.72 tonnes
1359.36 tonnes
1380.21 tonnes
1314.38 tonnes
1275.86 tonnes
1464.88 tonnes
1408.95 tonnes
1132.52 tonnes
1080.76 tonnes
14,788.91 tonnes
1,232.41 tonnes

This intake tonnage was made up by the delivery of our own materials and also some third party tonnage.

The end product compost material once it has passed all relevant testing for E-Coli, F-Coli, Quality, Nutrition's, Salmonella and AT4 then it is stored in the clean area of the facility for shipment once the 21 day maturation period has passed.

The following compost produce was shipped during 2014:-

2014 OUTGOING SUMMARY

2014 2594.22 tonnes

All end products were shipped to the agriculture industry for use by local farmers as either tillage of pasture land and all farms receiving end products are registered with the Department of Agriculture in advance of receiving their first load. All outgoing shipments are tracked using official commercial documents and these are on file as part of the HACCP plan for review during any inspections.

Finally a summary of typical stock levels that would be held in the composting site at anytime are included below to show stock levels at the end of the 2014 reporting period:-

Out throw for landfill in Storage:	30 tonnes
End product in Storage:	550 tonnes
Batches Screened (for tunnels):	250 tonnes
Batches in Pasteurisation Bunkers:	200 tonnes
In processing Aisles:	1800 tonnes
In reception Aisle (awaiting processing):	500 tonnes

This is shown to give an idea of stock still in the system so that a proper waste in versus waste out comparison can be looked at for 2014 however due to the nature of the material breaking down naturally this will never reach a point of balance.

Date	Vehicle Reg	Customer/Destination	End Usage	Commercial Document Number	Batch Number	Nett Weight(kgs)
17/02/2014	05G8595	Enna Canavan, Beclare	Pasture Land	23	290713	11860
17/02/2014	05G8595	Enna Canavan, Beclare	Pasture Land	23	290713	13720
17/02/2014	05G8595	Enna Canavan, Beclare	Pasture Land	23	290713	15520
17/02/2014	05G8595	Enna Canavan, Beclare	Pasture Land	23	290713	14220
17/02/2014	05G8595	Enna Canavan, Beclare	Pasture Land	23	290713	14700
17/02/2014	05G8595	Enna Canavan, Beclare	Pasture Land	23	290713	14660
17/02/2014	05G8595	Enna Canavan, Beclare	Pasture Land	23	290713	14640
17/02/2014	05G8595	Enna Canavan, Beclare	Pasture Land	23	290713	16880
17/02/2014	05G8595	Enna Canavan, Beclare	Pasture Land	23	290713	18520
01/03/2014	03G10392	Enna Canavan, Beclare	Pasture Land	24	200813	13400
01/03/2014	05G8595	Enna Canavan, Beclare	Pasture Land	24	200813	10960
01/03/2014	03G10392	Enna Canavan, Beclare	Pasture Land	24	200813	14320
01/03/2014	05G8595	Enna Canavan, Beclare	Pasture Land	24	200813	12760
01/03/2014	03G10392	Enna Canavan, Beclare	Pasture Land	24	200813	16620
01/03/2014	05G8595	Enna Canavan, Beclare	Pasture Land	24	200813	11940
01/03/2014	03G10392	Enna Canavan, Beclare	Pasture Land	24	200813	14240
01/03/2014	03G10392	Enna Canavan, Beclare	Pasture Land	24	200813	10820
14/03/2014	03G10392	Tom Kilkelly, Ryehill	Tillage	51	200813	13520
14/03/2014	03G10392	Tom Kilkelly, Ryehill	Tillage	51	200813	14840
14/03/2014	03G10392	Tom Kilkelly, Ryehill	Tillage	51	200813	15460
15/03/2014	03G10392	Tom Kilkelly, Ryehill	Tillage	52	200813	12140
25/03/2014	05G8595	Tom Kilkelly, Ryehill	Tillage	53	170913	15240
26/03/2014	03G11202	Tom Kilkelly, Ryehill	Tillage	54	170913	16000
26/03/2014	03G11202	Tom Kilkelly, Ryehill	Tillage	54	170913	14000
26/03/2014	05G8595	Tom Kilkelly, Ryehill	Tillage	54	170913	15260
26/03/2014	03G11202	Enna Canavan, Beclare	Pasture Land	55	170913	14540
26/03/2014	03G11202	Enna Canavan, Beclare	Pasture Land	55	170913	14700
26/03/2014	03G11202	Enna Canavan, Beclare	Pasture Land	55	170913	14420
27/03/2014	03G11202	Enna Canavan, Beclare	Pasture Land	56	170913	16980
27/03/2014	03G11202	Enna Canavan, Beclare	Pasture Land	56	170913	15420

Detail of the end destination outlets for each load shipped are detailed below:-

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27/03/2014	03G11202	Enna Canavan, Beclare	Pasture Land	56	2102013	16140
27/03/2014	03G11202	Enna Canavan, Beclare	Pasture Land	56	2102013	17600
27/03/2014	03G11202	Enna Canavan, Beclare	Pasture Land	56	2102013	15620
01/04/2014	03G11202	Enna Canavan, Beclare	Pasture Land	57	2102013	14460
01/04/2014	03G11202	Enna Canavan, Beclare	Pasture Land	57	2102013	14300
02/04/2014	05G8595	Padraig Boyle, Monivea	Pasture Land	25	2102013	19100
02/04/2014	05G8595	Padraig Boyle, Monivea	Pasture Land	25	2102013	19020
02/04/2014	05G8595	Padraig Boyle, Monivea	Pasture Land	25	2102013	18040
03/04/2014	03G11202	Enna Canavan, Beclare	Pasture Land	58	5112013	19160
03/04/2014	03G11202	Enna Canavan, Beclare	Pasture Land	58	5112013	14400
03/04/2014	03G11202	Enna Canavan, Beclare	Pasture Land	58	5112013	14280
03/04/2014	03G11202	Enna Canavan, Beclare	Pasture Land	58	5112013	14100
03/04/2014	03G11202	Enna Canavan, Beclare	Pasture Land	58	5112013	15040
04/04/2014	03G11202	Enna Canavan, Beclare	Pasture Land	59	5112013	15120
04/04/2014	03G11202	Enna Canavan, Beclare	Pasture Land	59	5112013	14420
04/04/2014	03G11202	Enna Canavan, Beclare	Pasture Land	59	5112013	14440
04/04/2014	03G11202	Enna Canavan, Beclare	Pasture Land	59	5112013	16300
04/04/2014	03G11202	Enna Canavan, Beclare	Pasture Land	59	5112013	15180
18/04/2014	05G8595	Paul Gleeson, Tuam		26	5112013	13180
18/04/2014 18/04/2014	05G8595	Paul Gleeson, Tuam Paul Gleeson, Tuam	Tillage Tillage	26	5112013	13900
22/04/2014	05G8595					15040
22/04/2014	05G8595	Paul Gleeson, Tuam Paul Gleeson, Tuam	Tillage	27 27	12112013 12112013	13040
	05G8595		Tillage			
22/04/2014		Paul Gleeson, Tuam	Tillage	27	12112013	17220
22/04/2014	03G11202 05G8595	Paul Gleeson, Tuam	Tillage	27	12112013	13980
23/04/2014		Paul Gleeson, Tuam	Tillage	28	12112013	12220
23/04/2014	03G11202	Paul Gleeson, Tuam	Tillage	29	12112013	13860
24/04/2014	05G8595	Paul Gleeson, Tuam	Tillage	30	12112013	15540
24/04/2014	03G11202	Paul Gleeson, Tuam	Tillage	31	12112013	17100
24/04/2014	03G11202	Paul Gleeson, Tuam	Tillage	31	12112013	14060
24/04/2014	03G11202	Paul Gleeson, Tuam	Tillage	31	12112013	14840
24/04/2014	03G11202	Paul Gleeson, Tuam	Tillage	31	12112013	17920
24/04/2014	03G11202	Paul Gleeson, Tuam	Tillage	31	12112013	15940
08/05/2014	05G8595	Paul Gleeson, Tuam	Tillage	32	12112013	16300
22/05/2014	05G8595	Henry Walsh, Oranmore	Tillage	33	14012014	13800
22/05/2014	05G8595	Henry Walsh, Oranmore	Tillage	33	14012014	15220
22/05/2014	05G8595	Henry Walsh, Oranmore	Tillage	33	14012014	15660
27/05/2014	05G8595	Henry Walsh, Oranmore	Tillage	34	14012014	15620
28/05/2014	04G11236	Finnegans Farm - Cortoon	Tillage	61	14012014	18360
28/05/2014	05G8595	Henry Walsh, Oranmore	Tillage	35	14012014	15460
28/05/2014	05G8595	Henry Walsh, Oranmore	Tillage	35	14012014	16700
28/05/2014	05G8595	Henry Walsh, Oranmore	Tillage	35	14012014	14720
28/05/2014	05G8595	Henry Walsh, Oranmore	Tillage	35	14012014	13180
05/06/2014	05G8595	Henry Walsh, Oranmore	Tillage	36	14012014	15460
05/06/2014	05G8595	Henry Walsh, Oranmore	Tillage	36	14012014	16980
05/06/2014	05G8595	Henry Walsh, Oranmore	Tillage	36	14012014	20560
10/06/2014	03G11202	Henry Walsh, Oranmore	Tillage	37	20012014	15840
11/06/2014	03G11202	Henry Walsh, Oranmore	Tillage	38	20012014	16180
11/06/2014	03G11202	Henry Walsh, Oranmore	Tillage	38	20012014	17240
11/06/2014	03G11202	Henry Walsh, Oranmore	Tillage	38	20012014	2960
11/06/2014	03G11202	Henry Walsh, Oranmore	Tillage	38	20012014	15880
16/06/2014	03G11202	Henry Walsh, Oranmore	Tillage	39	20012014	17640
16/06/2014	05G8595	Henry Walsh, Oranmore	Tillage	39	20012014	18220
17/06/2014	03G11202	Henry Walsh, Oranmore	Tillage	40	20012014	18220
	03G11202	Henry Walsh, Oranmore		70	20012014	10020

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17/06/2014	03G11202	Henry Walsh, Oranmore	Tillage	40	20012014	17100
17/06/2014	03G11202	Henry Walsh, Oranmore	Tillage	40	20012014	15960
17/06/2014	03G11202	Henry Walsh, Oranmore	Tillage	40	20012014	17720
17/06/2014	03G11202	Henry Walsh, Oranmore	Tillage	40	20012014	16480
17/06/2014	05G8595	Henry Walsh, Oranmore	Tillage	40	20012014	15880
18/06/2014	04G11236	Finnegans Farm - Cortoon	Tillage	62	7032014	21760
18/06/2014	04G11236	Finnegans Farm - Cortoon	Tillage	62	7032014	19960
18/06/2014	03G11202	Michael Crowe, Corandulla	Pasture Land	42	11022014	17300
18/06/2014	03G11202	Michael Crowe, Corandulla	Pasture Land	42	11022014	16160
18/06/2014	05G8595	Finnegans Farm - Cortoon	Tillage	41	11022014	17320
19/06/2014	03G11202	Michael Crowe, Corandulla	Pasture Land	43	11022014	17800
19/06/2014	05G8595	Michael Crowe, Corandulla	Pasture Land	43	11022014	18620
19/06/2014	05G8595	Michael Crowe, Corandulla	Pasture Land	43	11022014	15940
19/06/2014	04G11236	Finnegans Farm - Cortoon	Tillage	63	11022014	20500
20/06/2014	04G11236	Finnegans Farm - Cortoon	Tillage	64	11022014	23600
01/07/2014	05G8595	Pat Burke, Oranmore	Pasture Land	44	7032014	16160
01/07/2014	05G8595	Pat Burke, Oranmore	Pasture Land	44	7032014	18260
01/07/2014	05G8595	Pat Burke, Oranmore	Pasture Land	44	7032014	14300
02/07/2014	05G8595	Pat Burke, Oranmore	Pasture Land	45	7032014	14880
02/07/2014	05G8595	Pat Burke, Oranmore	Pasture Land	45	7032014	16580
03/07/2014	05G8595	Pat Burke, Oranmore	Pasture Land	65	7032014	11900
03/07/2014	05G8595	Pat Burke, Oranmore	Pasture Land	65	7032014	15100
03/07/2014	05G8595	Pat Burke, Oranmore	Pasture Land	65	7032014	14740
04/07/2014	05G8595	Pat Burke, Oranmore	Pasture Land	66	7032014	13900
10/07/2014	03G11202	Michael Crowe, Corandulla	Pasture Land	67	11022014	12980
10/07/2014	03G11202	Michael Crowe, Corandulla	Pasture Land	67	11022014	13540
10/07/2014	03G11202	Michael Crowe, Corandulla	Pasture Land	67	11022014	13120
10/07/2014	03G11202	Michael Crowe, Corandulla	Pasture Land	67	11022014	12920
10/07/2014	03G11202	Michael Crowe, Corandulla		67	11022014	12320
17/07/2014	03G11202	Michael Crowe, Corandulla	Pasture Land Pasture Land	68	7032014	13380
17/07/2014	03G11202	Michael Crowe, Corandulla		68	7032014	13380
	05G8595		Pasture Land			
01/09/2014	05G8595	Michael Crowe, Corandulla	Pasture Land	69	7032014	28200
02/09/2014	05G8595	Michael Crowe, Corandulla	Pasture Land	70	20032014	14560
02/09/2014	05G8595	Michael Crowe, Corandulla	Pasture Land	70	20032014	13280
03/09/2014	05G8595	Michael Crowe, Corandulla	Pasture Land	71	20032014	14260
03/09/2014	03G11202	Tom Nohilly, Monivea	Pasture Land	72	20032014	14020
18/09/2014	03G11202	Larry Curran, Spiddall	Pasture Land	73	20032014	13280
18/09/2014	03G11202 03G11202	Larry Curran, Spiddall	Pasture Land	73	20032014	12220
18/09/2014		Larry Curran, Spiddall	Pasture Land	73	20032014	6760
24/09/2014	03G11202	Larry Curran, Spiddall	Pasture Land	46	20032014	15440
25/09/2014	03G11202	Larry Curran, Spiddall	Pasture Land	77	20032014	18080
25/09/2014	03G11202	Larry Curran, Spiddall	Pasture Land	77	20032014	19260
25/09/2014	03G11202	Larry Curran, Spiddall	Pasture Land	77	20032014	18760
25/09/2014	03G11202	Larry Curran, Spiddall	Pasture Land	77	20032014	19380
26/09/2014	03G11202	Larry Curran, Spiddall	Pasture Land	78	20032014	19200
26/09/2014	03G11202	Larry Curran, Spiddall	Pasture Land	78	20032014	18160
26/09/2014	03G11202	Larry Curran, Spiddall	Pasture Land	78	16042014	18180
26/09/2014	03G11202	Larry Curran, Spiddall	Pasture Land	78	16042014	18980
26/09/2014	04G11236	Larry Curran, Spiddall	Pasture Land	79	16042014	24860
26/09/2014	04G11236	Larry Curran, Spiddall	Pasture Land	79	16042014	23800
26/09/2014	04G11236	Larry Curran, Spiddall	Pasture Land	79	16042014	27080
24/10/2014	03G11202	Larry Curran, Spiddall	Pasture Land	47	16042014	14620
24/10/2014	03G11202	Larry Curran, Spiddall	Pasture Land	47	16042014	13740
12/11/2014	03G11202	Larry Curran, Spiddall	Pasture Land	48	16042014	16340

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12/11/2014	03G11202	Larry Curran, Spiddall	Pasture Land	48	16042014	17880
12/11/2014	03G11202	Larry Curran, Spiddall	Pasture Land	48	16042014	18320
12/11/2014	03G11202	Larry Curran, Spiddall	Pasture Land	48	16042014	19080
12/11/2014	05G8595	Larry Curran, Spiddall	Pasture Land	80	24042014	15440
12/11/2014	05G8595	Larry Curran, Spiddall	Pasture Land	80	24042014	14080
12/11/2014	05G8595	Larry Curran, Spiddall	Pasture Land	80	24042014	14840
12/11/2014	05G8595	Larry Curran, Spiddall	Pasture Land	80	24042014	16200
13/11/2014	03G11202	Larry Curran, Spiddall	Pasture Land	49	24042014	20620
13/11/2014	03G11202	Larry Curran, Spiddall	Pasture Land	49	24042014	13180
13/11/2014	03G11202	Larry Curran, Spiddall	Pasture Land	49	24042014	18340
13/11/2014	03G11202	Larry Curran, Spiddall	Pasture Land	49	24042014	18020
13/11/2014	05G8595	Larry Curran, Spiddall	Pasture Land	81	24042014	15920
13/11/2014	05G8595	Larry Curran, Spiddall	Pasture Land	81	24042014	16060
13/11/2014	05G8595	Larry Curran, Spiddall	Pasture Land	81	24042014	14140
13/11/2014	05G8595	Larry Curran, Spiddall	Pasture Land	81	24042014	14320
13/11/2014	05G8595	Larry Curran, Spiddall	Pasture Land	81	24042014	15080
14/11/2014	03G11202	Larry Curran, Spiddall	Pasture Land	50	9062014	17680
14/11/2014	03G11202	Larry Curran, Spiddall	Pasture Land	50	9062014	16780
14/11/2014	03G11202	Larry Curran, Spiddall	Pasture Land	50	9062014	17100
14/11/2014	03G11202	Larry Curran, Spiddall	Pasture Land	50	9062014	18400
14/11/2014	05G8595	Larry Curran, Spiddall	Pasture Land	82	9062014	16740
14/11/2014	05G8595	Larry Curran, Spiddall	Pasture Land	82	9062014	16960
14/11/2014	05G8595	Larry Curran, Spiddall	Pasture Land	82	9062014	15760
14/11/2014	05G8595	Larry Curran, Spiddall	Pasture Land	82	9062014	17240
17/11/2014	03G10392	Oisin Kenny	Landscaping	N/A	9062014	17300
.,=-,=== !	1	,		TOTAL GOODS SHIPPED TO DATE		2594220
				TOTAL GOODS SHIPPED TO DATE		2334220

Processed material must pass a quality test based on conditions set out in our EPA licence. Compost is checked for traces of metals, impurities and gravel or stones to ensure the composting process had produced a good quality material. There were no instances of quality failures of any batch during this reporting period.

All batches processed in 2014 were free from E-COLI and Salmonella following laboratory testing and therefore no rejected batches were recorded during the reporting period. All completed batches are allowed to mature for at least 21 days prior to consideration for shipment as per the requirements of our EPA licence.

Finally all material must be put through an AT4 test to determine if the material was stabilised and the composting process has been completed. The AT4 test must show that the material is <10mg/o2/g and once again all composting batches processed in 2014 reached the appropriate standard as specified in our EPA licence.

The following records are available on request in relation to our composting:

- E-Coli Test Results
- Salmonella Test Results
- AT4 Test Results
- Trace Element (Compost Quality) Test Results
- HACCP Plan and associated procedures

Waste In / Out 2014 Summary

Tonnages through the facility in 2014 increased significantly in comparison to the previous reporting year to just over 100,000 tonnes from the 89,000 tonnes accepted in 2013. This was a significant rise and positive news for the company overall.

The main reasons behind this increase in tonnage are outlined below:

- 1) Composting Tonnage through the composting facility was a significant focus for the company during 2014 and we increased tonnage here by almost 5,000 tonnes increasing to just under 15,000 tonnes overall.
- 2) Mixed Recycling Tonnages of mixed recycling increased by over 1,000 tonnes in comparison with the previous year mainly due to the introduction of a full year of collections on our Galway City Council Contract
- General Waste Tonnages increased here also due to the introduction of the baling / wrapping programme with tonnages previously going to landfill coming to Galway for processing

In relation to tonnages it marks a significant milestone for the company to have it's first ever year accepting over 100,000 tonnes of material onto the facility. End of year stocks would be deemed to be at a very normal and acceptable level so it's credit to the plant, equipment and staff on site that the company was able to cope with the significant increase in tonnage from 2013 to 2014.

The compost tonnage was a large contributor and the facility which is licenced for 20,000 tonnes per annum is currently running at about 75% capacity and therefore scope for more growth during 2015. The extra tonnage collected here represents the material from Galway City Council areas which we now operate and a new outside contractor using the facility.

General waste which was always transferred to landfill sites for disposal is now being transferred back to the Galway Facility for baling / wrapping. This makes up the rest of the main change for 2013 to 2014 and this also has a significant impact on the overall positive upturn in tonnage.

Despite the excellent progress in 2014 we would not expect to see significant changes in tonnage from 2014 to 2015. If stock can be maintained as existing levels then this would be positive.

2.14.5 Summary of Recycling Outlets used in 2014

Barna Recycling are committed to finding new recycling markets in Ireland, Europe and Worldwide to ensure materials produced from the picking station and the other areas in our waste transfer station are sent to the best possible recycling outlets. All outlets for the materials going out have been approved in advance by the EPA. A summary of the major recycling outlets currently quoting and purchasing material is included below:

Metals

Galway Metal (Galway) - WFP-G-09-0006-05

Cardboard & Paper

Peute Papier Recycling (Holland) – IRE/G006/14 Recycling UK (England) – IRE/G069/15 Irish Packaging Recycling (Panda, Ireland) – IRE/G133/15 Agnail Limited – IRE/AG117/16 Cellmark (USA) – IRE/AG175/15 Northwood recycling Limited – IRE/G282/15

Polystyrene

WRC Recycling (Scotland) – IRE/G121/12 Leinster Environmental – IRE/G127/15

Plasterboard

Baron Recycling Limited – IRE/G213/15 Macnabb Brothers – LN/09/111/M

Plastics

WRC Recycling (Scotland) – IRE/G121/15 Leinster Environmental – IRE/G127/15 Peute Plastic Recycling (Holland) – IRE/G281/14 Jayplas (England) – IRE/G058/12 Shabra (Monaghan) – WFP-MN-08-0022-01 Envirolink (England) – IRE/G134/12 Materia Environmental Limited – IRE/AG161/15

Textiles

Textile Recycling Ireland Limited - NWCPO-08-01225-01

<u>Glass</u>

Rehab Glassco – WFP-KE-08-0957-01

Green Waste

Barna Recycling Composting Site (Galway) - EPA 106/2

Wood

Eirebloc, Lissarda, Co. Cork – WFP-CK-11-0087-02 OCR Waste Management, Roscommon – WFP-RN-10-0001-01

WEEE

Electrical Waste Management - WFP-DS-09-0012-01

Batteries

Electrical Waste Management - WFP-DS-09-0012-01

<u>Tyres</u>

Duffy Tyre Recycling - WCP-DL-10-236-01 Agnail Limited – IRE/AG117/12

General Waste – Landfill

Drehid Landfill – EPA 0201-03 Rathroeen Landfill – EPA 0067/02

Tyres

Duffy Tyre Recycling - WCP-DL-10-236-01 Agnail Limited – IRE/AG117/12

Bulky Waste Barna Recycling (Galway) – EPA WL106/02

<u>General Waste – For Recovery</u> Indaver Ireland – EPA WO167/03 Cellmark (USA) – IRE/AG175/15

Paperwork / Certification for Recyclable Loads & National TFS Office

Recycling certificates are requested and kept on file for most of the companies who take recyclable material from our site. These are requested on a monthly basis and are all on file in our offices. Details of all individual transactions of waste going off site are also available from our offices and paperwork for any individual load can be viewed on request. This paperwork includes weighbridge tickets, laydown / transfer documents and the annex vii forms which are required to accompany each waste movement. Loading pictures are normally available for materials loaded into containers for the export markets.

Barna Recycling are registered as a shipper of green list material with the TFS office in Dublin and our broker's registration number for 2014 currently is:- **IRE/G032/15.**

The National TFS Office monitor, track and inspect loads of waste / recyclables being shipped from Ireland to destinations worldwide. This process has been welcomed by Barna Recycling and ensures that everyone who we sell material to are also registered as an approved broker with the TFS office and that the end destinations which they use for our material are also registered and checked by the National TFS Office. The process of checking random containers at ports in Ireland means it is essential that we produce a good quality material via our picking station to ensure inspections are passed and no materials are rejected. The introduction of the National TFS Office has regulated the business of shipping recyclable material and everyone now works to the same process.

All outlets used by Barna Recycling are registered with the National TFS Office and therefore ensures all our material is looked after properly and by reputable companies.

As part of our internal procedures we do not sell material to any destination / broker unless that person makes an effort to personally visit our facility. This is done for two reasons, one to ensure that they see the material they propose to purchase in person and can confirm they are happy with the quality on show and in the way the material is processed. Secondly this gives us a feel for the proposed partner and how they work. We do not ship to anyone who does not make the effort to visit the facility even if they offer the best price and we feel this is the best way to ensure long term sustained partners, reliable payment and the avoidance of using companies who may not look after the material in a proper manner.

3.0 Actual & Projected Waste Quantities

The following are our projected waste quantities for next year:

Table 3.0.1 outlines some projected waste quantities for the next reporting year and onwards.

Table 5.0.1. Actual and 1 rojected Waste Quantities					
WASTE TYPE	TONNES PER ANNUM				
	2005	2006	2007	2008	2009
Household	22134.78	29328.22	28840.92	18539.17	22356.82
Commercial	17874.97	16095.29	22150.64	26433.11	12905.46
Construction and	4594.86	6234.14	5988.48	2729.37	1202.76
Demolition					
Others	21526.33	33,489.19	35625.35	35784.14	33288.99
Biowaste	0	0	1525.88	1674.44	1,960.91
Total	66130.94	85146.84	94,131.27	85,160.23	71,714.94

Table 3.0.1: Actual and Projected Waste Quantities

WASTE TYPE	TONNES PER ANNUM				PROJECTION	
	2010	2011	2012	2013	2014	2015
Household	19,140.78	18,335.45	16973.75	27,986.41	36,866.37	37,500
Commercial	11,613.86	14,637.36	12065.34	13,573.78	14988.20	15,000
Construction and Demolition	1,192.84	804.43	1667.91	1,443.15	1068.71	2,000
Others	33,117.07	34,936.09	36,828.40	36,175.50	36,362.38	37,500
Biowaste	4,303.09	6,469.91	4282.78	10,224.03	14,788.91	16,500
Total	69,367.64	75,183.24	71,818.18	89,402.87	104,074.57	108,500

4. Site Infrastructure and Operations

4.1 Existing Facility & Operations

This section of the report is designed to give the reader an overview of our facility in relation to how it is set-up, the plant machinery available to us, the facilities on site and our key operational areas. Therefore the infrastructure and set-up of the existing Barna Recycling facility is outlined below. The site has been continually developed over the past thirteen years and at the end of the current reporting period was laid out as follows:

• Site Accommodations:

- 1) Canteens all staff both in the yard areas and office areas have their own canteens equipped with modern electrical equipment, hot and cold water and changing facilities
- 2) Administration Offices comprises of a weighbridge office adjacent to our two weighbridges supported by a larger administration office building housing administration staff including Facility Manager, Operations Manager, Transport Manager and all Accounts and Sales staff, meeting rooms and archive storage. The main reception area is located within this office.
- 3) Toilet Facilities toilet facilities in place at the front and rear of the facility
- 4) Changing Facilities locker rooms, changing & washing facilities available for all staff on site both in Operations and Administration
- 5) First Aid Room fully stocked first aid room and trained first aiders at the site.

Site Infrastructure

- Two calibrated weighbridges (weigh in / weight out) system at the entrance of the facility which are equipped with weighbridge software
- The main transfer building incorporates several areas for:
- Section 1: NON RECOVERABLE LANDFILL WASTE STORAGE
- **Section 2:** MIXED RECYCLABLES STORAGE (pre-picking station)
- Section 3: PICKING STATION
- Section 4: BALING AREA
- **Section 5:** WASTE QUARANTINE AREA
- Section 6: BACK UP BALING AREA
- Section 7: PAPER SHREDDING AREA
- Section 8: MSW BALING / WRAPPING AREA
- Section 9: COMPOSTING BUILDING
- Section 10: CIVIC AMENITY SITE
- **Section 11:** WRAPPED BALE STORAGE AREA

- The transfer building is equipped with adequate floor space to cope with the volume of waste and/or recyclables being handled at the facility. The building is split into two imaginary halves one side which handles the mixed general (non recoverable) waste and the other side of the building is used for managing the recyclable materials. Mixed general waste materials are sorted by hand and grab machine or loading shovel to ensure any materials that can be recovered are salvaged before the load is sent to landfill or for baling / wrapping. In normal circumstances the floor is cleared at the end of each working day.
- Our picking station is equipped at the front end with ballistic separators which pre-sort the material before manual sorting. Once through the front end of the process material is manually sorted by our operators who use positive and negative picking to sort material by grade. The picking process is supported by a magnet and edicurrent for sorting metal / aluminium. During this reporting period we added an optical sorting machine which assists with the automated sorting of paper products. Material sorted from the picking station is then baled directly in the adjacent balers.
- Baling / Wrapping area is set-up in the new part of our site and allows us the ability to produce a mechanically treated MSW product for export to recovery outlets. This area is equipped with adequate storage space for the loose MSW, it has a shredder for shredding the MSW and removing metal, a trommel screen to remove organic fines and then a combined baling and wrapping machine to wrap the end produce ready for export.
- Wrapped Bale Storage Area was constructed during this reporting period which allows for the storage of up to 4000 bales of wrapped MSW product in the open yard area of the site
- End product storage shed an enclosed building for storing products which are produced via our picking station which keeps them dry and in the best possible condition for selling to potential buyers. During this reporting period a new roof was constructed which links the baling area with the storage area and means this entire operation now takes place inside.
- Maintenance building and maintenance yard for carrying out maintenance work and storing equipment. This section has a full time on site mechanic, fitter and support team. This area is also kitted with a bunded oil storage area for fresh and used oil.
- Civic Amenity Site located at the front of our facility next to our weighbridge office. The site is staffed during operational hours and allows the segregation of general waste, mixed recyclables, cardboard, glass, timber, stones, metal, clothes, batteries and all types of white goods and electrical items for members of the public.
- Composting Building for the acceptance and processing of biodegradable material to a European Standard. This process is equipped with fans, scrubbers, curtains, air supplies and mobile plant to ensure composting can be produced at the back end of the facility.
- Wash Bay this area is used for the washing of all trucks and mobile fleet, mobile plant and machinery within the facility and other equipment (such as bins / skips).
- Dock loading bays the facility is equipped with loading bays which allow containers to be backed up to the entrance of our storage shed for loading. This has almost halved the loading times of containers at the site and significantly reduced litter at this area of the site

• Newly constructed shed on permitted area of the site which as yet is not in use but a business plan will be developed for this in 2015.

This current set-up allows us to accept and process the volumes and types of waste / recycling that we currently collect. The plant and equipment we have in place is adequate to support these processes and we have a good quality support staff in place to ensure our operations are able to be carried out as required. Changes to the facility and new investments are always being considered but the current site is equipped with the technology and equipment we require to manage the materials we have today.

Environmental Management System (EMS)

The operation of our facility is supported by our EMS system as required by our EPA licence. The documents within our EMS outline how we carry out our daily operations and contains the forms used to record information from our processes / activities. This system is constantly under review and every document is fully reviewed on at least an annual basis.

This system is ISO 14001 accredited by the NQA. Barna Recycling were audited during 2014 and successfully retained the ISO14001 certification for another year. Details of the audit result are available on request from Barna Recycling.

Significant Change to EMS

During this reporting period there was a significant change to our EMS which involved the incorporation of all procedures required to operate our new composting facility into the existing EMS. These procedures were all new and written specifically for our own composting facility and include forms for recording all necessary records within the facility. All composting procedures can be uniquely identified by the 'COM' in the filename of the procedure. The Compost Manager and Facility Manager are responsible for the maintenance and implementation of these new procedures.

The following details a complete list of the names / titles of all procedures and documents used at the facility at the end of 2014. This is included to give the reader of this report an overview of the policies / procedures we use internally and to provide evidence that an adequate and detailed EMS system is in place:

BARNA RECYCLING - EMS Contents Listing

Document Number	<u>Document Title</u>	<u>Current Revision / Stat</u>	us
1. BW/EMS/001	BW-EMS-001 EMS Manual (REV 6)		6
2. BW/EMS/002	BW-EMS-002 BW Environmental Po	licy (REV 5).DOC	5
3. BW/EMS/003	I.E.R		0
4. BW/EMS/004	BW-EMS-004 Documentation Contro	l Procedure (REV 1).DOC	1
5. BW/EMS/005	BW-EMS-005 Document Issuance Fo	rm (REV 2).XLS	2
6. BW/EMS/006	BW-EMS-006 Document Review For	m (REV 2).XLS	2
7. BW/EMS/007	BW-EMS-007 EMS Programme Man	agement Review Form (REV 1).XLS	1
8. BW/EMS/008	BW-EMS-008 BW Aspects Register (REV 12).xls	12
9. BW/EMS/009	BW-EMS-009 Records Management	Procedure (REV 1).DOC	1
10. BW/EMS/010	BW-EMS-010 Management Team Ro	les & Responsibilities (REV 5).doc	5
11. BW/EMS/011	BW-EMS-011 Management Review S	Schedule (REV 10).XLS	10
12. BW/EMS/012	BW-EMS-012 Revision History Form	(REV 1).XLS	1
13. BW/EMS/013	BW-EMS-013 Training Course Attend	dance Form (REV 1).XLS	1
14. BW/EMS/014	BW-EMS-014 Emergency Preparedne	ess & Response Procedure (REV 3).D	OC

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		3
15. BW/EMS/015	BW-EMS-015 Communications Procedure (REV 2).DOC	2
16. BW/EMS/016	BW-EMS-016 Waste Handling & Disposal Procedure (REV 3).docx	3
17. BW/EMS/017	BW-EMS-017 Accident Report Form (REV 2).doc	2
18. BW/EMS/018	BW-EMS-018 BW Health and Safety Equipment Form (Rev 2).DOC	2
19. BW/EMS/019	BW-EMS-019 BW Training Procedure (Rev 1).DOC	1
20. BW/EMS/020	BW-EMS-020 EMS Records Index (REV 2).DOC	2
21. BW/EMS/021	BW-EMS-021 Environmental Employee Feedback Form (REV 2).XLS	2
22. BW/EMS/022	BW-EMS-022 Approved Supplier Control Procedure (REV 2).DOC	2
23. BW/EMS/023		solete
24. BW/EMS/024	BW-EMS-024 EMS Programmes List (REV 13).doc	12
25. BW/EMS/025	BW-EMS-025 Programme Management Procedure (REV 2).DOC	2
26. BW/EMS/026	BW-EMS-026 Emergency Response Team Listing (REV 10).docx	10
27. BW/EMS/027	Legal Register - Barna Recycling Nov 1st 2013.doc	10
N/A	Legar Register - Darna Recyching Rov 1st 2015.doe	
28. BW/EMS/028	BW-EMS-028 Register of Legislation Management Procedure (REV 4)	doc 4
29. BW/EMS/029	BW-EMS-028 Register of Ecgistation ivital agement roccure (REV 4) BW-EMS-029 EMS Internal Audit Procedure (REV 1).DOC	1
		1
30. BW/EMS/030	BW-EMS-030 Internal Audit Report Form (REV 1).XLS	1
31. BW/EMS/031	BW-EMS-031 Audit Non Conformance Form (REV 1).DOC	1
32. BW/EMS/032	BW-EMS-032 Employee Details Form (REV 1).DOC	1
33. BW/EMS/033	BW-EMS-033 EMS Internal Audit Schedule (REV 14).xls	14
34. BW/EMS/034	BW-EMS-034 Emergency Contact List (REV 5).docx	5
35. BW/EMS/035	BW-EMS-035 Barna Recycling Safety Statement Declaration (REV 0).	
36. BW/EMS/036	BW-EMS-036 Internal Environmental Checklist (REV 0).doc	0
37. BW/Ops/001	BW-OPS-001 Company Organisation Chart (REV 17).doc	17
38. BW/Ops/002	BW-OPS-002 BW Monitoring and Recording Schedule (REV 2).XLS	2
39. BW Ops/003	BW-OPS-003 Foul Water Discharge Meter Reading Form (REV 1).XLS	
40. BW/Ops/004	BW-OPS-004 Waste Inspection Sheet (Rev 4).xls	4
41. BW/Ops/005	BW-OPS-005 Waste Processing Procedure (REV 4).DOC	4
42. BW/Ops/006	BW-OPS-006 Housekeeping & Nuisance Inspection Procedure (REV 2)	.DOC
		2
43. BW/Ops/007	BW-OPS-007 Nuisance & Housekeeping Inspection Sheet (REV 2).DO	C 2
44. BW/Ops/008	BW-OPS-008 BBT Procedure for General Monitoring (REV 2).DOC	2
45. BW/Ops/009	BW-OPS-009 Waste Profiling Form (REV 1).doc	1
46. BW/Ops/010	OBSOLETE – Bund Testing Results Form Ob	
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73. BW/Ops/037	BW-OPS-037 Barna Recycling Facility Health & Safety Guidelines (I	REV
0).DOC 74. BW/Ops/038	OBSOLETE - Barna Recycling Fire Drill Guidelines	0
Obsolete		
75. BW/Ops/039	BW-OPS-039 Barna Recycling Weekly Fire Equipment Checksheet (I	
0).xlsx		0
76. BW/Ops/040 77. BW/Ops/041	BW-OPS-040 Barna Recycling First Aid Equipment Checklist (REV) BW-OPS-041 Barna Recycling Weekly Health & Safety Checklist (R	
0).doc	0	LV
78. BW/Ops/042	BW-OPS-042 Barna Recycling Hot Works Permit (REV 0).doc	0
79. BW/Ops/043	BW-OPS-043 BBT Hot Works Procedure (REV 0).DOC	0
80. BW/Ops/044	BW-OPS-044 Machine – Permit to Work Form (REV 0).doc	0
81. BW/Ops/045	Still to be used missed in error	0
82. BW/Ops/046 83. BW/Ops/047	BW-OPS-046 Health & Safety Records Index (REV 0).doc BW-OPS-047 Induction Checklist for Visitors to Barna Recycling (RI	0 EV (1) doc
65. D W/Ops/04/	0	2 V 0).uoc
84. BW/Ops/048	Composting Waste Acceptance Form	Obsolete
85. BW/Ops/049	Compost Processing Procedure	Obsolete
86. BW/Ops/050	BW-OPS-050 Procedure for Handling a Rejected Load of SRF (REV	<i>,</i>
		0
87. BW/TRA/001 88. BW/TRA/002	BW-TRA-001 Barna Recycling Training Matrix (REV 17).xls BW-TRA-002 Induction Training Procedure (REV 3).doc	17 3
88. BW/TRA/002 89. BW/TRA/003	OBSOLETE - Employee Roll Call Listing	Obsolete
90. BW/TRA/004	OBSOLETE - Approved Forklift Drivers Listing	Obsolete
91. BW/TRA/005	BW-TRA-005 BBT Bin Lifting Equipment Training Document (REV	
92. BW/TRA/006	BW-TRA-006 Health & Safety Ear Muffs Fitting Instructions (REV 0	
93. BW/TRA/007	BW-TRA-007 Health & Safety Foam Plugs Fitting Instructions (REV	0).doc 0
94. BW/COM/001	BW-COM-001 Feedstock Acceptance Procedures (Rev 1).doc	1
95. BW/COM/002	BW-COM-002 Feedstock Supply Contact (Rev 0).doc	0
96. BW/COM/003	BW-COM-003 Guide to Barna Compost Acceptable Waste Types (Re	· ·
97. BW/COM/004	BW-COM-004 Rejected Waste Form (Rev 0).doc	0 0
98. BW/COM/005	BW-COM-005 Barna Compost Material Delivery Form (Rev 0).doc	0
99. BW/COM/006	BW-COM-006 Waste Inspection Log & Rejection Form (Rev 0).doc	ů 0
100. BW/COM/007	BW-COM-007 Procedures in Relation to Transformation Parameter	
	Achievement (Rev 0).doc	0
101. BW/COM/008	BW-COM-008 Batch Record Document (REV 1).doc	1
102. BW/COM/009	BW-COM-009 Particle Size Record Sheet (REV 0).doc	0
103. BW/COM/010 104. BW/COM/011	BW-COM-010 Superbatch Record Sheet (REV 0).doc BW-COM-011 Barna Recycling Pasteurisation Procedure (REV 0).do	0
104. BW/COM/011	0	
BW/COM/012	Not currently in use	
BW/COM/013	Not currently in use	
105. BW/COM/014	BW-COM-014 Temperature Failure Investigation (Rev 0).doc	0
106. BW/COM/015	BW-COM-015 Sampling Procedures (Rev 1).doc	1
107. BW/COM/016	BW-COM-016 Sampling Record E. COLI (Rev 0).doc	0
108. BW/COM/017 109. BW/COM/018	BW-COM-017 Sampling Record Salmonella (Rev 0).doc BW-COM-018 Microbial Failure Procedure (REV 0).doc	0
110. BW/COM/019	BW-COM-018 Microbial Failure Procedure (REV 0).doc BW-COM-019 Microbial Sampling Failure Record Sheet (Rev 0).doc	0
111. BW/COM/020	BW-COM-020 Cleaning and Hygiene Procedures Personnel (Rev 1).d	
112. BW/COM/021	BW-COM-021 Hygiene Inspection Sheet (Rev 0).doc	0
113. BW/COM/022	BW-COM-022 Cleaning and Hygiene Procedures Facility (REV 1).dc	oc 1
114. BW/COM/023	BW-COM-023 Vehicles Exiting via Emergency Exit Record Sheet (R	ev 0).doc
		0
115. BW/COM/024	BW-COM-024 Cleaning in Clean Area Record Sheet (Rev 0).doc	0 (DEV
116. BW/COM/025	BW-COM-025 Procedures to Prevent Re-contamination of Compost 0).doc	(KEV 0
117. BW/COM/026	BW-COM-026 Barna Compost Vermin and Pest Control (Rev 0).doc	0
BW/COM/027	Not currently in use	Ŭ
118. BW/COM/028	BW-COM-028 Barna Compost Records Maintenance & Calibration (I	Rev
	0).doc	0
BW/COM/029	Not currently in use	0
119. BW/COM/030	BW-COM-030 Cold Spots Check Record Sheet (Rev 0).doc	0
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120. BW/COM/031	BW-COM-031 Maintenance Check Record Sheet (Rev 0).doc	0
121. BW/COM/032	BW-COM-032 Compost Dispatch Procedure (Rev 0).doc	Ő
122. BW/COM/033	BW-COM-033 Compost Dispatch Record Sheet (Rev 0).doc	0
BW/COM/034	Not currently in use	
BW/COM/035	Not currently in use	
123. BW/COM/036	BW-COM-036 HACCP Audit Procedure (Rev 0).doc	0
124. BW/COM/037	BW-COM-037 Barna Compost Internal Audit Checklist (Rev 0).doc	0
125. BW/COM/038	BW-COM-038 Barna Compost Training Procedure (Rev 0).doc	0
126. BW/COM/039	BW-COM-039 Record of Training by Barna Compost Personnel (Rev 0)).doc
		0
127. BW/COM/040	BW-COM-040 Barna Compost HACCP (Rev 0).doc	0
128. BW/COM/041	BW-COM-041 Barna Compost Vehicle Exiting Clean Area Record Log	(Rev
	0).doc	0

4.2. Plant & Machinery / Road Fleet

This section of the report details the plant and equipment available for use both on site and in relation to the collection of waste / recyclables. The plant and fleet are under constant review to ensure they meet the requirements of our business.

The current plant either in use or available for use on site consists of the following which demonstrates that we have the appropriate back-up equipment in place should any of the day to day equipment we have on site breaks down.

This is the current list of equipment for the end of the 2014 reporting period:-

- 3 x large loading shovels for managing waste in the transfer area
- 2 x mini loading shovels for managing waste in the picking station bays or main transfer station
- 2 x track machine excavators
- 3 x Liebherr grab machines for loading trucks and managing movements of waste
- 1 x Kabelco grab machine
- 2 x forklifts
- 2 x Teleporters
- 2 x Electric Scissor Lift
- 1 x Finger Screener
- 3 x mobile trommels
- 1 x Extec Stone Shredder/Crusher
- 1 x Pre Shredder / Waste Reducing machine
- 1 x Shredder fitted with magnetic separator
- 2 x EXCEL Baler (1 with bottle piercer)
- 1 x Harris Twin-Ram Baler
- 1 x Metal baling machine
- 2 x Paper Shredding machines
- 3 x Picking Station Conveyers and 8 x Material Bunkers
- 4 x Ballistic Separating Machines
- 1 x Mobile road sweeper
- 2 x Fire Engines
- 1 x Diesel Tanker (used to fill all plant / machinery on site)
- 2 x Weighbridges with Computer system and software
- 1 x Mobile Power Washer
- 2 x Cherry Pickers
- 1 x Hoist
- 10 x 45ft storage containers
- 1 x Daewoo Clamp Loading Forklift
- 1 x JCB Clamp Loading Forklift
- 1 x Mitsubishi Clamp Loading Forklift
- 1 x Swarf Metal Baler / Briquetter
- 1 x Compost Turing Mobile Unit
- 2 x Compost Loading Shovels
- 1 x Titech Optical Sorting Machine
- 18 x Calibrated Temperature Probes

The following is an up to date listing of our road fleet:

- 6 x arctic trucks
- 2 x rigid tankers
- 8 x skip lorries
- 4 x hook bin loaders
- 4 x curtainsider collection / delivery vehicles
- 42 x rear end loaders (standard bin lorries) incorporating twin packs
- 6 x collection delivery vans / jeeps
- 10 x trailers
- 8 x 30m³ ejector trailers for the transfer of waste
- 1 x sludge treatment tanker / dewatering unit
- 2 x glass collection vehicle
- 2 x food collection vehicle
- Container lift
- Tractor unit with Crane Attachment

The above list of plant / machinery provides us with the equipment to manage our busy waste transfer station and waste collections. The above list of equipment is not in permanent use 100% of the time and some of the equipment acts as backup in times where we suffer breakdowns to ensure where possible there is no impact on production or collections. A Transport Manager is in place to ensure the collection fleet are well maintained and our Operations Manager is responsible for ensuring maintenance and proper use of the machinery within the transfer station. The management team are backed up by an onsite mechanic who repairs most defects in house.

A washing programme for all trucks, machinery and equipment is in place to ensure the appearance of our equipment / fleet is always of a high standard. Only is cases of a serious malfunction would our collections or production be seriously affected. Barna Recycling try to invest some of our annual budget each year towards the upgrading of the above list of plant and equipment and this was evident again in 2014.

Our main priorities at present are to ensure that we develop our twin pack collection vehicles to offer us the ability to collect both waste and recyclable material from our customers on the same thus reducing collections from weekly to fortnightly and reducing our costs and carbon footprint.

In addition last year we identified that me must improve the efficiency of our pay by weight through to invoicing structure to allow us access to good quality data and streamline this process. Investment in new systems for this took place in 2014 through the incorporation of MOBA data systems on the backs of most of our trucks and introduction of handheld devices for our drivers and helpers.

A review of the fleet and machinery in terms of age is also underway and a plan is in place to gradually reduce the age of the equipment over the next few years on a phased approach.

For the moment we are comfortable that the above list of machinery / plant is able to manage the volumes of waste we are collecting and processing while providing the appropriate level of backup in the case of breakdown.

4.3. Proposed Future Developments / Specified Engineering Works

The Barna Recycling Facility in Carrowbrowne has been in an almost constant state of change over the past 14 years. We want the facility to continually develop to meet the demands of our customers and the ever changing legislation that affects us as well as being responsive to new technologies which come onto the market.

2014 Upgrades / Changes

During the current reporting period the company again made changes to improve the site and the following is a summary of the main infrastructural changes:-

New MSW Storage Area

• In line with the Agencies and Insurance companies concern in relation to fire safety we decided with the agreement of all parties to construct an outside, open air storage area for our baled and wrapped MSW product. This involved the construction of a dedicated slab hardstand storage area on site which was constructed with new drainage so that any leachate drains via the foul water network. This construction proved to be a very worthwhile project and the slab has been a very important addition to the site in the last half of 2014. It allows us to store bales in a safe manner with a far less risk of fire and the storage of the bales outside also makes the removal of baled material to the port for shipping a much better and safer process to manage. This area comfortably holds up to 4,000 bales at anytime which is enough for each bulk shipment that we make. There have been no leachate or odour issues since we started storing the bales outside.

• Picking Station

During this reporting period we added an optical sorting machine which assists with the automated sorting of paper products. The optical sorter takes in paper and plastics and using laser and air technology will separate the paper from the plastics as opposed to the previous method where these items had to be manually sorted. The optical sorter has allowed us to maintain good quality and throughput levels on the picking station.

Lean To Roof at Baling Area

• During this reporting period a new roof was constructed which links the baling area with the storage area and means this entire operation now takes place inside. This project was agreed in conjunction with the Agency not only to improve the storage facilities for our end products but this roof also improves litter and housekeeping in this part of the site. The roof also provides better working conditions for our staff and has increased storage capacity on site which is beneficial from time to time.

2015 Proposed Developments

The company are committed to continuous improvement of the site and therefore at the beginning of each reporting year we identify areas on the site which are important to provide investment in and ensure they improve and progress. During discussions for 2015 the following have been set as priorities for improvement:-

Composting

• During 2015 we will undertake a programme of improvement in relation to odour management in the compost area. The work will involve the construction of two new 30 metre enclosed concrete bunkers within the compost area which will be used to control incoming stock. The idea is that rather than stock sitting outside in the open plan area it will almost immediately be put into the enclosed bunkers where it can immediately be temperature controlled using air circulated by high speed fans and meaning raw materials are dealt with in a faster more efficienct manner leaving no chance for odour to develop from unprocessed material early in the process. It is hoped that the bunkers will be full constructed and available for use by the end of Q2.

Picking Station

• The picking station on site will be almost completely redeveloped to add some more modern equipment. During the last reporting period we added one Titech Optical Sorting system to one specific line and in 2015 we plan to add two more Titech machines on the other two lines. This project will also involve realigning some conveyor systems, upgrading (via maintenance) of our ballistic separators, the addition of a bag opening facility and introduction of another magnet. The project has been planned for completion by the end of Q3 with the overall aim of the project to increase throughput capability while maintaining the current quality standards.

Bale / Wrap Process

• The upgrades to the bale / wrap process area will not involve much physical construction work more improvement to the layout and controls within the existing area. The change will involve setting up a defined factory like process where everything has a sequence within the area and defined storage bunkers for processed or unprocessed material will be put in place. In addition a process for controlling the fumes, steam and dust in this area will be put in place probably in the form of an extraction system. Having a defined process within this area will greatly improve efficiency and safety within this area.

Maintenance / Storage Compound

• The changes here will have no impact on the licenced facility as all work will take place off the licenced site however it will lead to changes that will have a positive impact on the licenced area. This project will see construction of a new maintenance building and garage where all planned maintenance and repairs will be carried out in addition to storage compounds being created for items such as bins, skips and hook bins. Additional car parking for trucks and company vehicles overnight will also be created as part of this project. On completion of this project it means that all maintenance, storage and parking can be done out with the licenced facility greatly improving housekeeping on the licenced site and freeing up space which can be put to more productive use. It is hoped this project will be complete by the end of Q3.

Fire Water Retention Programme

• During this reporting period we agreed a programme of improvements with the Agency in relation to managing fire water retention on site in the event of an emergency. This project involves a serious of improvements at the site to ensure we are in the best position to manage fire water. The project involves as a summary the construction of a wall along the back of the facility to protect our highest risk area of the waterway at the back of the site. In addition kicker points or lips will be installed under all doors leading to outside areas and the hardstand area adjacent to the company loadings bays and another opposite the weighbridge area will be reconstructed to remove the cracks and general wear and tare in these areas. Completion of all actions will mean the company are in a strong position to effectively deal with any contaminated fire water in the event of an emergency. It is hoped to have all works completed by the end of Q2 2015.

5. Complaints Summary

All internal environmental complaints are documented through the Environmental Management System (EMS) procedures on the following documents:

• Environmental Complaints Form (BW-OPS-015)

Any environmental non-compliances are recorded and documented by the EPA via audits / site visits and are the responsibility of the Management Team to fix and ensure the appropriate corrective and preventive actions are put in place.

Internal audits are also carried out as part of our ISO 14001 certification and continual improvement plans. Internal audits are carried out by the Facility Manager who is qualified to conduct them. Results of these are recorded on:

• Environmental Non-Compliances Form (BW-OPS-016)

All results are on file and available for review via the Facility Manager.

All documented Complaint or Non Compliances are recorded and kept on file as part of the EMS System and a file maintained of all open and closed records.

Any complaints received by the EPA will be documented on the EDEN online management system and records of those will be kept on that system only.

Any complaints received will immediately be assigned to a member of the management team to find a solution / corrective action. They will be taken seriously and dealt with as a priority.

In relation to the 2014 AER we can confirm the following:-

- No official complaints of an Environmental nature were received directly by the company. One unofficial complaint was made due to odour in the compost facility and that issue is already in the process of being fixed as a result.
- The EPA received two official complaints in relation to our facility.

- The first EPA complaint was in relation to odour from the composting facility which as a company we accepted and met the Agency following the complaint and have agreed a programme for improvement with the Agency which is detail in section 4.3 of this report and will be addressed fully by the end of Q3 2015.
- The second EPA complaint was in relation to an allegation by someone that as a company we were involved in activities with companies dumping material at sea. We immediately informed the Agency that this was not the case and that all companies we use to process our end products and registered and monitored by the Dublin TFS Office. Following our explanation there has been no further issue in relation to this matter.

5.1 Environmental Incidents

Barna Recycling are responsible under the Agencies new guidance in relation to Environmental Incidents to notify the Agency immediately or any serious occurrence on site or the excedance of licence limits or pre-defined trigger levels as a result of environmental monitoring.

During this reporting period Barna Recycling had 1 notifiable incident which occurred in Q1 and was in relation to elevated readings of ammonia in surface water monitoring. The incident was notified to the Agency via the online Eden system. The trigger level activated was only just exceeded and there was no real cause for concern with the reading. We agreed with the Agency to retest in Q2 and fortunately there was no repeat on any other occasion in 2014.

There were no other notifiable incidents during 2014.

Barna Recycling have completed the EPA's published AER template in relation to summarising complaints and incidents and this is attached as Appendix A of this report.

6. Nuisance and Emission Controls

Nuisance inspections are carried out on a daily basis by the Facility Manager or a delegate. Results are logged and are available for review at all times. The purpose of these nuisance checks is to verify that there are no issues at the facility with regards to vermin, birds, flies, dust, housekeeping or odours.

In this reporting period we also added waste stockpiles as a check on the daily nuisance processes. This was done with a view to ensuring stock was reviewed on a daily basis to maintain a focus on moving material off site as soon as possible and not allowing any materials to accumulate in excessive quantities and if they did they immediately came into focus.

Odour checks are also carried out as an individual assessment using the Agencies own guidance and these factor in all of our nearest sensitive receptors both upwind and downwind of the facility namely domestic dwellings or commercial premises. The method used is a 5 minute sniff test as these pre-determined locations on two occasions per week. We feel that given we have a composting facility on site it is necessary to carry out these checks this frequently. Results for odour checks during 2014 did highlight an odour issue on site during certain periods. By no means was there a daily issue with odour at the facility this was very much an intermediate problem that presented itself on occasion throughout 2014. As a result of these checks and a discussion with the Agency a programme for improvement of odours has been agreed for 2015 and this is detailed in section 4.3 of this report.

The other parameters such as dust on site we had no issues to report. During periods of dry weather on site there can always be a level of dust on site but we have misting equipment installed internally and water dosing pumps on our approach roads to control dust levels as required. As a results dust monitoring reports highlighted no dust issues on site for 2014. Daily nuisance checks are always valuable to highlight the need for having pumps on / off during any period and these daily checks will continue.

Vermin, birds and flies are monitored internally on a daily basis and again no major issues were evident during this reporting period. Barna Recycling partner with Ecolab is relation to the management of all types of vermin, birds and flies and have active controls on site for rats and mice as well as flies. There has been no need to put controls in place in relation to birds on site as all sheds are covered and the nuisance of birds has never been an issue.

The main issue in relation to vermin at present is control of flies especially in relation to the composting facility in warm weather. After meeting Ecolab on site we decided the best approach was to implement a serious of fogging treatments which are designed to wipe of a complete life cycle of flies and a repeat of this every four weeks will keep them at bay. This was implemented in the middle of 2014 and has proved extremely successful in controlling the flies. A programme of treatments has already been agreed for 2015.

All Ecolab reports are on file and up to date to show their own monitoring results.

During this reporting period a significant effort was made on site to improve housekeeping which had been an ongoing issue on some parts of the site in recent years and had been highlighted regularly on nuisance check sheets. A team of staff were put together to tackle the housekeeping on an area by area basis and this was carried out in the first half of 2014 with very beneficial results. The facility now is in a much better condition in relation to old redundant plant and equipment and stock of old scrap items which were all removed from the site. Apart from general monitoring on a regular basis housekeeping on site generally is no longer an issue but will always be ongoing to ensure that current levels are maintained.

In summary the nuisance checks still play a valuable role in the day to day monitoring of our facility and they are carried out properly to ensure we get the full benefit from them. In general the site is running well and can be considered on the basis of the daily results not to be causing any major nuisance to our neighbours or the environment in which we operate.

7. Environmental Monitoring

The required monitoring programme at the Barna Recycling Facility is set out in Schedule E of the Waste Licence. The reporting frequencies of reporting environmental monitoring data are indicated in Schedule C and D. The following monitoring was carried out for the reporting period:

Surface & Foul Water Monitoring (Quarterly)

During 2014 reporting period sampling was carried out as follows:

- Surface & Foul Water Monitoring (carried out by Fitz Scientific) on the 21/03/2014
- Surface & Foul Water Monitoring (carried out by Fitz Scientific) on the 13/06/2014
- Surface & Foul Water Monitoring (carried out by Complete Lab Solutions) on the 08/09/2014
- Surface & Foul Water Monitoring (carried out by Complete Lab Solutions) on the 04/10/2014

Dust Monitoring (three times per year)

During 2014 reporting period sampling was carried out as follows:

• Dust Monitoring (carried out by Complete Lab Solutions in periods 15/08/2014 to 15/09/2014, 15/09/2014 to 13/10/2014 and 13/10/2014 to 13/11/2014. Dust pots were left on site and lids taken away by contractor for a period of approximately 30 days as required by our licence.

Noise Monitoring (annually)

During 2014 reporting period sampling was carried out as follows:

• Noise Monitoring (carried out by Complete Laboratory Solutions) on 17/10/2014

All monitoring was carried out as per the requirements of our EPA waste licence.

Complete Lab Solutions and Fitz Scientific were employed as part of the Environmental Management Team to carry out and report on all monitoring requirements for 2014. They both won this business through a tender selection process which is run to identify the best possible company to partner with in relation to environmental monitoring. We have on file all the relevant names and qualifications held by the people carrying out the testing on our behalf.

The tender process is coordinated by the Facility Manager and he makes the decision on the awarding of the contracts. Barna Recycling recognise the importance of appointing the best possible contractor to ensure the environmental monitoring programme is carried out on schedule using the proper equipment / methods and that the reports supplied for submission to the EPA are of a high standard.

7.1. Summary of Monitoring Results

Environmental monitoring results are sent to the Agency within 10 days of quarter end for water monitoring and as soon as results are available for both dust and noise monitoring. All results are now uploaded via the Agencies online EDEN system which allows for the notification of any incidents or general issues in relation to the monitoring results.

A summary of the monitoring results for the current reporting period of 2013 have been transferred into the Agencies own AER template for monitoring results for all parameters (water, dust and noise) and these are included in that format as appendix A of this report.

7.2. Compost Monitoring Results

The composting process has it's own requirements for monitoring on site and that involves emissions and as well as on the compost product itself. In relation to the compost product as already outlined in the report the following records are available on request in relation to our composting:

- E-Coli Test Results
- F-Coli Test Results
- Salmonella Test Results
- AT4 Test Results
- Trace Element (Compost Quality) Test Results

The above are all requirements we must carry out for either the EPA and / or Department of Agriculture. In addition to these we also carry out tests for the following:

- Nutrition Levels (NPK) on Compost
- PAH / PHP Levels

Any issues with monitoring results for compost must immediately be notified to the Agency and the Department and may result in a rejected batch of compost.

During this reporting period there were no such incidents and all compost batches passed all results.

These results have been checked during site audits by both the Agency and the Department.

Most importantly in relation to monitoring our internal results show that the scrubber system on site is adequately doing it's job. We use a Kitagawa monitoring system to measure the levels of Ammonia, Hydrogen Sulphide and Mercaptans from the system and none of the monitoring results for 2014 highlighted an exceedance of the limits specified in our EPA licence. Therefore from the results recorded it can be assumed that the scrubber system on site is performing it's duty adequately.

Barna Recycling will carry out bio-aerosol monitoring of it's processed per the Agencies new air monitoring guidance in the first half of 2014.

7.3. Bio Aerosol Air Monitoring

As part of the Agencies new air monitoring requirements Barna Recycling carried out Bio Aerosol monitoring during 2014 to meet these requirements.

This monitoring was carried out by Anua Environmental Consultants who are part of the Board Na Mona group on the 4th April 2014.

The results reported for bio aerosols highlighted no issues at the facility in relation to the emission of bio aerosols as a result of our activities and readings were normal. There were no actions highlighted within the report and no recommendations for improvement.

7.4. Monitoring Locations

A map of the monitoring locations at the site is attached as appendix D to this report as required by the Agency.

8.0. Foul Water Discharge

As required by schedule G of our EPA waste licence this section details the foul water emission levels for the current reporting period. Readings of foul water emissions are taken on a daily basis by the Facility Manager and results are logged and kept on file. Details of the volumes of surface water discharged during the reporting period are below.

Total wastewater discharged via FW1 for 2014 (approximately): 759,743 litres

These results are available for review on request and are recorded on a daily basis.

9. Resource and Energy Consumption Summary

The main resources consumed at the facility during the reporting period were electricity, diesel fuel and water. A summary of the significant resources consumed are tabulated below with a summary of the principal resource consumption.

Area of Use	Purpose	Principal Resource Consumed
Site Plant	Moving and processing of wastes and our fleet of on the road vehicles used for the collection and disposal of waste	Diesel, hydraulic oils
Site Operations	Road sweeper for maintenance of road surfaces and wash bay hose for washing bins, trucks	Water
Odour Controls	Used on an as required basis and pumped into the scrubbers within the compost building	Composting Scrubber System
Offices	Administration & Management of the facility usage of electricity for computers, phones etc	Electricity

Table 9.2: Usage of Energy and Resources, 1st January 2013 – 31st December 2014

Resource	Consumption for Reporting Period
Odour Control Chemicals	2012: Approximately 60litres
	2013: Approximately 4,500 litres
	2014: Approximately 5,200 litres
Electricity	2014: 2,204,366 (KW)
	2013: 1,874,775 (KW)
	2012: 1,695,879 (KW)
	2011: 1,590,165 (KW)
	2010: 1,327,372 (KW)
	2009: 1,392,552 (KW)
	2008: 1,304,972 (KW)
	2007: 817,982 (KW)
	2006: 71,689 (KW)
	2005: 117,174 (KW)
	2004: 120,900 (KW)
Diesel Fuel	1,261,660 (litres approx) including our
	fleet of on the road vehicles and on site
	plant / equipment
Hydraulic Oils	14,000 (litres approx)

10. Tank, Pipeline and Bund Testing and Inspection Report

The underground drainage pipeline and tank network was surveyed during reporting period (2011) as per the requirement of our licence

The report concluded that the site drainage and tanks were overall in a good condition and no immediate actions were necessary throughout the site. Some minor intrusions on pipelines were found but no cracks or leaks and they have recommended in the report a timeframe for the repair of the intrusions but as stated none were deemed as requiring action immediately. All actions are medium to long term and we will action as appropriate as recommended in the report.

Full copies of the report and DVD are on file and available from the Facility Manager on site.

A new survey will be carried out during 2015 on completion of the fire water retention works as the requirement within our licence is to assess this every 3 years and details will be included in next year's report.

Bund Test

During 2013 we did carry out a bund test on the one bund we have on site and there were no issues highlighted as a result of this inspection. A full copy of this report is also on file and available for review from the Facility Manager. No corrective actions were necessary.

11. Financial Provision for the Facility

Barna Recycling are required by our licence to have an up to date financial provision in place which covers the cost of emergency clean up in the event of an environmental incident or restoration and aftercare work as a result of the company closing.

Financial provision for the company is outlined in our Environmental Liabilities Risk Assessment report which was prepared by Tobin Consulting Engineers. As it currently stands at end March 2015 a new proposal for 2015 is currently with the Agency who are considering it for approval.

The current Financial Provision for the Facility is: €1,202,202.12 (2014 / 2015)

The proposed Financial Provision for the Facility is €1,559,382.90 (2015 / 2016)

This new bond calculation was done through the submission of a full ELRA document which was produced in line with the new EPA guidance of Financial Provisions. The full document is available on request from Barna Recycling but was approved and the new bond put in place as soon as it's approved by the Agency.

For the 2014 reporting period we have completed the Agencies own AER template in relation to summarising the ELRA and Financial Provision data and this is included as part of appendix A of this report.

12. Management Structure at the Facility

An up to date company organisation chart is included in the company EMS system and a current copy is attached to this report as an appendix as required by our licence.

The main changes since last year's report are the introduction of a new General Manager who sits in the organisation between the Managing Director and CEO and the main group of Departmental Managers. The executives of the company believe this is the best strategy to bring the company to the next level and achieve it's immediate and long term goals.

There have been some changes in major positions within the company namely in the Human Resources Position, the Transport Manager Position, IT Manager Position, Health & Safety Manager position and Financial Controller position all of whom are still in place but are different personnel than in the previous years report.

In relation to the Agencies main point of contact the Facility Manager remains unchanged.

The Management Structure is outlined fully in Appendix E of the Report.

Any major changes in the Management Structure at the site will be advised to the agency immediately.

13. Public Information / Site Visits

All official records kept by Barna Recycling under the terms of our EPA licence or in relation to any of our activities from either the collection service or at the transfer station are available to any member of the public on request from our offices.

The Facility Manager is the contact person for any requests for information in relation to company records. Campbell Finnie is the current Facility Manager and can be contacted on 091-745040.

All reasonable requests by the public or any other interested party for information will be answered as a priority.

Barna Recycling also operate an 'open door policy' in relation to our site and all customers, partners, members of the public or any interested party are welcome to visit our facility by arrangement to tour the facilities, carry out inspections or get answers to any issues they may have in relation to our operations / activities. This is available to small groups and adults only.

14. Environmental Management Plan & Targets / Objectives

The setting of targets and objectives for the company is very important. Not only is it a requirement of our licence but it ensures the site and the company are always working towards continuous improvement in all areas of the business. The targets set should be ideally out with the scope of our licence.

The company recognise it is not only important to set these targets but to ensure during the reporting period it successfully works towards achieving the targets. As a result we produce a new Schedule of Targets and Objectives as part of our overall EMP and this is issued and re-defined on an annual basis to include both new targets which are relevant and also update on the success or otherwise of achieving the targets set for the previous reporting period.

It is the purpose of the Environmental Management Plan (EMP) to set out the procedures necessary to meet the licence conditions. Specifically, the EMP is designed to:

1) Detail the methods by which the objectives and targets will be achieved in the coming year and the designation of responsibility for targets

2) Any other items required by written guidance issued by the agency

Barna Recycling have produced a new EMP for 2015 which is a combined document along with our Schedule of Targets and Objectives. These updates are being submitted to the EPA alongside this Annual Environmental Report. The EMP details clearly the progress Barna Recycling has made in all areas during this reporting period and outlines the major tasks ahead during the new reporting period.

For full details of the EMP and Schedule of Targets & Objectives refer to appendix C.

A summarised version is also included in the EPA's own Excel format template as part of appendix A.

15. AER / PRTR Emissions Data for 2014

The EPA requires Barna Recycling to complete an annual return called an AER / PRTR Emissions Data report where we declare both emissions data from our facility for the reporting period and declare tonnages of waste received at our facility. The tonnage data is already included in full in section two of this report.

This report is to be included in the company's full AER for the reporting period starting from 2008 onwards and therefore a full copy of the 2014 AER / PRTR Emissions Report Database is included in this report as appendix B.

16. Full PDF AER

The EPA's new reporting requirements introduced for 2008 have been designed to ensure public access to information is improved and therefore a full copy of this AER in PDF format will be updated to the Agency website as soon as the full report including the AER / PRTR is included which will be before end March 2015 as required by the Agency.

Access to the PDF version of the full report will then be available via the EPA website or on request directly to Barna Recycling.

Final Comments

This year's Annual Environmental Report has been compiled in very similar format as previous years to keep it consistent and we have also integrated the Agencies new Excel templates which although not mandatory for this year we found useful help compile the data.

All figures and updates quoted are specifically for the 2014 reporting period unless otherwise stated in the particular section of the report. All information listed in schedule G of our EPA Waste Licence WL106-2 has been included somewhere in this report.

The intention of this report is to give the reader a detailed outline of the activities carried out by Barna Recycling during 2014 in all areas of the business. We believe the report in its current format achieves this successfully. However Barna Recycling welcomes constructive feedback on this report from any source and will endeavour to make any changes requested by customers, the Agency or members of the public in order to improve the reports for future submissions.

Updates on any of Barna Recycling activities are available at anytime during the year from our main offices in Carrowbrowne. Contact should be made with the Facility Manager.

A full copy of this report will also be made available on request to any person who requests it and as stated above will be made available in full in a downloadable format from the Agency website before end of March 2015.

Appendices

The following documents have been specifically requested by the Agency to be included in the Annual Environmental Report and are attached to this document and form part of the final report:

Appendix A:	AER Summary Report in EPA's own Excel Format (this includes results and information in relation to Air, Water, Bunds, ELRA, EMP. Noise, Resource / Energy, Complaints / Incidents and Waste Quantities)
Appendix B:	AER / PRTR Workbook for 2014
Appendix C:	EMP & Schedule of Targets and Objectives 2015
Appendix D:	Map of site monitoring locations
Appendix E:	Current Company Management Structure

Next Submission

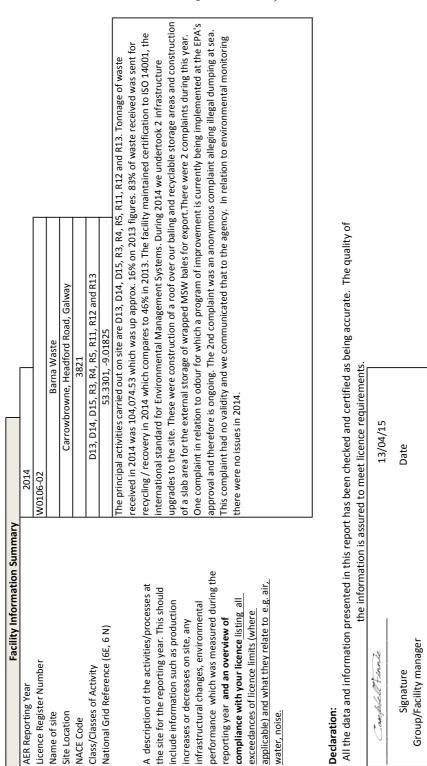
The next submission of this report is due on 31st March 2016.

Contacts

Any issues, questions or requests for additional information with regards to this report can be requested from Campbell Finnie (Facility Manager).

Appendix A:

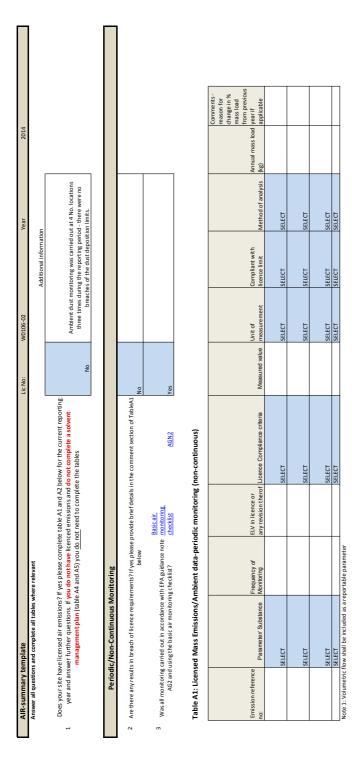
AER Summary Report in EPA's own Excel Format (this includes results and information in relation to Air, Water, Bunds, ELRA, EMP. Noise, Resource / Energy, Complaints / Incidents and Waste Quantities)



Barna Recycling – Annual Environmental Report for 2013 Reporting Period Page 89 of 138

(or nominated, suitably qualified and

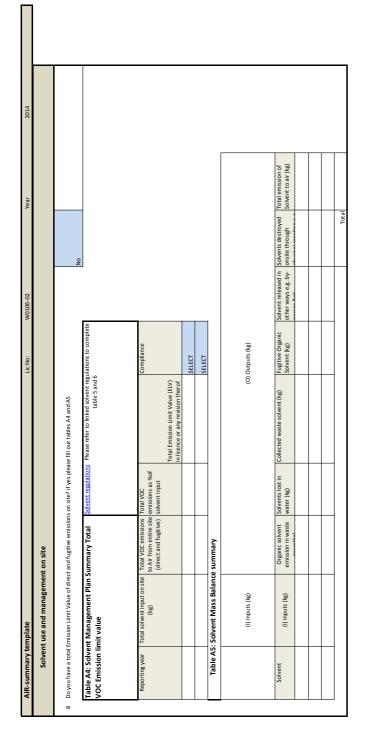
experienced deputy)



AlR-summary template	template				Lic No:	W0106-02	Year	2014		
	Continuous Monitoring	Aonitoring								
4 Does your site carr	Does your site carry out continuous air emissions monitoring?	ns monitoring?			No					
If yes please revie	ew your continuous monitorir rel	oring data and report the required fi relevant Emission Limit Value (ELV)	equired fields below lue (ELV)	If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Umit Value (EUV)						
5 Did continuous mo	Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	ce downtime? If yes plea	ase record downtime	e in table A2 below	SELECT					
6 Do you have a proa	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	each piece of continuous	: monitoring equipm	ent?	SELECT					
7 Did yo	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	ment system bypasses? I	f yes please detail th	iem in table A3 below	SELECT					
Table A2: Sum	Table A2: Summary of average emissions -continuous monitoring	ions -continuous m	onitoring					_		
Emission reference	Emission reference Parameter/ Substance		Averaging Period	Averaging Period Compliance Criteria	Units of	Annual Emission Annual maximum	Monitoring	Number of ELV Comments	Comments	
:ou					measurement			exceedences in		
		ELV in licence or any revision therof					downtime (hours)	current reporting year		
	SELECT			SELECT	SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
note 1: Volumetric	note 1: Volumetric flow shall be included as a reportable parameter.	portable parameter.								
Table A3: Abat	Table A3: Abatement system bypass reporting table	reporting table		Bypass protocol						
Date*	Duration** (hours)	Location	Re	Reason for bypass		Impact magnitude	Corrective action	action		

this should include all dates that an abatement system bypass occurred

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



m

AER Monitor	AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)	plate-WATER/WASTE	WATER(SEWER)			Lic No:	W0106-02		Year	2014	
Does your s 1 reporting yea	site have licensed emissions d ar and answer further questio	lirect to surface water or c ons. If <mark>you do not have</mark> lice analysis a	direct to sewer? If y enced emissions you and visual inspection	Does yoursite have licensed emissions direct to surface water or direct to sever 7 Myes please complete table VQ2 and VQ2 look for the current reporting year and answer further questions. If you doed have foreneed emissions you up. Reed to complete table VQ1 and or VQ1 for short water analysis and values.	Vec	There is 1 No. SW dis downstream of the	Additional Information Matterial Information There is 1 No. Stat Additional Information Additional Information Generations of the distribute goods. Stat and 3 No. other Stat Information Generations of the distribute goods. Three at 1 No. Stat Information Generations of the distribute goods. Three at 1 No.	- upstream and SW2 -			
2 Was it a requi	irement of your licence to carr complete table W2 be	ry out visual inspections o elow summarising <u>only an</u>	on any surface wate iy evidence of conta	Was it a requirement of your leance to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W.D. below summarising <u>priv</u> any evidence of contamination noted during visual inspections	Yes	Visual checks of the st dead plants, dead	foual checks of the stream are carried out on a daily basis to check for visual evidence of contamination dead plants, dead fish etc and there visual tecks also showed no sign of any contamination in the stream water.	nce of contamination, intamination in the			
	Table W1 Storm water monitoring	onitoring									
Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments	
SW1	upstream		Fats. Oils and Grease		N/A	N/A	4	meA	Ves		
SW1	upstream		BOD		N/A	N/A	<2	mg/L	yes		
SW1	upstream		Suspended Solids		N/N	N/A	8	mg/L	yes		
IMS	upstream		Ammonia (as N)	14/04/14	N/N	N/N	1.11	mg/L	Yes		
1 MS	upstream		hd		N/A	N/A	2.2	pH units	yes		
SW1	upstream		Fats, Oils and Grease		N/A	N/A	4	mg/L	yes		
INS	upstream		BOD		N/N	N/A	2 5	mg/L	yes		
TMS	upstream		Suspended Solids Ammonia (as N)	16/07/14	N/N	N/A	<2 0.15	mg/L	yes vec		
SW1	upstream		Mineral oils		N/A	N/A	31.95	-ver-	ves		
SW1	upstream		Hd		N/A	N/A	8.7	pH units	yes		
SW1	upstream		Fats, Oils and Grease		N/A	N/A	\$	mg/L	yes		
SW1	upstream		BOD		N/A	N/A	4	mg/L	yes		
SW1	upstream		Suspended Solids	02/10/14	N/A	N/A	10	mg/L	yes		
1 MS	upstream		Mineral oils		V/N	N/A	120	118/1	yex Vex		
5W1	upstream		Hd		N/A	N/A	7.6	pH units	ve:		
SW1	upstream		Fats, Oils and Grease		N/A	N/A	<5	mg/L	yes		
SW1	upstream		BOD		N/A	N/A	4	mg/L	yes		
SW1	upstream		Suspended Solids	10/12/14	N/N	N/A	4	mg/L	yes		
TMC	upstream		Minoral olic		V/N	N/N	142	1/8/L	yes vec		
SW1	upstream		Ha		N/A	N/A	7.5	pH units	ves		
SW2	downstream		Fats, Oils and Grease		N/A	N/A	<1	mg/L	yes		
SW2	downstream		BOD		N/A	N/A	2	mg/L	yes		
SW2	downstream		Suspended Solids	14/04/14	N/N	N/A	2	mg/L	yes		
SW2	downstream		Mineral oils		N/A	N/A	<25		Vex		
SW2	downstream		Hd		N/A	N/A	7.4	pH units	yes		
SW2	downstream		Fats, Oils and Grease		N/A	N/A	<1	mg/L	yes		
SW2	downstream		BOD		N/A	N/A	-2	mg/L	yes		
SW2	downstream		Suspended Solids		N/N	N/A	2	mg/L	yes		
2/02	downstream		Ammonia (as N)		N/N	N/A	0.13	mg/L	yes		
SW2	downstream		Ha		V/N	N/A	87	DH units	Ves		
SW2	downstream		Fats, Oils and Grease		N/A	N/A	<5	mg/L	yes		
SW2	downstream		BOD		N/A	N/A	4	mg/L	yes		
SW2	downstream		Suspended Solids		N/A	N/A	4	mg/L	yes		
SW2	downstream		Ammonia (as N)		N/A	N/A	0.239	_√Bm	yes		
2/02	downstream		Mineral oils		N/A	N/N	118 7.6	µg/L ottite	Yes		
SW2	downstream		Fats. Oils and Grease	10/12/14	N/A	N/A	\$	mg/L	ves		
SW2	downstream		BOD		N/A	N/A	4	mg/L	yes		
SW2	downstream		Suspended Solids		N/A	N/A	9	mg/L	yes		
SW2	downstream		Ammonia (as N)	10/12/14	N/A	N/A	0.241	_√gm	yes		
5W2	downstream		MITTER OID		A/N	V/N	7.3	DH units	yes		
SD1	onsite		Fats. Oils and Grease		N/A	N/A	-	me/L	ve:		
SD1	onsite		BOD	14/04/14	N/A	N/A	2	mg/L	yes		
SD1	onsite		Suspended Solids		N/A	N/A	2	mg/L	yes		
SD1	onsite		Ammonia (as N)		N/A	N/A	1.12	mg/L	yes		
201	onsite		Mineral oils		N/N	N/A	2.5	mg/L	yes 		
105	Onsite		Fats. Oils and Grease		e/N	V/N	× ≏	me/l	Vec		
SD1	onsite		BOD		N/A	N/A	. 4	mg/L	ves		
SD1	onsite		Suspended Solids		N/A	N/A	2	mg/L	yes		
SD1	onsite		Ammonia (as N)		N/A	N/A	0.033	mg/L	yes		
SD1	onsite		Mineral oils		N/A	N/A	32.61	mg/L	yes		
501 201	onsite		Hd		N/N	N/A	8.5	pH units	yes		
105	onsite		Fats, Oils and Grease		N/N	N/N	> 7	mg/L	Yes		
SDI	onsite		Suspended Solids		e/N	N/A	ō	me/L	ABX VBX		
SD1	onsite		Ammonia (as N)		N/A	N/A	0.236	mg/L	yes		
SD1	onsite		Mineral oils		N/A	N/A	151	1/81	yes		
SDI	onsite		Hd	02/10/14	N/A	N/A	7.8	pH units	yes		
201	onsite		Fats, Oils and Grease		N/A	N/A	Þ	mg/L	yes		

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	105	B recurts summary term onsite onsite onsite onsite	<u> </u>	WATER(SEWER) BDD Suspended Solids Ammonia (as N) Mineral oils pH	04/12/14 04/12/14 04/12/14 04/12/14 04/12/14	N/A N/A N/A N/A N/A	Lic No: N/A N/A N/A N/A	w0.106.02	mg/L mg/L µg/L pH units	Year yes yes yes	2014					
Image: intermediate interm	C trigger values may Location	r be agreed by the Agency ou T	side of licence conditions able W2 Visual inspect	tions-Please only	y enter details where contamination was observed.											
International control of the contro		Date of inspection			Description of contamination		Source of contamination SELECT	Corrective action		Comr	ents					
and whether a production of the pro	Licensed Emissi	ons to water and /or v	vastewater (sewer)-pe	riodic monitorin	sg (non-continuous)		SELECT									
The state of	» mn	as there any result in breach u	of licence requirements? If y	es please provide brik	ief details in the comment section of Table V/3 below	No		Additional information								
Image: control in the production of	Was all monito. Was all monito. The cki sts for Qual no please detail w	ring car ried out in accordance lity of Aqueous Monitoring Da tat areas require improvemen hov	with EPA guidance and ta Reported to the EPA? If it in additional information	bternal /intern ahOuality chee		Yar										
Image: contract in the	Table W3: Licer	1sed Emissions to wate	r and /or wastewater	(sewer)-periodic	c monitoring (non-continuous)	69.1										
101 consisting consisting constraint constraint <td></td> <td>mitcion rolos col to</td> <td>Parameter/SubstanceNote</td> <td></td> <td>Free arriver of membering</td> <td>Averacing particle</td> <td>ELV or trigger values in licence or any revision the ref^{rice 2}</td> <td>Licence Comeliance citeria</td> <td>enter Measured value</td> <td>Init of massurement</td> <td></td> <td>de thord of an also is</td> <td></td> <td></td> <td>nnual mass load</td> <td>stiments</td>		mitcion rolos col to	Parameter/SubstanceNote		Free arriver of membering	Averacing particle	ELV or trigger values in licence or any revision the ref ^{rice 2}	Licence Comeliance citeria	enter Measured value	Init of massurement		de thord of an also is			nnual mass load	stiments
Noticity Other		Wastewater/Sewer	Fats, Oils and Greases	discrete	Quarterly - Results are an average of the 4 samples	0.0	100	All results < 1.2 x ELV	3	mg/L	yes	Other (please describe)				ISO 17025 - Standard Methods for t
		Wastewater/Sewer Wastewater/Sewer	COD	discrete	Quarterly - Results are an average of the 4 samples Outstrock - Results are an average of the 4 samples		350	All results < 1.2 x ELV All results < 1.2 x ELV	18 2.5	mg/L me/l	yes	Other (please describe) Other (please describe)	50 FSO	17025		ISO 17025 - Based on USEPA approv ISO 17025 - Standard Methods for t
www.unimation word		Wastewater/Sever	Suspended Solids	discrete	Quarterly - Results are an average of the 4 samples		400	All results < 1.2 x ELV	13.25	mg/L	94 344	Other (please describe)	50 ISO	17025		ISO 17025 - Standard Methods for t
	1	Wastewater/Sewer	Ammonia (as N)	discrete	Quarterly - Results are an average of the 4 samples		N/A	All results < 1.2 x ELV	1.69025	mg/L	savi	Other (please describe)	ßÖ	17025		Salicylate method based on Method
Image:	EWI R	Wastewater/Sewer Wastewater/Sewer	Sulphate volumetric flow	discrete composite	Quarterly - Results are an average of the 4 samples Continuous		400	All results < 1.2 x ELV No flow value shall exceed the specific limit.	5.905 2.0815	mg/L m3/day	yes yes	Other (please describe) Other (please describe)	80	17025		Based on Sulphate in Wate Flow meter
Cite Data de Londer Cite Data de Londer Cite Data de Londer Alfred IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII																
Image:	문론	flow shall be included as a re- sion Limit Values (ELV) do no	oortable parameter apply to your licence please	e compare results aga	1 <u>b</u>											
des of a cut or cut contant or low of cut	Continuous mo	nitoring						Additional Information								
Optimization of the product of the bound of the product of the bound of the product of the prod	Does your site carr	y out continuous emissions to	water/sewer monitoring?			Yes		Volumetric Flow only								
Optimization contracting explorement of the plane medication table. Modeling the parameter explorement of the plane medication table. Modeling the parameter explorement of the plane medication table. Modeling the plane medication table explorement on table demonstration to the plane medication table. The plane medication table medication table medication table medication table. The plane medication table medication table medication table medication table. The plane medication table medication table medication table medication table. The plane medication table medication table medication table medication table. The plane medication table medication table. The plane medication table medication table medication table medication table. The plane medication table medication table medication table medication table medication table medication table. The plane medication table medication table medication table medication table. The medication table medication table medication table medication table. The medication table medication table medication table. The medication table medication table medication table medication table medication table. The medication table medication table medication table medication table medication table medication table medication table. The medication table medication table. The medication table medica	If yes please sumn	sarise your continuous monit	oring data below in Table V	V4 and compare it to	o it's relevant Emission Limit Value (ELV)											
Optione to particle execution (and in partine execution (and in particle execution (and in particl	5 Did continuous mor	nitoring equipment experienc	e downtime? If yes please ru	scord downtime in ta	able W4 below	No										
Image: Include the conditional for sport of units of a point	Do you have a proa	ctive service contract for ead	piece of continuous monito	oring equipment on si	site ?	Yes										
Tenden Tenden Schwart	Fuld abatement syst	tem bypass occur during the n mary of average emissi	sporting year? If yes please (ons -continuous moni	complete table W5 b toring	below	No										
Mode Answerstanding Answerstanding <td>Emission</td> <td></td> <td></td> <td>ELV or trigger values in licence or any</td> <td></td> <td>Compliance</td> <td></td> <td></td> <td></td> <td></td> <td>Number of ELV exceedences in</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Emission			ELV or trigger values in licence or any		Compliance					Number of ELV exceedences in					
Bit Bit Bit 91(57 91(57 91(57 91(57 91(57 1: Voluments 91(57 91(57 91(57 91(57 1: Voluments 91(57 91(57 91(57 91(57 1: Voluments 1: Point 91(57 91(57 91(57 91(57 1: Voluments 1: Point 91(57 91(57 91(57 91(57 91(57 1: Voluments 1: Point 1: Point 91(57 91(57 91(57 91(57 91(57		Emission released to Wastewater/Sewer		revision thereof	2	Criteria No flow value shall exceed the specific	neas	Annual Emession for current reporting year (kg) 759743			reporting year 0		comments			
T volumenter four and he included as a reportable parameter.	P,	SELECT	SELECT		SELECT	limit. SELECT										
e W.S. Atatementersystem oppass reporting able e W.S. Atatementersystem oppass reporting able [burnion (houn)] [contion] [contion] [contion] [based for bipass [contion] [contint] [contion] [contion] [contint] [contint] [contion] [contion] [co	hote 1: Volumetric	flow shall be included as a rej	iortable parameter.													
Butch	Date VS: ADa	tement system bypass Duration (hours)		Resultant emissions	Reacon for bypass	Corrective action*	Was a report submitted to the EPA?	When was this report submitted?								
							SELECT									

ation of Voter and Waterwater, 21ed, 2006 Annual Annual State (2006) ation of Voter and Waterwater, 21ed, 2006 ation of Voter and Waterwater, 21ed, 2006 Annual Annual Annual Annual Annual Annual Annual Annual Annual State State (21eg), Annual A

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Bund/Containment Bund/Containment structure (D - paretrearier strating ber 15 88007/EPA Guidaner 15 88007/EPA Guidaner 15 Are channels/frander s	Table B1: Summary detable of found (containing fearly(Containinent fiberof(Containinent fiberof(Containinent fiberof Containine the statistic fiberof	Take Bt: Summary details of land (containment structure in egity) test Early Containment Page Bt: Summary details of land (containment structure in egity) Product containment Early Containment Npp Specify Other type Product containment Early Containment Npp Specify Other type Product containment Early Containment Name Specify Other type Product containment Early Containment Statistic Statistic Product containment Factor Containment Statistic Statistic Product containment Factor Containment Statistic Statistic Product containment Factor Containment Statistic Statistic Product containment	9011/1 test Product containment all structures tested in line with	Actual capacity burdeng and strenge publicities	jbs: fty required.	Type of integrity test SELECT Ves Ves Ves	Officer text types Commentary	Test date	imegrity reports manafand on site? Siller Siller		ningent jest liakre oplanation 50 words	Surverine etion talen in Sult of Sult	R R Cheduled date n n n	Results of Result in retestiff in current reporting year)
Pipeline/unders Are you required by yo 1 structures and pipeline 2 Please provide integrity *please note integrity T	Pipeline/Inderground structure testing Are you required by your licence to undertake integ 1 structures and populates are which fulled the full bases provide integrity it sating frequency pendia bases provide integrity i sating mean white tightnes "please note integrity i sating mean white tightnes	Popular Junderg nand structure testing Are van engine fah ywar freeken binderstate inteller, 'no underg nand structure es g, pipelines or winne et 7.1 free pleine fill on 11 bil Are van engine fah ywar freeken binderstate inteller en engine and underge nand structure es g, pipelines or winne ghe tes proto ar specified are structures and protocol integrity testing the integrity test and all which have and been tested while gh test integrity testing 2. Bees a provide integrity testing finances period. 2. Bees a provide integrity testing finances are find for general found polities (ar meuted under your filosov). 3. Bee a provide integrity testing frankes structure is a grant of an application of the structure is an application of the structure is a structure and testing to structure is a structure and testing to structure is a structure and enginy testing and testing to structure is a structure and enginy testing to structure is a structure and enginy testing and testing testing and testing testing and testing testing and testing and testing testing and testing testing and testing testing and te	tures e.g. pipelines or sumps etc. been tested withing the integrity nes (as required under your licen regrity test	11/1%s please fill out table 2 below listing all und or yound r test period as specified test	below listing all underground	Yes 3 years								
Structure ID	Type system StiteCT	Material of construction: SILECT	Dees this structure have Secondary containment? SELECT	Type of secondary containment SELECT	Type integrity testing SELECT	Integrity reports maintained on site?	Results of rest SELECT	Integrity test failure explanation <50 C t t	Corrective action Sci taken	Scheduled date for Rec	Scheduled date for Reutin of result in current retest			
		Please use con	Please use commentary for additional details r	not answered by tables/ questions above	tions a hove				-					

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	Please provide an interpretation of groundwater monitoring data in the	interpretation box below or if you require additional space please include a	groundwater/contaminated land monitoring results interpretaion as an additional section in this AER													Please enter interpretation of data here
Comments	ОО	ou	no				SELECT	SEL ECT		SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT
	$_{\rm 1}$ Are you required to carry out groundwater monitoring as part of your licence requirements?	Are you required to carry out soil monitoring as part of your licence requirements?	3 Do you extract groundwater for use on site? If yes please specify use in comment section	Do monitoring results show that groundwater generic assessment	criteria such as GTVs or IGVs are exceeded or is there an upward 4 trend in results for a substance of twes plases complete the	cell G8)	and submit separately through ALDER as a licensee return AND Groundwater answer questions 5-12 below. Below.	5 Is the contamination related to onerations at the facility faither current and for historic)	6 Have actions been taken to address contamination issues?If yes please summarise	remediation strategies proposed/undertaken for the site	7 Please specify the proposed time frame for the remediation strategy	8 Is there a licence condition to carry out/update ELRA for the site?	9 Has any type of risk assesment been carried out for the site?	10 Has a Conceptual Site Model been developed for the site?	11 Have potential receptors been identified on and off site?	12 Is there evidence that contamination is migrating offsite?

Table 1: Upgradient Groundwater monitoring results

					-					Upward trend in
										pollutant
										concentration over
Date of	Date of Sample location Parame	Parameter/		Monitoring	Maximum	Average				last 5 years of
sampling	g reference	Substance	Methodology	frequency	Concentration++	Concentration+ unit	unit	GTV's*	SELECT**	monitoring data
							SELECT			SELECT
							SELECT			SELECT
.+ where a	+ where average indicates arithmetic mean	arithmetic mean						r 7		
.++ maxin	num concentration	indicates the m	aximum measure	++ maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year	all monitoring results	s produced during th	ie reporting year			
Table 2:	Table 2: Downgradient Groun	it Groundwa	ndwater monitoring results	g results						

Upward trend in	yearly average	pollutant	concentration over	last 5 years of	monitoring data	SELECT	SELECT
					SELECT**		
					GTV's*		
					unit	SELECT	SELECT
				Average	Concentration		
				Maximum	Concentration		
				Monitoring	frequency		
					Methodology frequency		
				Parameter/	Substance		
				Date of Sample location	reference		
				Date of	sampling		

rriteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend

note exceedance of

In results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the oundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the

Groundwater monitoring template

2014

Year

W0106-02

Lic No:

Groundwater/Soil monitoring template

	Lic No:	W0106-02	Year	2014		
More information on the use of soil and groundwater standards/generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31)	Guida	Guidance on the Managenent of Contaminated Land and Groundwater at EPA Litensed Sites (EPA 2013)	oundwater at EF	A Licensed Sites (Ef	PA 2013).	
**Depending on location of the site and proximity to other sensitive receptors alternative Receptor based ** Depending on location of the site and proximity to other sensitive receptors alternative Receptor based GTV e.g. if the site is close to surface water compare to Surface Water Environmenta Quality Standards (SV results to the Drinking Water Standards (DWS)	tive Receptor base uality Standards (S) er Standards (DWS	imity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the mpare to Surface Water Environmental Quality Standards (SVVEQS), If the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS)	: <u>Surface</u> water EQS	Groundwater Drinking water Fegulations (private supply) GTV's standards	<u>Drinking water</u> (private supply) <u>standards</u>	Drinking water (public. supply) standards

Ground	Groundwater/Soil monitoring template	nitoring tem	plate		Lic No:	W0106-02		Year	2014
Table 3:	Table 3: Soil results								
Date of sampling	Date of Sample location Parameter/ ampling reference Substance	Parameter/ Substance	Monitoring Methodology frequency	Monitoring frequency	Maximum Concentration	Average Concentration	unit		
							SELECT		
							SELECT		
								1	

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

ck here			
	Click here to access EPA guidance on Environmental Liabilities and Financial provision		Commentary
	ELRA initial agreement status		
		Submitted and not agreed by EPA;	
	ELRA review status	Review required and not completed;	
Ar	Amount of Financial Provision cover required as determined by the latest ELRA	£1,559,382.90	This is the total for both Closure €693,495 and Unknown lia bilities ELRA €865,887.90
	Financial Provision for ELRA status	Submitted and not agreed by EPA;	
	Financial Provision for ELRA - amount of cover	€865,887.90	This is the total unknown liabilities - ELRA
	Financial Provision for ELRA - type	bond	
	Financial provision for ELRA expiry date	01/01/16	
	Closure plan initial agreement status	Closure plan submitted and not agreed by EPA	
	Closure plan review status	Review required and not completed	
	Financial Provision for Closure status	Submitted and not agreed by EPA;	
	Financial Provision for Closure - amount of cover	€693,495.00	Amount for Closure Plan only
	Financial Provision for Closure - type	pond	
	Financial provision for Closure expiry date	01/01/16	

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014

Year

En	wironmental Management Programme/Continuous Improvement Programme temp	late	Lic No:	W0106-02	Year	2014
	Highlighted cells contain dropdown menu click to view		Additional Information		_	
1 D	io you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	ISO 14001 accredited EMS. A full objectives and targets is being su	report on the progress of the companys bmitted separately.		
2	Does the EMS reference the most significant environmental aspects and associated impacts on site	Yes	and safety issues and any other r Condition 2.3.2.2 of our Waste Li	cover operational, environmental, health		
Do 3	es the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	timescale for achieving the sched of the people responsible for imp	lule of targets and objectives and the name alementing these actions.		
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility: as required by the licence	Yes	Yes, this part of our ISO 14001 EM	WS system.		

Environmental Management Programme (EP Objective Category	AP) report				
Objective Category	Target Implement management	Status (% completed)	How target was progressed The Quality and Health & Safety	Responsibility	Intermediate outcomes
	systems and get certification		Management Systems have		
	to ISO 9001 and ISO 18001		been devised and are currently		
	standards		awaiting pre-audit by the NQA. Pre-audit scheduled for May		
			Pre-audit scheduled for May 2015.		
Additional improvements	EMS system – ensure current	Ongoing	Company successfully retained	Section Head	
	ISO 14001 accreditation is		14001 creditation during this		
	maintained and the system		year		
	further developed in 2014				
Additional improvements		Complete		Section Head	
Abditional improvements	Attain full Agency and TFS	Compiete	The company successfully	Section Head	
	approval for the baling,		submitted a proposal to the		
	wrapping and export of MSW material for recovery as		Agency which was approved and has made several		
	opposed to disposal in Ireland		successful TFS shipments from		
			this process during 2014		
Waste reduction/Raw material usage efficiency		Complete	During 2014 a new Optical	Section Head	
	Fully redevelop and reconstruct the facility		During 2014 a new Optical Sorting line was installed which		
	picking station to make it		has enhanced throughput levels on the picking line. This new		
	more modern, add additional		on the picking line. This new		
	throughput and reduce overall operating costs of the		line was part of the companies ongoing investment in the		
	sorting process		picking line.		
Additional improvements	Devise plan and tonnage	Complete	The company achieved	Section Head	
	model to ensure the		significant growth in compost		
	composting facility is capable		last year going from 10,000 tonnes to 14,500 tonnes		
	of accepting and processing 20,000 tonnes of material per		throughput and plan further		
	annum running at it's full		growth during 2015 to reach		
	capacity / potential		close to maximum capacity		
Waste reduction/Raw material usage efficiency	Implement a fully approved	Ongoing	Details of the MBT proposal	Section Head	
	and licenced MBT process		have been fully submitted to		
	which meets the conditions		the Agency and have been		
	of the EPA and is approved as part of the current licence		discussed in detail with them. Barna Waste have committed		
	part of the current incence		to completing an odour		
			Improvement programme in		
			the composting plant and on completion the Agency will		
			approve plans for the MBT		
			process. This is planned for		
			completion by end of Q2 2015.		
Waste reduction/Raw material usage efficiency		ongoing		Section Head	
waste reduction waw material usage enciency	Develop the area adjacent to	ongoing	This process was approved by	Section Head	
	the site civic amenity area		the Agency following a		
	into a storage area for the baled and wrapped MSW to		successful written submission and is now being used to store		
	reduce the fire risk of inside		bales in an outside storage		
	storage. Construction must be carried as per EPA		location.		
	approval when granted.				
Additional improvements	Roll out twin pack collection	Complete	Excellent progress was made on	Section Head	
	vehicles in all areas to reduce		this during 2014. The company		
	carbon footprint and increase		now has up to 8 twin pack		
	the efficiency of the		vehicles out for collection each		
	collection phase of our operation		day and will develop this up to 12 by the end of 2015 with		
			continued investment.		
Materials Handling/Storage/Bunding	Increase pay by weight	ongoing	The company have	Individual	
	capability across all fleet and		The company have implemented pay by weight		
	implement a system that		options in most areas where it		
	offers capability to run from the 'back of truck' through to		is applicable during 2014 and have a fleet in place equipped		
	the 'back of truck' through to 'invoicing'		to handle pay by weight		
	Ŭ		customers with weighing		
			equipment on the vehicles.		
Materials Handling/Storage/Bunding		Complete		Section Head	
maxemata manufing/scorage/sumung	Route optimisation -	complete	The company implement a	and the second second	
	continue to review all		Special Project in 2014 to		
	commercial and domestic collection routes to ensure		review it's route optimization. A template has been defined to		
	maximum potential is		monitor all routes and this will		
			be rolled out fully during 2015.		
	achieved from all routes		de roned out runy during 2013.		
			the rolled out raily during 2013.		
Materials Handling/Storage/Bundling	achieved from all routes	ongoing		Section Head	
Materials Handling/Storage/Bunding	achieved from all routes	ongoing	This top 100 list was produced	Section Head	
Materials Handling/Storage/Bunding	achieved from all routes	ongoing	This top 100 list was produced and contact has been made	Section Head	
Materials Handling/Storage/Bundling	achieved from all routes Develop a list of Top 100 companies in Connacht in terms of revenue and implement a process to	ongoing	This top 100 list was produced and contact has been made with all companies with a varvine dearee of success. The	Section Head	
Materials Handling/Storage/Bundling	achieved from all routes Develop a list of Top 100 companies in Connacht in terms of revenue and implement a process to establish contact with all 100	ongoing	This top 100 list was produced and contact has been made with all companies with a varying degree of success. The list is reviewed quarterly to	Section Head	
Materials Handling/Storage/Bunding	achieved from all routes Develop a list of Top 100 companies in Connacht in terms of revenue and implement a process to	ongoing	This top 100 list was produced and contact has been made with all companies with a varying degree of success. The list is reviewed quarterly to ensure regular contact is kept with these key customers or	Section Head	
Materials Handling/Storage/Bundleg	achieved from all routes Develop a list of Top 100 companies in Connacht in terms of revenue and implement a process to establish contact with all 100 in relation to waste /	ongoing	This top 100 list was produced and contact has been made with all companies with a varying degree of success. The list is reviewed quarterly to ensure regular contact is kept	Section Head	
Materials Handling/Storage/Bunding	achieved from all routes Develop a list of Top 100 companies in Connacht in terms of revenue and implement a process to establish contact with all 100 in relation to waste /	ongoing	This top 100 list was produced and contact has been made with all companies with a varying degree of success. The list is reviewed quarterly to ensure regular contact is kept with these key customers or	Section Head	
Materials Handling/Storage/Bunding	achieved from all routes Develop a list of Top 100 companies in Connacht in terms of revenue and implement a process to establish contact with all 100 in relation to waste /	ongoing	This top 100 list was produced and contact has been made with all companies with a varying degree of success. The list is reviewed quarterly to ensure regular contact is kept with these key customers or	Section Head	

nvironmental Management Program		ment Programme temp	late A new traffic management plan	Lic No:	W0106-02
	Traffic Management – review the traffic management plan		A new traffic management plan was implemented during Q3		
	for the entire facility and		2014 and has vastly improved		
	implement a new plan with		traffic movements on site.		
	no reversing vehicles and separation from vehicles and		However further improvement can still be made and this will		
	people		continue as a goal for 2015.		
idditional improvements	Site Visits / Tours – continue	ongoing	Due to H&S concerns the	Section Head	
	the visits / tours to the site by		company ceased the bosting of		
	local schools to increase		site visits during 2014.		
	promotion of the site and recycling in general.				
dditional improvements		incomplete			
	Develop a company		The company now has a		
	presentation which focuses on educating schools on		presentation in place and is actively working with local		
	recycling and conduct a		schools on an ongoing basis to		
	programme of presentations with local schools		promote recycling. The presentation is specifically		
	with local schools		geared towards schools.		
			S		
dditional improvements	Housekeeping Litter controls	Complete	This process continue to be in	Individual	
	- continue the process of		place and a Litter Manager is in		
	assigning a member of each		place on each shift on site.		
	Production Shift to litter duty as part of site housekeeping		Temporary fencing has also been introduced for periods of		
	and look at ways of		windy weather		
	developing this system				
	further to reduce litter at source				
Vaste reduction/Raw material usage efficiency		Complete		Section Head	
	Housekeeping Dust control – continue the process of DAILY		Roadsweeping is scheduled and carried out on a daily basis on		
	roadsweeping at the site to		site throughout the year.		
	maintain / improve on				
	external dust levels in areas where traffic can rise dust in				
	periods of dry weather				
eduction of emissions to Air		Complete		Section Head	
essected of emissions to Alf	Training - put another	comprete	This was not completed during	pression mean	
	member of staff through the		2014 and is rescheduled for 2015.		
	FAS Waste Management Course				
dditional improvements		incomplete		Section Head	
	Environmental Targets – continue to develop the		This process is ongoing. The company have made switches		
	energy and power saving		to energy saving lighting throughout the site and have		
	programmes within the waste transfer station and all areas		throughout the site and have		
	of the site to reduce the		numerous smaller programmes going on including switching off		
	usage during both		all electrical equipment at night		
	operational and non		etc. Improvements can always		
	operating hours		be made and we will continue this as a programme for 2015.		
			and as a programme for 2013.		
ergy Efficiency/Utility conservation		ongoing		Section Head	
	Environmental Targets – continue to review the Irish		This is always a goal for us and Irish recyclers are always given		
	recycling market to identify		priority over foreign brokers		
	possible recycling options for		when it comes to bidding for		
	various materials within the Country to reduce our carbon		material on site.		
	footprint				
aste reduction/Raw material usage efficiency		ongoing		Section Head	
	Composting - finalise a plan		The company have rolled out		
	to introduce brown bins to all our domestic customers.		brown bins now to around 30% of our domestic customers and		
	Training programmes for the		this will continue during 2015.		
	domestic customer should be		We are on target to meet all		
	developed as part of this project.		required deadlines in terms of brown bin implementation.		
	prophet.		and a series of the series of		
Interiols Usedian (Strength Roadian		Oranian		Individual	
laterials Handling/Storage/Bunding	Operation Controls in relation	Ongoing	An extensive programme of		
	to machine maintenance -		machine maintenance has been		
	continue to develop the maintenance programmes for		implemented and is managed by the company H&S Officer.		
	all operational equipment		by the company H&S Officer. All records are kept to back-up		
	(stationary and mobile plant)		the maintenance of equipment		
	and ensure regular checks are carried out to improve		on site.		
	performance / reliability.				
	Records of all inspections should be kept on file and				
	should be kept on file and reviewed on a regular basis.				
	erren erren regular basis.				
dditional improvements	Description of the	Complete	The second states	Section Head	
	Permitted site – once this site is in a proper condition		The company did not complete this working during 2014 and		
	prepare a plan for the EPA		has not yet developed a		
	with a proposal / application		business plan for this permitted		
	to have this site integrated into the EPA licence		site.		
	The set of the manual				
		incomplete	The company are still going to	Section Head	
dditional improvements	Storage Hub / Car Park				
dditional improvements	Storage Hub / Car Park – as a long term goal continue to		the planning process in relation		
dditional improvements	long term goal continue to look for a suitable location		to this new facility. An appeal		
dditional improvements	long term goal continue to look for a suitable location which will allow a compound		to this new facility. An appeal was lodged to our initial		
dditional improvements	long term goal continue to look for a suitable location which will allow a compound to be built off site to store /		to this new facility. An appeal		
dditional improvements	long term goal continue to look for a suitable location which will allow a compound to be built off site to store / control empty bins or skips. This will not be a waste		to this new facility. An appeal was lodged to our initial planning application and we await the result of this appeal. As soon as approval is granted a		
dditional Improvements	long term goal continue to look for a suitable location which will allow a compound to be built off site to store / control empty bins or skips. This will not be a waste storage area it will be solely		to this new facility. An appeal was lodged to our initial planning application and we await the result of this appeal. As soon as approval is granted a budget is in place to complete		
dditional improvements	long term goal continue to look for a suitable location which will allow a compound to be built off site to store / control empty bins or skips. This will not be a waste storage area it will be solely for storing the company's		to this new facility. An appeal was lodged to our initial planning application and we await the result of this appeal. As soon as approval is granted a		
udditional Improvements	long term goal continue to look for a suitable location which will allow a compound to be built off site to store / control empty bins or skips. This will not be a waste storage area it will be solely		to this new facility. An appeal was lodged to our initial planning application and we await the result of this appeal. As soon as approval is granted a budget is in place to complete		
déficuel improvements	long term goal continue to look for a suitable location which will allow a compound to be built off site to store / control empty bins or skips. This will not be a waste storage area it will be solely for storing the company's stock of empty skips or bins		to this new facility. An appeal was lodged to our initial planning application and we await the result of this appeal. As soon as approval is granted a budget is in place to complete		
	long term goal continue to look for a suitable location which will allow a compound to be built off site to store / control empty bins or skips. This will not be a waste storage area it will be solely for storing the company's stock of empty skips or bins		to this new facility. An appeal was lodged to our initial planning application and we await the result of this appeal. As soon as approval is granted a budget is in place to complete		
	long term goal continue to look for a suitable location which will allow a compound to be built off site to store / control empty bins or skips. This will not be a waste storage area it will be solely for storing the company's stock of empty skips or bins awaiting distribution	ongoing	to this new facility. An appeal was lodged to our initial planning application and we await the result of this appeal. As soon as approval is granted a budget is in place to complete the works.	Section Head	
	Ineg term goal continue to lock for a suitable location which will allow a compound to be built off site to store / control empty bins or skips. This will not be a waste storage area it will be solely for storing the company's stock of empty skips or bins awaiting distribution Training - continue to support all staff training to	angoing	to this new facility. An appeal was lodged to our initial planning application and we await the result of this appeal. A scon as approval is granted a budget is in place to complete the works. All training scheduled for 2015 was completed with the	Section Head	
	Inerg term goal continue to lock for a suitable location which will allow a compound to be built off site to store / control empty bins or skipc. This will not be awate storage area it will be solely for storing the company's atock of empty skips or bins awailing distribution Training – continue to support all staff training to surve we meet health and	ongoing	to this new facility. An appeal was lodged to our initial planning application and we await the result of this appeal. As soon as approval is granted a budget is in place to complete the works. All training scheduled for 2015 was completed with the exception of the FAV Subste	Section Head	
dättonal improvements Atterials Hending/Norage/Bunding	Ineg term goal continue to lock for a suitable location which will allow a compound to be built off site to store / control empty bins or slips. It is will not be a waste storage area it will be sof- stock of empty skips or bins awaiting distribution Training – continue to proport all staff training to ensure we meet health and	ongoing	to this new facility. An appeal was lodged to our initial planning application and we await the result of this appeal. A scon as approval is granted a budget is in place to complete the works. All training scheduled for 2015 was completed with the	Section Head	
	Inerg term goal continue to lock for a suitable location which will allow a compound to be built off site to store / control empty bins or skipc. This will not be awate storage area it will be solely for storing the company's atock of empty skips or bins awailing distribution Training – continue to support all staff training to surve we meet health and	ongoing	to this new facility. An appeal was lodged to our initial planning application and we await the result of this appeal. As soon as approval is granted a budget is in place to complete the works. All training scheduled for 2015 was completed with the exception of the FAV Subste	Section Head	
Aterial: Handing/Storagy/Bunding	Ineng term goal continue to lock for a suitable location which will allow a compound to be built off site to store / control empty bins or skips. This will not be awate storage area it will be solely for storing the company's stock of empty skips or bins awaiting distribution Training – continue to support all staff training to safety and other compliance tandards as well as develop		to this new facility. An appeal was lodged to our initial planning application and we await the result of this appeal. As soon as approval is granted a budget is in place to complete the works. All training scheduled for 2015 was completed with the exception of the FAV Subste		
	Ing term gait continue to lock for a suitable location which will allow a compound to be built of the to store / to be built of the to store / the store area in the to store / this will not be a waste storega area it will be solely for storing the company's stock of empty ships or bins awaiing distribution tracking - continue to support all staff training to support all staff training to standards as well a develop our workforce	orgoing	to this new facility. An appeal was lodged to our initial planning application and we await the result of this appeal. As soon as a pproval is granted a budget is in place to complete the works. All training scheduled for 2015 was completed with the exception of the FAV Subste	Section Head	50407

e monit rement for mary belo mark the EP/ ng the EP/ ng the EP/ in the gui in the gui in the gui st undate site noise e location if te te if te i te i	Nois ise sum ise sum ise sum icluded duction n plante Nois Nois On si On si On si On si	Noise noise monitoring a licence requir noise monitoring a licence requir noise monitoring a licence requir noise monitoring arried out usi your site have a noise reduction n was the noise reduction plan la n was the noise reduction plan la there been changes relevant to n was the noise reduction plan la n was the noise reduction plan la n was the noise reduction plan la there been changes relevant to n was the noise reduction plan la there been changes relevant to n was the noise reduction plan la n 11/10/14 daytime 0n si 11/10/14 daytime 0n si 11/10/14 daytime 0n si 11/10/14 daytime 0n si	Noise monitoring summary report Lic No: W0106-02 Year 2014	rement for the AER period? Yes Yes March AER period?	2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for <u>Guidance</u> noise measurement report" included in the guidance note as table 6? <u>note NG4</u>		Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?	e location location -NSL (if compliant with noise sensitive limits (day/evening/night)?	applicable) LA _{eq} LA ₅₀ LA ₁₀ LA _{max} nois	ite N1 54 51 55.6 68.1 Yes Yes Yes Yes	ite N1 54.1 50.3 55.7 70.2 Yes Yes Yes Yes	ite N1 53.1 48.9 55.3 71.5 Yes Yes Yes	ite N2 44.6 42.6 46.1 57.9 No Yes	ite N2 44.3 42 46.2 63.6 No Yes	
	Noise monito e requirement for ise summary belov duction plan plan last updated vant to site noise vant to site noise Noise location (on site On site On site On site On site	Noise monitoring summary Noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below 2 Was noise monitoring a licence requirement for the AER period? 3 Des your site have a noise reduction plan 4 When was the noise reduction plan 5 Have there been changes relevant to site noise emissions (e.g. plante of a prise monitoring summary Table N1: Noise monitoring summary TriJ10/14 daytime On site IT/10/14 daytime On site IT/10/14 daytime On site IT/10/14 daytime		or the AER period? low	A Guidance note, including Jidance note as table 6?	ed?	e emissions (e.g. plant or ol			N1	N1	N1	N2	N2	

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

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

SELECT

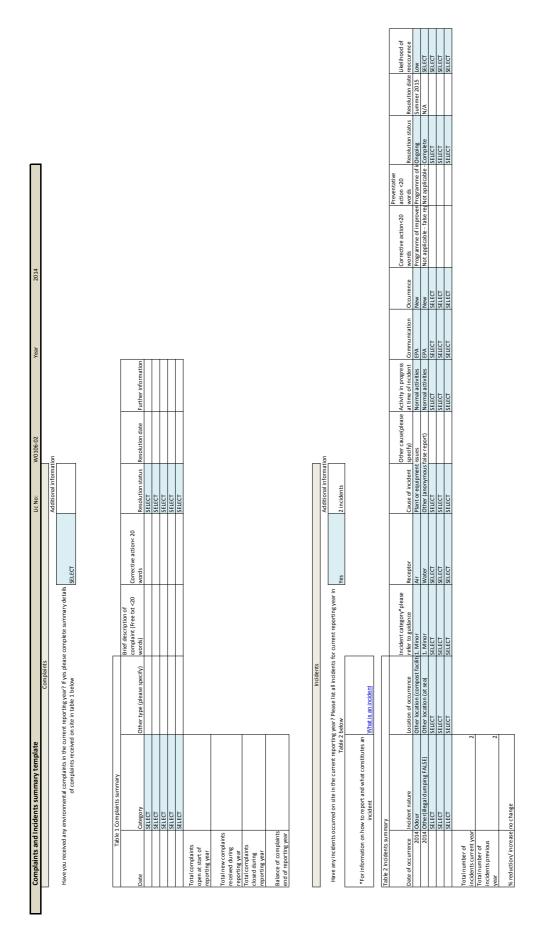
** please explain the reason for not taking action/resolution of noise issues?

Any additional comments? (less than 200 words)

When dd the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below Stal programme linked to the right? If yes please list them in additional information Stal programme linked to the right? If yes please list them in additional and the one and the on	
2 Start Energy transition information 3 Start parametic for reducing energy usage/water conservation such as the suphur content compliant with licence conditional information. 3 Start parametic for equit if ty spices list them in additional information. 3 Start parametic for equit if ty spices list them in additional information. 3 Start parametic for equit if the spice is the suphur content compliant with licence conditions? Please state percentage in additional formation. 3 Information. Information. 3 Start Stream Energy used (MMHr) 3 Energy Use Energy Use 1 Table N1 Energy used (MMHr) Start Parametic to the energy consumption 1 Energy Use Energy Use Energy Consumption 1 Energy	Enter date of audit
	Į.
Table R1 Energy usage on site Production +/-% Energy Consumption Energy Use Compared to production* Energy Consumption Energy Use Energy Consumption +/-% Site energy Consumption Energy Use Energy Consumption +/-% Site energy Consumption Energy Use Energy Consumption +/-% Site energies Fold Energy Used (MWHrs) 18/14.755 1725 -7.99% Fold Energy Consumption HowHrs) 18/14.755 125.53 -32.81% Fold Energy Consumption Matural gas (mai) 16/75.455 1125.737 -32.81% Fold Energy Consumption Matural gas (mai) 16/75.455 1125.737 -32.81% Fold Consumption Matural gas (mai) 16/75.455 1125.737 -32.81% Natural gas (mai) 16/75.455 1125.737 -32.81% Energy Consumption Natural gas (mai) 16/75.455 1125.737 -32.81% Energy Consumption Natural gas (mai) Natural gas (mai) 16/75.455 1125.737 -32.81% Conf>Sold fuely (metric tonnes) Matural gas (mai)	ECT
Table R1 Freery usage on site Table R1 Freery Consumption Erery Use Freery Use Erery Use Production +/- % Freery Use Production +/- % Total Freery Used (NWHrs) Production * Total Freery Used (NWHrs) Production * Total Remain Freery Orienterated (NWHrs) 187.4.775 Total Remain Freery Orienterated (NWHrs) 187.4.775 Total Remain Freery Orienterated (NWHrs) 187.4.775 Fertificity Consumption 11.25.7.87 Fertificity Consumption 1.125.7.87 Call/Solid free (OIIIII) 1.125.7.87 Call/Solid free (OIIIII) 1.125.7.87 Fertifici	
Total Energy Use Energy Use Total Energy Generated (MWHrs) Production +/- % compared to production* Energy Consumption production* Total Energy Generated (MWHrs) Energy Consumption production*	
Total Energy Used (MWHrs) Fremon Seal Monton S	
Total Energy Generated (MWHrs) Total Energy Generated (MWHrs) 1373,175 1325 7.99% Point Representation (MHrs) Fiber Energy Generated (MWHrs) 1874,175 1125,787 -7.99% - - Fiber Energy Generated (MWHrs) 1874,175 1125,787 -	
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* Where consumption of energy can be compared to overall site production please enter this information as percentage increase or decrease compared to merious year * where consumption information is available please enter percentage increase or decrease compared to previous year Table R2 Water usage on site Table R2 Water usage on site Production +/- % Productio	
Table R2 Waster reference of waster Table R3 W	se compared to the previous reporting year.
er er production inforr Table R3 Wasts	Iter Emissions Water Consumption
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re consumption of water ere site production inforr Table R3 Wast	
** where site production information is available please enter percentage increase or decrease compared to previous year Table R3 Waste Stream Summarv	e compared to the previous reporting year.
Table R3 Waste Stream Summary	
Total Landfil Incineration Recycled Other	ler

Hazardous (Tonnes) Non-Hazardous (Tonnes)

Resource Usage/Energy emiciency summary	lary			Lic No:	W0106-02		Year	2014
Table R4: Energy Au	le R4: Energy Audit finding recommendations	ions						
		Description of		Predicted energy				Status and
Date of audit	Recommendations	Measures proposed	Origin of measures savings %	savings %	Implementation date Responsibility	Responsibility	Completion date	comments
			SELECT					
			SELECT					
			SELECT					
Table R5: Power Generation: Where pov	ion: Where power is generated onsite (e.g. power generation facilities/food and drink industry)please complete the following information	g. power generation facil	ities/food and drink i	industry)please complet	te the following informat	ion		
	Unit ID	Unit ID	Unit ID	Unit ID	Station Total			
Technology								
Primary Fuel								
Thermal Efficiency								
Unit Date of Commission								
Total Starts for year								
Total Running Time								
Total Electricity Generated (GWH)								
House Load (GWH)								
KWH per Litre of Process Water								
VM/H nor litro of Total Mator used on Sito	4							



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WASTE SUMMARY					Lic No:	W0106-02		Year	2014		
SECTION A-PRTR ON	V SITE WASTE TREATMENT AND WASTE TRANS	ASTE TRANSFERS TAB- TO BE CO	MPLETED BY	ALL IPPC AND WASTE FACILITI	LITIES	PRTR facility logon			dropdown list click to see options		
SECTION B- WASTE	ACCEPTED ONTO SITE-TO BE COMP	LETED BY ALL IPPC AND WA	STE FACILITIES								
Were any wastes accepter	Were any wastle <u>accepted</u> on Dynur site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility?; (waste generated within your boundaries is to be recovered to one accepted on Dynur site for recovery or disposal or treatment prior to recovery or disposal within the boundaries is to be	eatment prior to recovery or dispos	al within the boundaries of y	our facility ?; (waste genera	sted within your boundaries is to be	Lugias	Addrional Information				
If yes please enter details in table 1 below	eportung/ : in table 1 below					SELECI					
2 Did your site have any reje	2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information	eporting year? If yes please give a b	rief explanation in the additio	nal information		SELECT					
3	Was waste accepted onto your site that was generated outside		the Republic of Ireland? If yes please state the quantity in tonnes in additional information	quantity in tonnes in additi	ional information	SELECT					
Table 1 Details of	waste acce	e for recovery, disposal (or treatment (do no	t include wastes g	enerated at your site, as the	se will have b	een reported in	your PRTR workbo			
Licenced annual connage limit for your site (total tonnes/annun)	EWC code	Source of waste accepted	Description of waste corepted enter an accurate and detailed description - which applies to relevant EWC code	te Quantity of waste Please accepted in current and reporting year (tonnes) n- sievant	Quantity of vaste accepted in previous reporting year (tomes)	Reduction/ Increase over previous year +/- %	Reason for reduction/ increase from previous reporting year		Padeaping Canter (1%) - Boyasoli Receivery or transmitter (Laurity or water on yaphing if the water loperation carried out at yours the remaining no site has a packaging and the description of this at the end of component operation in the second of reporting year component operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -
	European Waste Catalogue EWC codes		European Waste Catalogue EWC codes								
	2003.01	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND WATTUTIONAL WASTES) WALUDING SEPARATELY COLLÉCTED FRACTIONS	, Domestić Municipal Waste	21892.13	27966.41		-21.78% Market Demand	0%	D13-Blending or mixing prior to submission to any of the operations numbered D1 to D12	0	
	2003 01	20- MUNCIPAL WASTS (POUSEND WASTE AND POUSET AND WASTE AND MALAR COMMERCIAL MOSTS MUCHON GS SHANT COMMERCIAL WASTS MUCHON GS PARACTONS WASTE AND MUST COMMERCIAL	Commercial Municipal Waste	53597, <u>98</u>	13573.78		294.86% Market Demand		D13- Blending or mixing prior to b13- Blending or mixing prior to submission to any of the O% operations numbered D1 to D12	0	
	2003.03	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND NSTTUTIONAL WASTES) WALUDING SEPARATELY COLLÉCTED FRACTIONS	, Street / Road Swe epings	1874.14	185732		0.91% (Market Demand	0	R5-Recycling/reclamation or other Inarganic materials which includes sat cleaning resulting in recovery of the soil and recycling of inorganic OS (construction materials	0	
	17 09 04	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Mixed C & D was te	1068.71	1443.15		-25.95% Market Demand		R5. Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic O% construction materials	0	
	17 02 01	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Wood / Timber	388.95		i0/\ld#	Market Demand		R5. Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic O% construction materials	0	
	2002 01	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR DAMAFEGAL INDUSTRIAL AND WSTTUTIONAL WASTES) NACLUDING SEPARATEY COLLECTED FRACTIONS	, Garden and Park Woste	971.86	1302.56		-25.39% Morket Demand		R3-Recycling/reclamation or organic substances which are not used as solvents(including compasting asondre biological transformation processes)which o% includes gasification and pyrolisis	0	

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38. WASTS FROM HUMAN OR MELATAT HEST AND RELATAT HERT AND		20 03 04	20- MUNICIPAL WASTES AND (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRAL AND NSTITUTIONAL WASTES) INCLUDING SEPARATENY COLLECTED FRACTONS	Studge / Compostable Materials	0	250.2		Market Demand	60		0	
Promu menediate relationer volate U Distanti menediate relationer volate U Distanti menediate relationer volate U Distanti menediate relationer volate Distanti menediate Distanti menediate Distanti menediate Distanti menediate Distanti menediate Distantimenediate Distanti menediate			15. WASTES FROM HUMAN OR MASSES FROM HUMAN OR AMBAL HEAT FLOC BREADOR RELATED RESEARCH except RELATED RESEARCH except research research and research medica RESEARCH (RERAF INTERNO DAT) RESEARCH RERAF INTERNO DAT)							(1.3.5.6.0.0.6.1.0.0.6.1.0.0.6.1.0.0.6.1.0.0.6.1.0.0.6.1.0.0.0.6.1.0.0.0.0		
89402.87		18 01 04	Jrom immediate nearch care)	NON-NISK HEQUIDCOLE WOSCE	0			warket nemona	50	(TTN 01	0	
					104074.53	89.402.8						
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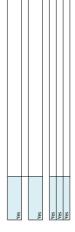
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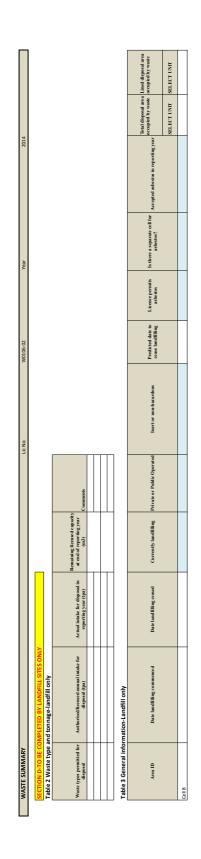
ECTION C-TO BE COMPLETED BY ALL WASTE FACILITES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES

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

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

6 Dees your facility have relevant nuisance controls in place? 7 Do you have an odour management system in place for your facility? If no why? 8 Do you maintain a sludge register on site?

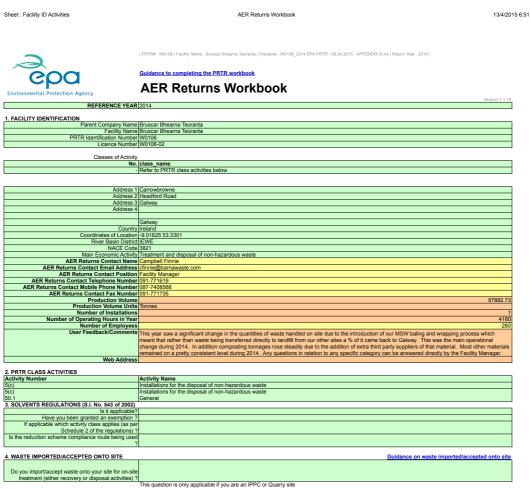




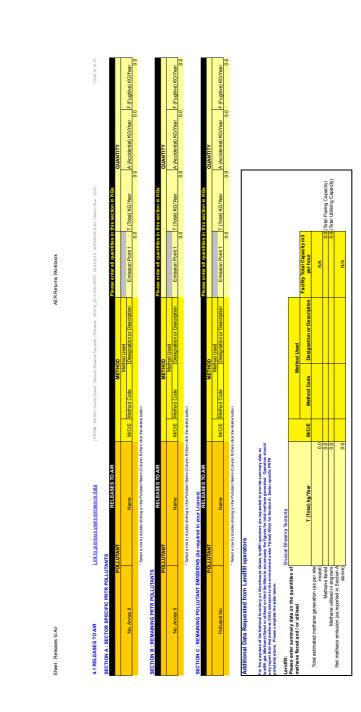
WASTE SUMMARY					Lic No:	W0106-02		Year	2014
Table 4 Environmen	Table 4 Environmental monitoring-landfill only	Landfill Manual-Monitoring Standards	ards						
Was meterobytical monitoring in compliance with Landfill Directive (L.D) standard in reporting Was leachate year +	k Vist leachaite monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the fact attentioned Were emission limit values agreed with the fact attention of in WAA have automated Agrees (ELNA)	Was topography of the site surveyed in reporting year	Was topography of lines the statement Was topography of mode SS3(AA)S0 of the site surveyed in WMA been submitted reporting year	Comments	
.+ please refer to Landfill Manual linked	Manual linked above for relevant Landfill Directive monitoring standards	ective monitoring standards							
Table 5 Capping-Landfill only									
Area uncapped*	Area with temporary cap			Area with waste that should be permanently					
SELECT UNIT	SELECT UNIT	Area with final cap to LD Standard m2 ha, a	Area capped other	capped to date under licence	What materials are used in the cap	Comments			
*please note this includes daily cover area Table 6 Leachate-Landfill only 9 Is leachate from your site treated in Wast 10 Is leachate released to surface water? If y		a sste Water Treatment Plant? ves please complete leachate mass load information below				SELECT SELECT	_		
Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (N H4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments		
Please e Table 7 Landfill Gas-Landfill onlv	Please ensure that all information n ·Landfill only	Please ensure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTR returns conty	consistent with the Landfill A	Gas Survey submitted in con	njunction with PRTR returns				
Gas Captured&Treated by LFG System m3	y Power generated (MW / KWh)	Used on-site or to national grid	was surface emissions monitoring performed during the reporting year? Comments	Comments					
			SELECT						

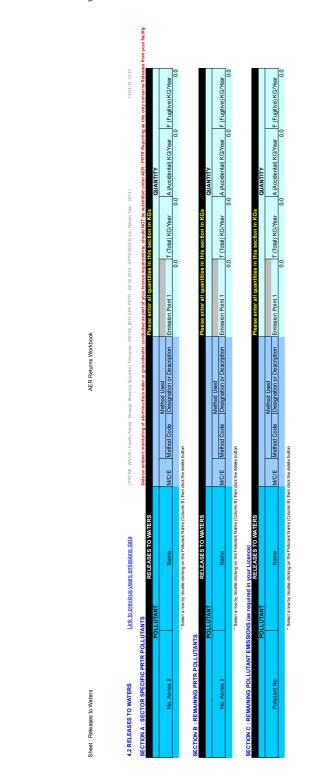
Appendix B:

AER / PRTR Workbook for 2014



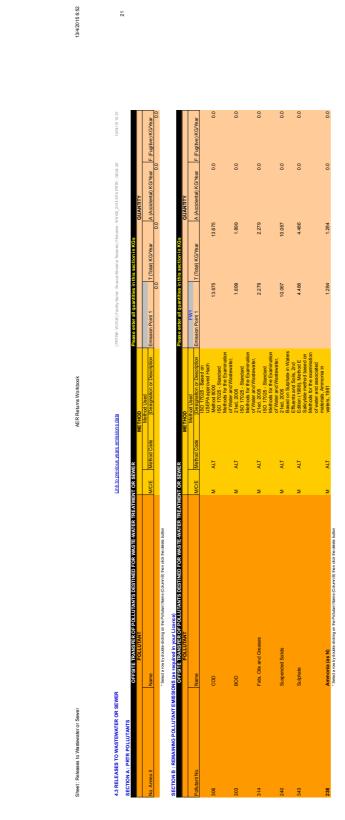
estion is only applicable if you are an IPPC or Quarry site

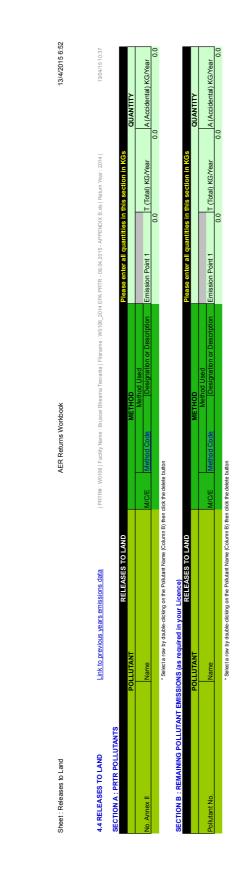




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AER Returns Workbook

Sheet : Treatment Transfers of Waste

9.00

9	Actual Address of Final Destination Le. Final Recovery / Disposal Sile	ZARDOUS WASTE ONLY					Clonminam Industrial Estaate, PortlaoiseCo. Laois, Ireland												
	Name and License / Permit No. and Address of Fhal Recovery / Actua Disposer (HAZARDOUS WASTE Le. F						ENVA Ireland Ltd.,W0184- 01.Clonminam Industrial Clonn Estaate,PortlaoiseCo. Estaa Laois,Ireland Laois,												
	Haz Waste : Address of Next Destination Facility Non Haz Waste : Bacrossifilances of	Ibeoder 2000	Drehid,Co. Kildare,Ireland	Ballintrane ,Fenagh,Co Carlow,Ireland	Tonyhabboc,Newtowncunni noham . Co. Donecal Ireland			Carrowbrowne, Headford Road, Galway,Ireland	Beauparc,Navan,Co MeathIreland	Veerplaat .40 3313 LJ ,Dordrecht ,Rotherdam,Netherlands	11 Alvaston Business Park , Middlewich Road ,Nantwich ,Cheshire CW5 6PF ,United Kingdom	Ballmacken Industrial Estate,Ballmacken,Portlaois e,Laois,Ireland	Auchans Road , Houston Johnstone Renfrewshire ,PA6 7EE , United Kingdom	29 Rue D- Astord,Paris,75008,France 11 Alvaston Business Park ,	Middlewich Road , Nantwich ,Cheshire CW5 6PF ,United Kingdom	29 Rue D- Astord,Paris,75008,.,France	11 Alvaston Business Park , Middlewich Road , Nantwich , Cheshire CW5 6PF , United Kingdom	Ballmacken Industrial Estate, Ballmacken, Portlaois e, Laois, Ireland	Grant House, Stafford Park
	Haz Waste, Name and Licence/Permit No of Naxi Destination Facility <u>Haz Waste</u> , Name and Licence/Permit No of Recover/Disconcert		Drehid Waste Management Facility, W0201-01	Ballintrane ,Fen: O'Toole Compost,W0284-01 CarlowIreiand Duffy Tyre Recording	Lutry 1 yre Recycling Ltd, Broker licence IRE/G245/11. Site licence WFP-DL-010-0118-01	Drehid Waste Management Facility, W0201-01	ENVA Ireland Ltd.,W0184- 01	Barna Waste (Composting Facility),EPA Licence 106/2	Offsite in Ireland Nurendale Ltd,W0140-04	Peute Papler Recycling ,DO 02.2017 MDO Becycling 1 IV 1 44	(Broker), NSO/54843/B - Broker Number & Broker Number & RE/G069/08 TFS Registration No	Agnail Ltd,Broker	WRC Recycling ,IRE/G068/08	Anthon B Neilsen,Broker IRE/G100/14	Recycling UK Ltd (Broker).	Anthon B Neilsen, Broker IRE/G100/14	.843/B -		Northwood Recycling
		Location of Treatment	Abroad	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Abroad	Abroad	Offisite in Ireland Agnail Ltd, Broker	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	
	Method Used		Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	
-		nt M/C/E	Σ	¥	Σ	¥	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	٤	Σ	
		Waste Treatment Operation	R12	R12	R12	R12	R4	R5	R3	R12	R12	R12	R12	R12	R12	R12	R12	R12	
		Description of Waste	Rubble / Inert Material	non-composition inaction or municipal and similar wastes	end-of-life tyres	non-composted fraction of municipal and similar wastes	8.14 lead acid batteries	Rubble / Inert Material	gypsum-based construction materials other than those mentioned in 17 08 01	5842.72 Mixed Paper	4970.66 Mixed Paper	49.26 Mixed Paper	815.6 Mixed Paper	99.2 Mixed Paper	25.02 Newspaper	100.58 Cardboard - OCC	24.44 Shredded Office Paper	1277.76 Cardboard - OCC	
	Quantity (Tonnes per Year)	snop	126.86	18.88	277.28	450.96	8.14	2928.46	26.02	5842.72	4970.66	49.26	815.6	99.2	25.02	100.58	24.44	1277.76	
		te Hazardous	No	No	No	No	Yes	No	No	٩	No	No	No	No	N	^o N	Ŷ	No	
		European Waste Code	17 01 07	19 05 01	16 01 03	19 05 01	16 06 01	17 01 07	17 08 02	19 12 01	19 12 01	19 12 01	19 12 01	19 12 01	19 12 01	19 12 01	19 12 01	19 12 01	
		Transfer Destination	To Other Countries 17 01 07	Within the Country 19 05 01	Within the Country 16 01 03	Within the Country	Within the Country	Within the Country 17 01 07	Within the Country	To Other Countries 19 12 01	To Other Countries 19 12 01	Within the Country	To Other Countries 19 12 01	To Other Countries	Fo Other Countries 19 12 01	To Other Countries 19 12 01	To Other Countries 19 12 01	To Other Countries 19 12 01	

| PRTR# : W0106 | Facility Name : Bruscar Bheama Teoranta | Filename : W0106_2014 EPA PRTR - 08.04.2015 xts | Return Year : 2014 |

			Quantity (Tonnes per Year)			2	Method Used		Haz Waste : Name and Licence/Permit No of Next Destination Facility Haz Waste : Name and Licence/Permit No of Racover/Daposat	Haz Waste : Address of Next Desthebon Facility Non Haz Waste, Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recovery / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination 1.e. Final Recovery / Disposal Site (H.Z.ARDOUS WASTE ONLY)
Transfer Destination	European Waste Code	Hazardous		Description of Waste	Waste Treatment Operation	M/C/E	Method Used	Location of Treatment				
To Other Countries 19 12 01	19 12 01	No	327.72	327.72 Shredded Office Paper	R12	×	Weighed		Northwood Recycling Ltd.Broker licence: IRE/G282/12	Grant House, Stafford Park 12, Telford, Shropshire TF3 3BJ, United Kingdom		
To Other Countries 19 12 01	19 12 01	oN	621.08	621.08 Cardboard - OCC	R12	Σ	Weighed	Abroad	Peute Papier Recycling ,DO 02.2017 MDO Recycling UK Ltd	veerplaat ,40 3313 LJ ,Dordrecht ,Rotherdam,Netherlands		
To Other Countries 19 12 01	19 12 01	Ŷ	375.46	375.46 Cardboard - OCC	R12	Σ	Weighed	Abroad	(Broker),NSO/544843/B - Broker Number & IRE/069/08 TFS Registration No Elimark (Broker),Irish TFS Broker Licence - Broker Licence -	11 Alvaston Business Park , Middlewich Road , Nantwich ,Cheshire CW5 6PF ,United Kingdom		
To Other Countries	19 12 01	No	1557.62	1557.62 Cardboard - OCC	R12	¥	Weighed	Abroad	IRE/G181/11 and IRE/G180/12 Panda Waste (Broker).Irish	Ireland		
Within the Country	19 12 01	No	576.18 (576.18 Cardboard - OCC	R12	W	Weighed	Offsite in Ireland	TFS Brokers licence number IRE/G040/12	Ireland		
Within the Country	19 12 02	No	734.6	734.6 Mixed Scrap Metal 90% ferrous	R12	M	Weighed	Offsite in Ireland	Galway Metal Recycling,WR/05	Oranmore ,Co.Galway Ireland Thetwell		
Within the Country 19 12 02	19 12 02	No	118.26	118.26 Steel Cans	R12	¥	Weighed	Offsite in Ireland Novellis, BL6802IU	Novellis, BL6802IU	Lane,Warrington,WA4 1NN,United Kingdom		
To Other Countries 19 12 02	19 12 02	Ŋ	467.98	467.98 Steel Cans	R12	Σ	Weighed	Abroad	WRC Recycling IRE/G068/08	Auchans Road , Houston Johnstone Renfrewshire PA6 7EE , United Kingdom		
Within the Country	19 12 02	No	70.74	70.74 Mixed Scrap Metal 90% ferrous	R12	Σ	Weighed	Offsite in Ireland	Wilton Waste Recycling Ltd,WFP-CN-10-0005-01 Becicing 11k 1 44	miragn.crossenougn.bairyja mesduff.County Cavan.Ireland		
To Other Countries	19 12 01	No	41.52 k	41.52 kraft paper / carborad bags	R12	×	Weighed	Abroad	recycling On Lud (Broker) NSO/544843/B - Broker Number & IRE/G069/08 TFS Registration No	11 Alvaston Business Park , Middlewich Road , Nantwich ,Cheshire CW5 6PF ,United Kingdom		
To Other Countries 17 08 02	17 08 02	No	77.26 t	gypsum-based construction materials other 77.26 than those mentioned in 17 08 01	R12	×	Weighed	Abroad	McNabb Waste,IRE/G407/16	23 Downpatrick Road,Killough,Downpatrick, Co Down,Ireland Lloit 11A Riloris Industrial		
To Other Countries 19 12 04	19 12 04	No	21.74 F	21.74 Plastic Bottles - PET	R12	×	Weighed	Abroad	Vanden Global,IRE/G274/16 Materia	Estate, Antonio Road, Lisbon, Portugal The Kinner		
Within the Country 19 12 04	19 12 04	No	26.38 Plastic	Plastic Bottles - PET	R12	×	Weighed	E Offsite in Ireland	Environmental, Broker Licence IRE/AG161/15	House, Scilly, Kinsale, Co. Cork, Ireland		
Within the Country	19 12 01	N	6.76 (6.76 Cardboard - OCC	R12	×	Weighed	F Offsite in Ireland	Rebox,Not applicable (Re- use)	Estate,Killeen Road,Dublin 10,Ireland Cotton Way,Loughborough		
To Other Countries 19 12 04	19 12 04	No	100.0	100.0 Clear plastic film	R12	×	Weighed	Abroad	Jayplas,43451	Leicestershire, LE11, United Kingdom		
To Other Countries 19 12 04	19 12 04	g	172.2	172 2 Clear clastic film	55	2	Ministrad	V	WRC Recycling	Auchans Road , Houston Johnstone Renfrewshire		

	5:28	is a																	
	13/4/2015 15:28	Actual Address of Final Destination Le. Final Record V/ Disposal Sile Le. FANA REQUES WASTE ONLY)																	
		Name and Lkense / Permit No. and Address of Final Recovers / Disposer (HAZARDUS WASTE ONUY)																	
		n Haz Waste : Address of Next Desthation Facility Non Haz Waste, Address of Recover/Dispose		Auchans Road , Houston Johnstone Renfrewshire ,PA6 7EE , United Kingdom	House, Scilly, Kinsale, Co. Cork, Ireland	Rubican Centre, CIT Campus, Bishopstown, Co Cork, Ireland	Veerplaat ,40 3313 LJ) ,Dordrecht ,Rotherdam,Netherlands	Auchans Road , Houston Johnstone Renfrewshire , PA6 7EE , United Kingdom The Kingdom	House, Scilly, Kinsale, Co. Cork, Ireland	Clermont Business Park ,Haggardstown ,Dundalk ,Co.Louth,Ireland	Auchans Road , Houston Johnstone Renfrewshire , PA6 7EE , United Kingdom	Caro Solucianscient Drive Caro Solucianscient Drive Dublin, Greenogue Rathcoole Co. Dublin, Co. Rathcoole Co. Dublin, Co. Dublin, Ireland	Auchans Road , Houston Johnstone Renfrewshire , PA6 7EE , United Kingdom	34 Greenfield Avenue,Maynooth,Co KildareIreland	County Durham,,United Kingdom	Auchans Road , Houston Johnstone Renfrewshire , PA6 7EE , United Kingdom	Clermont business Park ,Haggardstown ,Dundalk ,Co.Louth,Ireland	The Kipper House, Scilly, Kinsale, Co. Cork, Ireland Cotton Way, Loudhborough	Leicestershire, LE11, United Kingdom
		Haz Waste Name and LicentoeParmit No of Next Destination Facility Maz Waste Name and LicencerPermit No of RecoverDispose		WRC Recycling ,IRE/G068/08 Materia		Marwin Environmental Ltd,IRE/G027/15	Peute Papler Recycling , DO , Dordrecht 02.2017 MDO , Rotherdarr	WRC Recycling ,IRE/G068/08 Materia		Leinster Environmental,WP 2008/06	WRC Recycling ,IRE/G068/08	Global Material Recycling (Electrical Waste Management Site),Licence Number WFP-DS-090012- 01	WRC Recycling ,IRE/G068/08	G.S Agencies,IRE/AG241/14	GFSL Limited,Broker IRE/G217/12	WRC Recycling ,IRE/G068/08	Leinster Environmental,WP 2008/06 Materia	Environmental, Broker Licence IRE/AG161/15	Jayplas, 17/12/2018
	ð		Location of Treatment	Abroad	Offsite in Ireland	Offsite in Ireland	Abroad	Abroad	Offsite in Ireland	Offsite in Ireland	Abroad	Offsite in Ireland	Abroad	Abroad	Offsite in Ireland	Abroad	Offsite in Ireland	Abroad	Abroad
	AER Returns Workbook	Method Used	C/E Method Used	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed
			Waste Treatment Operation M/C/E	×	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Ψ	¥	Σ	Σ	×
			Treat Description of Waste Oper	236.0 Plastic Trays/Cartons R12	22.1 Plastic Trays/Cartons R12	25.78 Plastic Trays/Cartons R12	24.68 Mixed Coloured Plastic Bags (JAZZ Plastic) R12	730.04 Plastic Bottles - PET R12	21.92 Plastic Bottles - PET R12	20.16 industrial plastics - mixed R12	101.82 industrial plastics - mixed R12	18.94 industrial plastics - mixed	rd Plastic R12	8.16 industrial plastics - mixed R12	Ird Plastic R12	405.22 Mixed Coloured Plastic Bags (JAZZ Plastic) R12	ked Coloured Plastic Bags (JAZZ Plastic) R12	ved Coloured Plastic Bags (JAZZ Plastic) R12	26.24 HDPE Plastic Bottles R12
		Quantity (Tonnes per Year)		236.0 P	22.1 P	25.78 P	24.68 M	730.04 P	21.92 PI	20.16 in	101.82 in	18.94 in	73.42 Hard	8.16 in	73.42 Hard	405.22 Mi	49.16 Mixed	24.04 Mixed	26.24 HC
			Hazardous	Ŷ	No	No	No	No	No	No	No	No N	No	°N N	No	No	No	No	No
ansfers of Waste			European Waste Code	19 12 04	19 12 04	19 12 04	19 12 04	19 12 04	19 12 04	19 12 04	19 12 04	19 12 04	19 12 04	19 12 04	19 12 04	19 12 04	19 12 04	19 12 04	19 12 04
Sheet : Treatment Transfers of Waste			Transfer Destination	To Other Countries 19 12 04	Within the Country	Within the Country	To Other Countries 19 12 04	To Other Countries 19 12 04	Within the Country	Within the Country	To Other Countries 19 12 04	Within the Country 19 12 04	To Other Countries	To Other Countries 19 12 04	Within the Country	To Other Countries 19 12 04	Within the Country 1	To Other Countries	To Other Countries 19 12 04

| PRTR# : W0106 | Facility Name : Bruscar Bheama Teoranta | Filename : W0106_2014 EPA PRTR - 06.04.2015.xls | Return Year : 2014 |

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			Quantity (Tonnes per Year)				Method Used		<u>Haz Waste</u> : Name and Licence/Permit No of Next Destination Facility <u>Non</u> <u>Haz Waste</u> Ame and Licence/Permit No of Recowr/Disposat	L Haz Waste : Address of Next Destination Facility Non Haz Waste, Address of Recovn/Discosa	Name and License / Fermit No. and Address of Fhal Recoverer / Disposer (HAZARDOUS WASTE	Actual Address of Final Destination Le. Final Recovery / Disposal Sta Le. Final Recovery / Disposal Sta
Transfer Destination	European Waste Code	Hazardous		Description of Waste	Waste Treatment Operation	int M/C/E		Location of Treatment			1.000	
To Other Countries 19 12 04	9 12 04	°N N	292.5	292.5 HDPE Plastic Bottles	R12	Σ	Weighed	Abroad	WRC Recycling IRE/G068/08	Auchans Road , Houston Johnstone Renfrewshire , PA6 7EE , United Kingdom Unit 11A, Blaris Industrial		
To Other Countries 19 12 04	9 12 04	No	25.62	25.62 Mixed Coloured Plastic Bags (JAZZ Plastic) R12	ic) R12	Σ	Weighed	Abroad	Vanden Global, IRE/G274/16	Estate, Antonio Road, Lisbon, Portugal Cotton Way, Loughborough		
To Other Countries 19 12 04	9 12 04	No	81.38	81.38 Mixed Coloured Plastic Bags (JAZZ Plastic)	ic) R12	¥	Weighed	Abroad	Jayplas,43451	Leicestershire, LE11, United Kingdom		
To Other Countries 19 12 04	9 12 04	No	24.54	24.54 HDPE Plastic Bottles	R12	Σ	Weighed	Abroad 0	Peute Papier Recycling ,DO 02.2017 MDO			
Within the Country 16	19 12 04	No	18.1	18.1 Plastic Trays/Cartons	R12	Σ	Weighed	Offsite in Ireland	G.S Agencies,IRE/AG241/14	34 Greentield Avenue,Maynooth,Co KildareIreland Unit 4 Osberstown Industrial		
Within the Country 18	19 12 05	No	1083.1	1083.1 glass bottles / jars	R12	Σ	Weighed	P Offsite in Ireland	Rehab Glassco Ltd,Waste Permit No. WFP-KE-08- 0357-01	Park,Caragh Road,Naas,County Kildare,Ireland		
Within the Country 19	19 12 05	No	134.2	134.2 Window / flat glass	R12	Σ	Weighed	L L Offsite in Ireland	Ltd,Permit Number WFP- WM-2009-0007-01	Split Hill Quarry, Hazelwood , Kilbeggan, County Westmeath, Ireland		
Within the Country 15	19 12 07	No	394.98	394.98 Shredded Timber	ß	¥	Weighed	Deffsite in Ireland F	Drehid Waste Management Facility,W0201-01 OCR Waste	Drehid,,Co. Kildare, Ireland Office		
Within the Country 19	19 12 07	No	1396.46	1396.46 Shredded Timber	D15	W	Weighed	M Offsite in Ireland 0	Management, WFP-RN-10- 0001-01	2,Roxborough,Roscommon, Co. Roscommon,Ireland		
Within the Country 19	19 12 07	No	16.7	16.7 Shredded Timber	R3	٤	Weighed	A Offsite in Ireland a	Athgaine Mushrooms,Not applicable	Cortown,Kells,Co MeathIreland Jamestown Business Park		
Within the Country 19	19 12 07	No	5.22	5.22 Timber pallets	R3	Σ	Weighed	Officite in Ireland	Chen Pallets Not annifrable	Jamestown Road,Finglas,Dublin 11 Iraiand		
	19 12 07	No	8.06	8.06 Shredded Timber	E3	×			Rathroeen Landfill, W0067-	Ballina,County		
	19 03 05	No	2591.26	stabilised wastes other than those 2591.26 mentioned in 19 03 04	R3	Σ			Local Farmers, Not Applicable	Various Various Addresses,,Ireland		
									Composting Site			
Within the Country 19	19 12 09	No	1270.66 Inert Soil	Inert Soil	R3	¥	Weighed	(Coffsite in Ireland Li	(Carrowbrowne), EPA Licence Number 13-1	Carrowbrowne ,Headford Road,Galway ,.,Ireland		
Within the Country 19	19 12 10	No	399.44	399.44 combustible waste (refuse derived fuel)	R1	Σ	Weighed	P Offsite in Ireland L	Panda Finglas (Nurendale Ltd),W0261-02	Cappogue, Finglas, Dublin 11, Dublin 11, Ireland		
Within the Country 19	19 12 10	No	26.68	26.68 combustible waste (refuse derived fuel)	50	Σ	Weighed	P Offsite in Ireland LI		Park,Balbriggan,Co Dublin,Ireland		
Within the Country 19	19 12 12	No	4700.85 (4700.85 General Waste - Landfill	5	¥	Weighed	Ra Offisite in Ireland 02	throeen Landfill,W0067-	Ballina,County Mayo,Ireland		
Within the Country 19	19 12 12	No	4427.57 (4427.57 General Waste - Landfill	6	Σ	Weighed	D Offsite in Ireland Fi	Drehid Waste Management Facility, W0201-01	Drehid Co. Kildare, Ireland		
Within the Country 19	19 12 12	No	50.26 (50.26 General Waste - Landfill	5	Σ	Weighed	Coffsite in Ireland R	Clean Ireland Refuse and Recycling Co Ltd,W0253/01	Quinn Road Business Park, Quinn Road Business Park, Ennis, Co Clare, Ireland		
Within the Country 19 12 12		No	2807.55 (2807.55 General Waste - Landfill	10	Σ	Weighed	L Dffsite in Ireland C	Limerick County Offsite in Ireland Council FPA W0017-14	Gortadruma Landfill,Gortadruma,Ballyha hill Co. 1 imerick Ireland		

PRTR# : W0106 | Facility Name : Bruscar Bhearna Teoranta | Filename : W0106_2014 EPA PRTR - 08.04.2015.xts | Return Year : 2014 |

Sheet : Treatment Transfers of Waste	ansfers of Waste						AER Returns Workbook	¥				13/4/2015 15:28	
			Quantity (Tonnes per Year)				Method Used		Haz Waste : Name and LeoncePennit No of Naxt Destination Facility Non Haz Waste : Name and LeoncePermit No of Recover(Diacoset	L <u>Haz Waste</u> : Address of Next Destination Facility Non Haz Waste, Address of RecoverDisenses	Name and License / Permit No. and Address of Final Recover / Disposer (HAZNOUS WASTE Over V	Actual Address of Final Destination Les, Final Recovery Ubiposal Sia Lua y anon re www.ene	1
Transfer Destination	European Waste Code	Hazardous		Description of Waste	Waste Treatment Operation	ant on M/C/E	Waste Treatment Operation M/C/E Method Used	Location of Treatment			(1940)		
Within the Country 19 12 12	19 12 12	No	1483.5 G	1483.5 General Waste - Landfill	ы	Σ	Weighed	Indaver Irel Offsite in Ireland W0167-02	Indaver Ireland, EPA Licence W0167-02	Indaver Ireland,EPA Licence Carranstown ,Duleek,County W0167-02 MeathIreland			
Within the Country	19 12 12	No	41607.74 G	41607.74 General waste - for export	R1	¥	Weighed	Offsite in Ireland W0167-02	Indaver Ireland, EPA Licence W0167-02	Indaver Ireland, EPA Licence Carranstown , Duleek, County W0167-02 MeathIreland			
Within the Country	20 01 08	No	285.82 0	285.82 Compostable Material - Food Waste	R3	¥	Weighed	Offsite in Ireland	Offsite In Ireland Envirogrind Ltd,WP4	Donegal Road,Pettigo,Co. DonegalIreland Glen Abbev			
Within the Country 20 01 11	20 01 11	No	1.24 C	1.24 Clothing/Textiles	R12	Σ	Weighed	Offsite in Ireland	Textile Recycling Ltd.Permit Offsite in Ireland Number WPR-014				
									Global Material Recycling (Electrical Waste Management Site),Licence	648 Jordanstown Drive Greenogue Rathcoole Co. Dublin ,Greenogue Rathcoole Co. Dublin		648 Jordanstown Drive	
Within the Country 20 01 35	20 01 35	Yes	40.82 S	40.82 Scrap Electronics - Mixed	R4	Σ	Weighed	Offsite in Ireland	Number WFP-DS-090012- 01	Rathcoole Co. Dublin ,Co. Dublin ,Ireland	ó	Greenogue ,Rathcoole ,Co. Dublin ,Ireland	
Within the Country	20 03 01	No	215.18 B	215.18 Baled and wrapped waste for export	R	¥	Weighed	Offsite in Ireland	Quality Recycling Ltd,WTP- TS-12-0002-01 Ballinrobe Waste	Ballytynch ,Carrick On Suir,Co Tipperary,Ireland			
Within the Country	20 03 01	No	45.64 m	45.64 mixed municipal waste	ы	Σ	Weighed	Offsite In Ireland	Disposal,WFP-MO-12-M0- 0024-01	Knockglass ,Ballinrobe ,Co MAYOIreland			
Within the Country 19 12 04		No	24.5 M	24.5 Mixed Coloured Plastic Bags (JAZZ Plastic) R12	R12	Σ	Weighed	offsite in Ireland	Boost Recycling (Broker),IRE/G082/15	41 Swarmam Rd , burweil ,Cambridgeshire ,CB25 0AN,United Kingdom			
		* Select a row by	double-clicking the	* 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 sumn Link to Waste Guidance	Link to previous years waste data Link to previous years waste sumary data & percentage change Link to Waste Guidance	& percentage (change										

| PRTR# : W0106 | Facility Name : Bruscar Bheama Teoranta | Filename : W0106_2014 EPA PRTR - 08.04.2015.xis | Return Year : 2014 |

Appendix C:

EMP & Schedule of Targets and Objectives 2015



Schedule of Targets and Objectives <u>&</u> Environmental Management Plan 2014 / 2015

Submitted March 2015

WASTE LICENCE REGISTRATION NO:	WL106-2
LICENSEE:	BRUSCAR BHEARNA TEORANTA (BARNA WASTE)
LOCATION OF ACTIVITY:	CARROWBROWNE, HEADFORD ROAD, CO. GALWAY.
ATTENTION:	MICHELLE McKIMM EPA - Office of Environmental Enforcement CASTLEBAR OFFICE
PREPARED BY:	MR. CAMPBELL FINNIE (Barna Waste)
CONTRIBUTIONS FROM:	MR. SEAN CURRAN (Managing Director/Facility Manager) MR. DAMIEN MONAGHAN (Operations Manager) MR DEREK BRIEN (Health & Safety Manager) MR. NIALL JORDAN (Deputy Facility Manager) MR. BERNARD FLAHERTY

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(Sales Manager)

INTRODUCTION

As a requirement of Waste Licence WL106-2 Barna Waste requires to have available a Schedule of Targets and Objectives as stated in condition 2.3.2 of our Waste Licence which states:-

"The objectives shall be specific and measurable. The Schedule shall address a five year period as a minimum. The schedule shall include a time scale for achieving the objectives and targets and shall comply with any other written guidance issued by the Agency."

This report was initially submitted on 18th December 2001 and has been updated on an annual basis since then.

The submission for 2015 has been kept consistent in format with previous submissions.

SECTION 1: Update on current list of Targets and Objectives

The next few pages of the report detail the Targets and Objectives that were set out by the company for 2014 and provides updates in detail as to exactly what actual progress was made for each action during the year and whether we achieved the targets or not:-

TARGET /		Completion	Current	Comment
OBJECTIVE	Owner	Completion Target	Status	Comment
Implement management systems and get certification to ISO 9001 and ISO 18001 standards	Facility Manager	Q3 2014	Ongoing	The Quality and Health & Safety Management Systems have been devised and are currently awaiting pre-audit by the NQA. Pre-audit scheduled for May 2015.
EMS system – ensure current ISO 14001 accreditation is maintained and the system further developed in 2014	Facility Manager	Q3 2014	Complete	Company successfully retained 14001 creditation during this year
Attain full Agency and TFS approval for the baling, wrapping and export of MSW material for recovery as opposed to disposal in Ireland	Operations Manager Transport Manager Facility Manager	Q2 2014	Complete	The company successfully submitted a proposal to the Agency which was approved and has made several successful TFS shipments from this process during 2014
Fully redevelop and reconstruct the facility picking station to make it more modern, add additional throughput and reduce overall operating costs of the sorting process	Operations Manager Facility Manager Managing Director	Q3 2014	Complete	During 2014 a new Optical Sorting line was installed which has enhanced throughput levels on the picking line. This new line was part of the companies ongoing investment in the picking line.
Devise plan and tonnage model to ensure the composting facility is capable of accepting and processing 20,000 tonnes of material per annum running at it's full capacity / potential Implement a fully	Operations Manager Facility Manager CEO Managing	Q2 2014 Q2 2014	Ongoing Ongoing	The company achieved significant growth in compost last year going from 10,000 tonnes to 14,500 tonnes throughput and plan further growth during 2015 to reach close to maximum capacity Details of the MBT
approved and licenced MBT process which meets the conditions of the EPA and is approved	Director Facility Manager	~~ 2011	0.120.115	proposal have been fully submitted to the Agency and have been discussed in detail with them. Barna

as part of the current licence				Waste have committed to completing an odour
				improvement programme in the composting plant
				and on completion the Agency will approve plans
				for the MBT process. This
				is planned for completion by end of Q2 2015.
Develop the area adjacent	Managing	Q2 2014	Complete	This process was approved
to the site civic amenity	Director			by the Agency following a successful written
area into a storage area for the baled and wrapped	Facility			submission and is now
MSW to reduce the fire	Manager			being used to store bales in
risk of inside storage.				an outside storage location.
Construction must be carried as per EPA				
approval when granted.				
Roll out twin pack	Transport	Q3 2014	Ongoing	Excellent progress was
collection vehicles in all	Manager			made on this during 2014.
areas to reduce carbon footprint and increase the				The company now has up to 8 twin pack vehicles out
efficiency of the				for collection each day and
collection phase of our				will develop this up to 12
operation				by the end of 2015 with
Increase pay by weight	Management	Q3 2014	Complete	continued investment.
	-	Q3 2014	Complete	The company have
capability across all fleet	Team			implemented pay by
capability across all fleet and implement a system	(All)			implemented pay by weight options in most
and implement a system that offers capability to				weight options in most areas where it is applicable
and implement a system that offers capability to run from the 'back of				weight options in most areas where it is applicable during 2014 and have a
and implement a system that offers capability to run from the 'back of truck' through to				weight options in most areas where it is applicable during 2014 and have a fleet in place equipped to
and implement a system that offers capability to run from the 'back of				weight options in most areas where it is applicable during 2014 and have a
and implement a system that offers capability to run from the 'back of truck' through to 'invoicing'	(All)			weight options in most areas where it is applicable during 2014 and have a fleet in place equipped to handle pay by weight customers with weighing equipment on the vehicles.
and implement a system that offers capability to run from the 'back of truck' through to 'invoicing' Route optimisation –	(All) Transport	Q3 2014	Ongoing	weight options in most areas where it is applicable during 2014 and have a fleet in place equipped to handle pay by weight customers with weighing equipment on the vehicles. The company implement a
and implement a system that offers capability to run from the 'back of truck' through to 'invoicing' Route optimisation – continue to review all	(All)	Q3 2014	Ongoing	weight options in most areas where it is applicable during 2014 and have a fleet in place equipped to handle pay by weight customers with weighing equipment on the vehicles. The company implement a Special Project in 2014 to
and implement a system that offers capability to run from the 'back of truck' through to 'invoicing' Route optimisation – continue to review all commercial and domestic	(All) Transport	Q3 2014	Ongoing	weight options in most areas where it is applicable during 2014 and have a fleet in place equipped to handle pay by weight customers with weighing equipment on the vehicles. The company implement a Special Project in 2014 to review it's route
and implement a system that offers capability to run from the 'back of truck' through to 'invoicing' Route optimisation – continue to review all commercial and domestic collection routes to ensure maximum	(All) Transport	Q3 2014	Ongoing	weight options in most areas where it is applicable during 2014 and have a fleet in place equipped to handle pay by weight customers with weighing equipment on the vehicles. The company implement a Special Project in 2014 to review it's route optimization. A template has been defined to
and implement a system that offers capability to run from the 'back of truck' through to 'invoicing' Route optimisation – continue to review all commercial and domestic collection routes to ensure maximum potential is achieved from	(All) Transport	Q3 2014	Ongoing	weight options in most areas where it is applicable during 2014 and have a fleet in place equipped to handle pay by weight customers with weighing equipment on the vehicles. The company implement a Special Project in 2014 to review it's route optimization. A template has been defined to monitor all routes and this
and implement a system that offers capability to run from the 'back of truck' through to 'invoicing' Route optimisation – continue to review all commercial and domestic collection routes to ensure maximum	(All) Transport	Q3 2014	Ongoing	weight options in most areas where it is applicable during 2014 and have a fleet in place equipped to handle pay by weight customers with weighing equipment on the vehicles. The company implement a Special Project in 2014 to review it's route optimization. A template has been defined to monitor all routes and this will be rolled out fully
and implement a system that offers capability to run from the 'back of truck' through to 'invoicing' Route optimisation – continue to review all commercial and domestic collection routes to ensure maximum potential is achieved from all routes	(All) Transport	Q3 2014 Q2 2014		weight options in most areas where it is applicable during 2014 and have a fleet in place equipped to handle pay by weight customers with weighing equipment on the vehicles. The company implement a Special Project in 2014 to review it's route optimization. A template has been defined to monitor all routes and this
 and implement a system that offers capability to run from the 'back of truck' through to 'invoicing' Route optimisation – continue to review all commercial and domestic collection routes to ensure maximum potential is achieved from all routes Develop a list of Top 100 companies in Connacht in 	(All) Transport Manager		Ongoing Complete	weight options in most areas where it is applicable during 2014 and have a fleet in place equipped to handle pay by weight customers with weighing equipment on the vehicles. The company implement a Special Project in 2014 to review it's route optimization. A template has been defined to monitor all routes and this will be rolled out fully during 2015. This top 100 list was produced and contact has
 and implement a system that offers capability to run from the 'back of truck' through to 'invoicing' Route optimisation – continue to review all commercial and domestic collection routes to ensure maximum potential is achieved from all routes Develop a list of Top 100 companies in Connacht in terms of revenue and 	(All) Transport Manager Sales			weight options in most areas where it is applicable during 2014 and have a fleet in place equipped to handle pay by weight customers with weighing equipment on the vehicles. The company implement a Special Project in 2014 to review it's route optimization. A template has been defined to monitor all routes and this will be rolled out fully during 2015. This top 100 list was produced and contact has been made with all
 and implement a system that offers capability to run from the 'back of truck' through to 'invoicing' Route optimisation – continue to review all commercial and domestic collection routes to ensure maximum potential is achieved from all routes Develop a list of Top 100 companies in Connacht in terms of revenue and implement a process to 	(All) Transport Manager Sales			weight options in most areas where it is applicable during 2014 and have a fleet in place equipped to handle pay by weight customers with weighing equipment on the vehicles. The company implement a Special Project in 2014 to review it's route optimization. A template has been defined to monitor all routes and this will be rolled out fully during 2015. This top 100 list was produced and contact has been made with all companies with a varying
 and implement a system that offers capability to run from the 'back of truck' through to 'invoicing' Route optimisation – continue to review all commercial and domestic collection routes to ensure maximum potential is achieved from all routes Develop a list of Top 100 companies in Connacht in terms of revenue and implement a process to establish contact with all 	(All) Transport Manager Sales			weight options in most areas where it is applicable during 2014 and have a fleet in place equipped to handle pay by weight customers with weighing equipment on the vehicles. The company implement a Special Project in 2014 to review it's route optimization. A template has been defined to monitor all routes and this will be rolled out fully during 2015. This top 100 list was produced and contact has been made with all companies with a varying degree of success. The list
and implement a system that offers capability to run from the 'back of truck' through to 'invoicing' Route optimisation – continue to review all commercial and domestic collection routes to ensure maximum potential is achieved from all routes Develop a list of Top 100 companies in Connacht in terms of revenue and implement a process to	(All) Transport Manager Sales			weight options in most areas where it is applicable during 2014 and have a fleet in place equipped to handle pay by weight customers with weighing equipment on the vehicles. The company implement a Special Project in 2014 to review it's route optimization. A template has been defined to monitor all routes and this will be rolled out fully during 2015. This top 100 list was produced and contact has been made with all companies with a varying
and implement a system that offers capability to run from the 'back of truck' through to 'invoicing' Route optimisation – continue to review all commercial and domestic collection routes to ensure maximum potential is achieved from all routes Develop a list of Top 100 companies in Connacht in terms of revenue and implement a process to establish contact with all 100 in relation to waste /	(All) Transport Manager Sales			weight options in most areas where it is applicable during 2014 and have a fleet in place equipped to handle pay by weight customers with weighing equipment on the vehicles. The company implement a Special Project in 2014 to review it's route optimization. A template has been defined to monitor all routes and this will be rolled out fully during 2015. This top 100 list was produced and contact has been made with all companies with a varying degree of success. The list is reviewed quarterly to

				customers.
Traffic Management –	H&S	Q2 2014	Ongoing	A new traffic management
review the traffic	Manager	L = 2.2.		plan was implemented
management plan for the	U			during Q3 2014 and has
entire facility and	Operations			vastly improved traffic
implement a new plan	Manager			movements on site.
with no reversing	-			However further
vehicles and separation	Facility			improvement can still be
from vehicles and people	Manager			made and this will
				continue as a goal for
				2015.
Site Visits / Tours –	Ongoing	Q1 2014	Incomplete	Due to H&S concerns the
continue the visits / tours				company ceased the
to the site by local schools to increase				hosting of site visits during 2014.
promotion of the site and				2014.
recycling in general.				
Develop a company	Sales	Q1 2014	Complete	The company now has a
presentation which	Manager		1	presentation in place and is
focuses on educating				actively working with local
schools on recycling and				schools on an ongoing
conduct a programme of				basis to promote recycling.
presentations with local				The presentation is
schools				specifically geared towards
	Organstiana	02 2014	Complete	schools.
Housekeeping Litter controls – continue the	Operations Manager	Q2 2014	Complete	This process continue to be in place and a Litter
process of assigning a	Manager			Manager is in place on
member of each				each shift on site.
Production Shift to litter				Temporary fencing has
duty as part of site				also been introduced for
housekeeping and look at				periods of windy weather
ways of developing this				
system further to reduce				
litter at source				
Housekeeping Dust	Operations	Q1 2014	Complete	Roadsweeping is
control – continue the	Manager			scheduled and carried out
process of DAILY	Facility			on a daily basis on site
roadsweeping at the site to maintain / improve on	Facility Manager			throughout the year.
external dust levels in	Iviallagel			
areas where traffic can				
rise dust in periods of dry				
weather				
Training - put another	Facility	Q3 2014	Incomplete	This was not completed
member of staff through	Manager			during 2014 and is
the FAS Waste				rescheduled for 2015.
Management Course				
Environmental Targets –	Facility	Q4 2014	Ongoing	This process is ongoing.
continue to develop the	Manager			The company have made
energy and power saving	Operations			switches to energy saving
programmes within the	Operations			lighting throughout the site

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	,			· · · · · · · · · · · · · · · · · · ·
waste transfer station and all areas of the site to reduce the usage during both operational and non operating hours	Manager			and have numerous smaller programmes going on including switching off all electrical equipment at night etc. Improvements can always be made and we will continue this as a programme for 2015.
Environmental Targets – continue to review the Irish recycling market to identify possible recycling options for various materials within the Country to reduce our carbon footprint	Facility Manager	Ongoing	Ongoing	This is always a goal for us and Irish recyclers are always given priority over foreign brokers when it comes to bidding for material on site.
Composting - finalise a plan to introduce brown bins to all our domestic customers. Training programmes for the domestic customer should be developed as part of this project.	Sales Manager	Q2 2014	Ongoing	The company have rolled out brown bins now to around 30% of our domestic customers and this will continue during 2015. We are on target to meet all required deadlines in terms of brown bin implementation.
Operation Controls in relation to machine maintenance – continue to develop the maintenance programmes for all operational equipment (stationary and mobile plant) and ensure regular checks are carried out to improve performance / reliability. Records of all inspections should be kept on file and reviewed on a regular basis.	Operations Manager Health & Safety Manager	Ongoing	Complete	An extensive programme of machine maintenance has been implemented and is managed by the company H&S Officer. All records are kept to back-up the maintenance of equipment on site.
Permitted site – once this site is in a proper condition prepare a plan for the EPA with a proposal / application to have this site integrated into the EPA licence	Facility Manager Operations Manager Managing Director	Q3 2014	Incomplete	The company did not complete this working during 2014 and has not yet developed a business plan for this permitted site.
Storage Hub / Car Park – as a long term goal continue to look for a suitable location which	Management Team (All)	Q4 2014	Ongoing	The company are still going to the planning process in relation to this new facility. An appeal

will allow a compound to be built off site to store / control empty bins or skips. This will not be a waste storage area it will be solely for storing the company's stock of empty skips or bins awaiting distribution				was lodged to our initial planning application and we await the result of this appeal. As soon as approval is granted a budget is in place to complete the works.
Training – continue to support all staff training to ensure we meet health and safety and other	Management Team (All)	Ongoing	Complete	All training scheduled for 2015 was completed with the exception of the FAS Waste Management
compliance standards as well as develop our workforce				Course.

SUMMARY of 2014 PERFORMANCE

The company performed very well towards achieving its list of targets and objectives for 2014 and we achieved most of our major goals that we set ourselves or in the least made progress on them.

Some examples of the major goals accomplished during 2014 are below:

- The retention and re-awarding of our ISO14001 accreditation was vitally important for the future of the company
- The initial progress made towards achieving ISO 9001 and 18001 accreditation by implementing an integrated quality / environmental and health & safety management system
- The full implementation of our new MSW processing area on site and subsequent approvals from the Agency to produce 19 12 12 material and to store the material is a controlled manner outside of the company buildings
- Upgrade of the company picking station to incorporate a new optical sorting machine
- Significant increase in compost intake during 2014 now has the facility running at 75% capacity with a two year period
- Implementation and construction with Agency approval in advance of the new MSW bale storage area outside at the Galway facility
- Successful deployment of more twin pac vehicles throughout our routes
- Improvement in traffic management standards on site making it a safer place
- Continued work with local schools to develop relationships with young people on the positive impacts of recycling and how to manage waste

Overall 2014 was a very positive year. This represented the first full year working under the new Management Team which had be put in place as a result of our Examinarship process in 2013. Through setting new control measures and systems the company have been able to produce positive financial results and well as achieve most of it's operational goals. The company now has a much more structured and planned approach in order to set goals and objectives and the introduction of weekly management meetings which have significantly improved communication and management of key projects within the company.

Any goals not achieved or only partly achieved in 2014 will be included again for 2015 as they are still important to the companies future plans

SECTION 2: New list of Targets and Objectives for 2015

New Targets & Objectives for 2015

The targets and objectives for 2015 are listed below. As advised by the EPA previously we have tried to identify actions that can be easily measured and also tried to ensure that most of the actions are related to issues outwith our Waste Licence.

Any targets not achieved during 2014 have automatically been included again below. Targets / actions which are relevant on an ongoing basis but are deemed important enough to keep being included in this document are also listed. We feel it important to document them even although they will permanently be on the document to ensure focus is kept on achieving these targets.

Since our new Investor came on board in 2014 the business has gone through a period of review and is now in a position where we have defined major areas that need to be developed to ensure the business can run successfully for many years to come. Therefore this year we have developed a shorter list of objectives but all are significant projects that will have a major impact on the future of the company. These targets have been fully agreed by the Management Team at the company and everyone on the team supports the projects listed below.

The company operates based on five fundamentals which are the cornerstone of our day to day business activities. The fundamentals are:

Safety Compliance Productivity Preventative Maintenance Housekeeping

These fundamentals are key to everything we implement or manage in our business and as a result the following new targets and objectives have been set for 2015:-

TARGET / OBJECTIVE	Owner	Completion	Current
OPERATIONS - Implement integrated	Facility	Target Q2 2015	Status OPEN
management systems to incorporate Quality,	Manager /	Q2 2013	OFEN
Environment and Health / Safety and get	Health & Safety		
certification to ISO 9001, ISO 14001 and ISO	Manager		
18001 standards	ivialiager		
OPERATIONS - Devise plan and tonnage model to	Operations	Q4 2015	OPEN
ensure the composting facility is capable of	Manager		
accepting and processing 20,000 tonnes of material	C C		
per annum running at it's full capacity / potential	Facility		
	Manager		
	CEO		
OPERATIONS - Material Sorting Facility (picking	Operations	Q3 2015	OPEN
station) – integrate more optical sorting units into	Manager /		
the system to further enhance picking capabilities	Managing		
	Director		
OPERATIONS - Submit a full application and	Managing	Q3 2015	OPEN
obtain approval for a licenced MBT process which	Director		
meets the conditions of the EPA and is approved as			
part of the current licence	Facility		
	Manager		0.0.0.0.1
OPERATIONS – carry out a full review of all	Managing	Q3 2015	OPEN
groundworks and hardstanding areas on site and	Director		
implement a programme for maintenance /	Facility		
improvement	Facility Manager		
OPERATIONS – develop a strategy / policy for	Management	Q4 2015	OPEN
phasing out older plant and machinery around the	Team	Q4 2013	OTEN
site and introducing fresh newer equipment	(All)		
HOUSEKEEPING – implement a full cleaning	Operations	Q2 2015	OPEN
schedule which will see maintenance of the internal	Manager /	222010	
sheeting panels in all sheds on a weekly basis. This	Health & Safety		
will improve housekeeping and significantly reduce	Manager		
fire risk.	C		
IT SYSTEMS – implement a programme to	IT Manager	Q4 2015	OPEN
synchronise weighing data across all 4 Barna			
Recycling Facilities with real time data and			
reporting			
TRANSPORT - Roll out twin pack collection	Transport	Q3 2015	ONGOING
vehicles in all areas to reduce carbon footprint and	Manager		
increase the efficiency of the collection phase of our			
operation TPANSPOPT Ingrass pay by weight capability	Monogoment	04 2015	ONGOING
TRANSPORT - Increase pay by weight capability	Management Team	Q4 2015	UNUUINU
across all fleet and implement a system that offers capability to run from the 'back of truck' through to	(All)		
'invoicing'			
TRANSPORT - Route optimisation – continue to	Special Projects	Q2 2015	OPEN

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			1
review all commercial and domestic collection routes to ensure maximum potential is achieved	Manager		
from all routes			
HEALTH & SAFETY - Traffic Management –	H&S Manager	Q3 2015	ONGOING
review the traffic management plan for the entire		20 2010	
facility and implement a new plan with no reversing	Operations		
vehicles and separation from vehicles and people	Manager		
	C		
	Facility		
	Manager		
TRAINING - put another member of staff through	Facility	Q4 2015	OPEN
the FAS Waste Management Course	Manager		
ENIVORNMENTAL – continue to develop the	Facility	Q4 2015	ONGOING
energy and power saving programmes within the	Manager		
waste transfer station and all areas of the site to			
reduce the usage during both operational and non	Operations		
operating hours ENVIRONMENTAL – continue to review the Irish	Manager Facility	Ongoing	ONGOING
recycling market to identify possible recycling	Manager	Oligoling	UNGOING
options for various materials within the Country to	Ivialiagei		
reduce our carbon footprint			
ENVIRONMENTAL – implement an improvement	Facility	Q2 2015	OPEN
/ monitoring programme on site for the management	Manager		
of odour during 2015 that will result in the	C		
elimination of any potential odour issues at the	Operations		
facility	Manager		
	Managing		
	Director	00.001.5	ODENI
SALES - finalise a plan to introduce brown bins to	Sales Manager	Q2 2015	OPEN
all our domestic customers. Training programmes for the domestic customer should be developed as			
part of this project.			
BUSINESS - Permitted site – once this site is in a	Facility	Q3 2015	OPEN
proper condition prepare a plan for the EPA with a	Manager	Q5 2015	OTLIV
proposal / application to have this site integrated	manager		
into the EPA licence	Operations		
	Manager		
	-		
	Managing		
	Director		
BUSINESS - Storage Hub / Car Park – as a long	Management	Q3 2015	OPEN
term goal continue to look for a suitable location	Team (All)		
which will allow a compound to be built off site to			
store / control empty bins or skips. This will not be			
a waste storage area it will be solely for storing the company's stock of empty skips or bins awaiting			
distribution			
TRAINING – continue to support all staff training	Management	Q4 2015	OPEN
to ensure we meet health and safety and other	Team (All)	XT 2013	
compliance standards as well as develop our			
workforce			
	Domont for 2012 Dos		

TRAINING – carry out chemical awareness training for compost operators	Health & Safety Manager	Q2 2015	OPEN
TRAINING – introduce daily safety huddles on site	Health & Safety Manager	Q2 2015	OPEN
TRAINING – introduce a programme of regular tool box talks within key areas of the business	Health & Safety Manager	Q1 2015	ONGOING
throughout 2015	Winnager		

Environmental Management Plan

Condition 2.3.2.2 of our Waste Licence (WL106-2) requires us to submit an Environmental Management Plan. The aim of this EMP is to provide a timescale for achieving the schedule of targets and objectives and the name of the people responsible for implementing these actions. As per last year's submission we are submitting this document as a joint document to cover the requirements for both the EMP and the Schedule of Targets and Objectives. The table above outlines the company's goals and who is responsible for implementing them during 2015 and these goals cover operational, environmental, health and safety issues and any other related activities which we think need some improvement.

We believe the targets set out above are the key elements to the company progressing again in 2015 and completion of the targets set above will see us improve our facility and our business. Targets have been kept measurable and where possible are unrelated to conditions of our waste licence but clearly show the company's desire for continual improvement in all aspects of the business.

In summary of the table above the targets and goals set for 2015, if achieved will see us achieve the following:

- Improve our Management Systems be getting ISO 9001 and 18001 approval
- Have an improved picking station / sorting line in place
- Have an increased fleet of twin pack vehicles on the road streamlining collections
- Be regularly producing volumes of mechanically treated 191212 material for export
- Have significantly increased volumes of food waste being managed / recycled on site
- Have an EPA approved process in place for MBT
- Have improved our odour control efficiency at the facility
- Be at the forefront of recycling companies educating schools on the benefits of recycling
- Have a fully developed business plan and strategy for our two permitted sites
- Have an improved staff on site who are fully trained to do their jobs safely
- Have a safer environment at the site by the introduction of a new traffic management plan
- Improved housekeeping procedures on site that will see long term sustainable improvement in housekeeping
- Improved IT systems with real time links between all Barna Waste sites

Barna Waste are happy with the contents of this document and believe the targets set out above for the new reporting year are relevant to the overall goals of the company.

New targets can / will be added to this document as the year progresses or at the request of the EPA.

Management Support

Barna Waste submit this document which as required by our EPA licence outlines progress made against all the targets set out for 2014 and redefines new targets and objectives for 2015. This document has been reviewed by the Management Team and all members of the team have given input into the areas being specifically targeted for 2015. The document has the full agreement of all of our Management Team.

We believe the targets / objectives cover all aspects of our business and will ensure the company develops in all aspects during 2015. The goal of continuous improvement / development of the site and our performance are the key factors in setting these targets.

Comments from the Agency on the content of the report are welcome and new targets can be added or changes made at their request if anything within the report is insufficient or inadequate.

Progress Reports

Any queries regarding progress against the targets and objectives set out above for 2015 can be requested from our Facility Manager at all times throughout the reporting period.

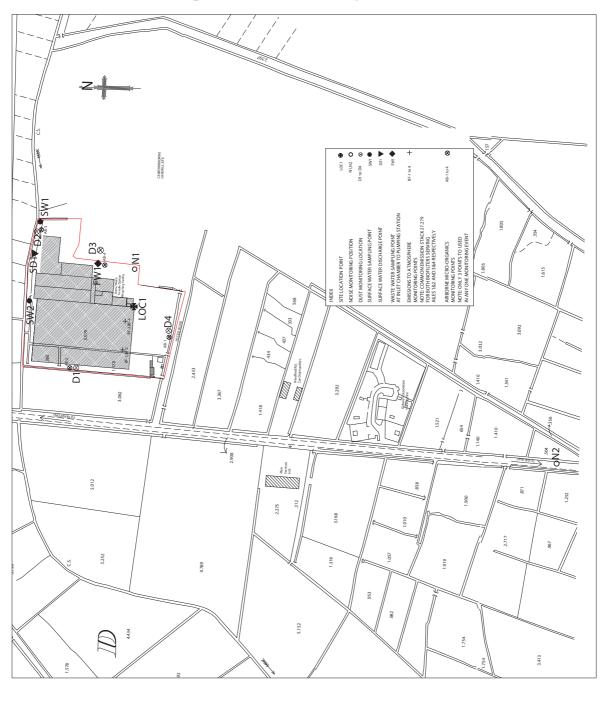
Copies of this report are available on request from the Barna Waste.

Next Submission

The next submission of this report is due to be submitted before 31st March 2016.

Appendix D:

Map of site monitoring locations





Appendix E:

Current Company Management Structure

