

ANNUAL

ENVIRONMENTAL

REPORT

REPORTING PERIOD: 1ST January 2012 – 31st December 2012

WASTE LICENCE

REGISTRATION NO: WL106-02

LICENSEE: BRUSCAR BHEARNA TEORANTA

(BARNA WASTE)

LOCATION OF ACTIVITY: CARROWBROWNE,

HEADFORD ROAD, CO. GALWAY.

ATTENTION: Michelle McKim

EPA, REGIONAL INSPECTORATE JOHN MOORE ROAD, CASTLEBAR

CO. MAYO.

PREPARED BY:MR. CAMPBELL FINNIE

(Barna Waste)

CONTRIBUTIONS FROM: MR. SEAN CURRAN

(Managing Director/Facility Manager)

MR. DAMIEN MONAGHAN

(Operations Manager)

MR. CORMAC O'DONNELL

(Transport Manager) MR. NIALL JORDAN (Deputy Facility Manager)

EMERALD ENVIRONMENTAL SERVICES COMPLETE LABORATORY SOLUTIONS (CLS)

P.J. TOBIN CONSULTING ENGINEERS

DECLARATION:

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

Campbell Finnie

1.0 Introduction

The following is the Annual Environmental Report (AER) for **Barna Waste** for the period **1**st **January 2012 to 31st December 2012** 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 Waste 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 WASTE)

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: _		Date:
	FACILITY MANAGER	
Signed:		Date:
_	MANAGING DIRECTOR	

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 Waste 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. C&D materials are currently being processed outside of the facility because of the space required by the machinery. 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 2010. 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 DAFF. The process is currently in its validation stage under the supervision of DAFF.
- 6. 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. Only the non recyclable fractions are then transferred into our own vehicles for landfill disposal
 - 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. 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 13 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 and 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.
- 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.
- Metal recycling the processing of metal products is carried out within the
 composting building in a dedicated area. We have a grab machine and baler in this
 area specifically used for baling this material into a form that can be easily sold as
 scrap to the UK or Irish metal markets. 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 Waste 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:
 - o end of life tyres, glass, batteries, industrial plastics, agricultural plastics, plasterboard

This section of the report was intended to give the reader a summary of the material types and the processing procedures used by Barna Waste during the reporting period. Any additional information required is available by contacting the company directly. Tours of the facility are available if arranged in advance.

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 Waste 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 Categories and Quantities acceptable at Transfer Station

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
TOTAL	166,000 tonnes

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 – 2012)

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 results for the current reporting year (2012) AND ALL PREVIOUS years are included therefore results for reporting periods 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011 and the current reporting period of 2012 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.

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 Waste 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.

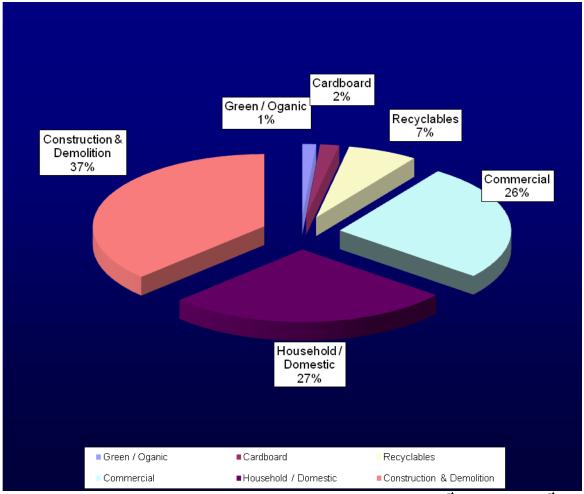


Figure 2.4.2: Percentage Breakdown of Waste Received on site from 1st January – 31st December 2002

Table 2.4.3: Total Wastes Outgoing 1st January 2002 – 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	

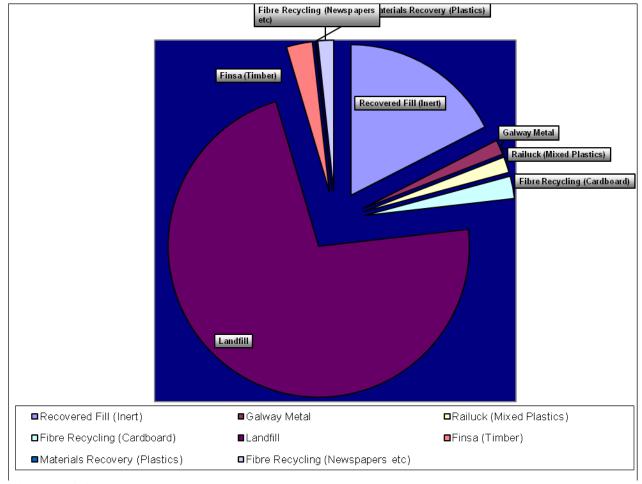


Figure 2.4.4: Percentage Breakdown of Waste outgoing from 1st January 2002 to 31st December 2002

Waste In 2003

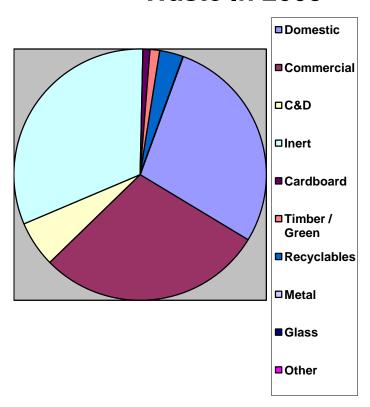


Figure 2.4.5: Breakdown of Waste Received on site from 1st January – 31st December 2003

WASTE TYPE	WASTE IN (tonnes per annum)
Domestic	20015.92
Commercial	20663.18
C & D	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

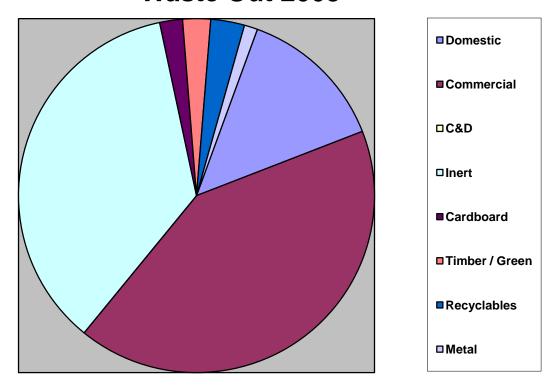


Figure 2.4.6: Breakdown of Waste going off site for Recovery or Disposal from $\mathbf{1}^{st}$ January – $\mathbf{31}^{st}$ December 2003

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

Waste In 2004

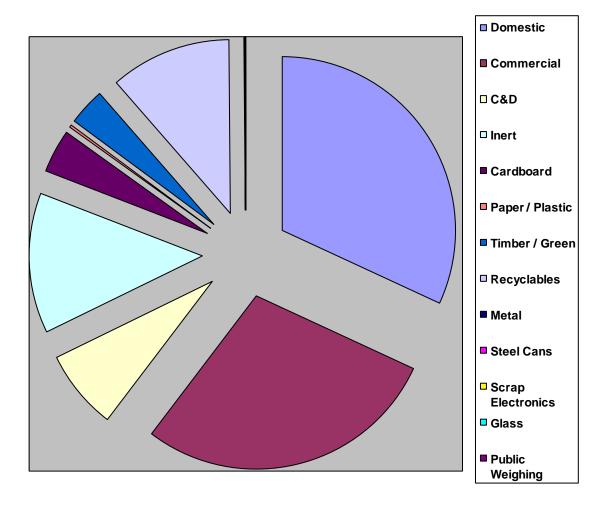


Figure 2.4.9: Breakdown of Waste Received on site from 1st January – 31st December 2004

WASTE TYPE	WASTE IN (tonnes per annum)
Domestic	19,796.62
Commercial	17,691.68
C & D	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 1^{st} January $2004 - 31^{st}$ December 2004

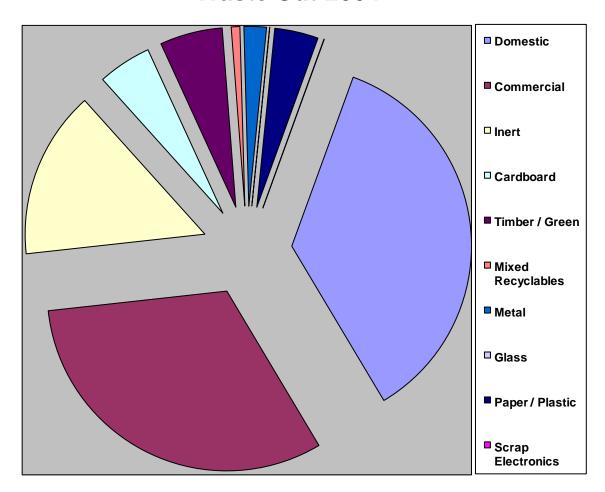


Figure 2.4.11: Breakdown of Waste going off site for Recovery or Disposal from $\mathbf{1}^{st}$ January – $\mathbf{31}^{st}$ December 2003

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 Waste also have Batteries collected by Returnbatt and send tyres as required to Crumb Rubber or to Crossmore Transport

Barna Waste 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

Waste In 2005

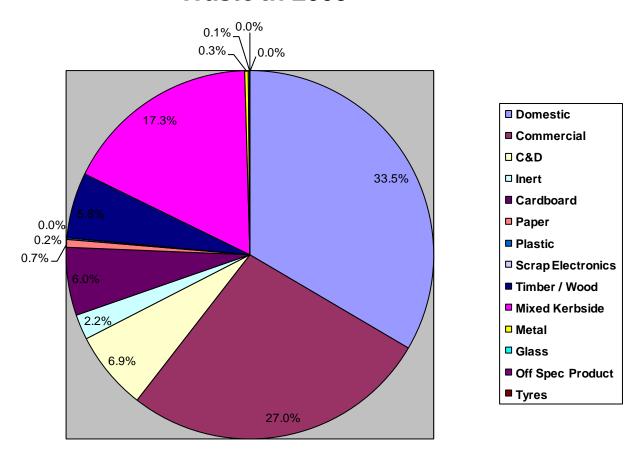


Figure 2.4.14: Breakdown of Waste Received on site from 1st January 2005 – 31st December 2005

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
EWC 170407 Metal	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 $\mathbf{1}^{st}$ January $\mathbf{2005} - \mathbf{31}^{st}$ December $\mathbf{2005}$

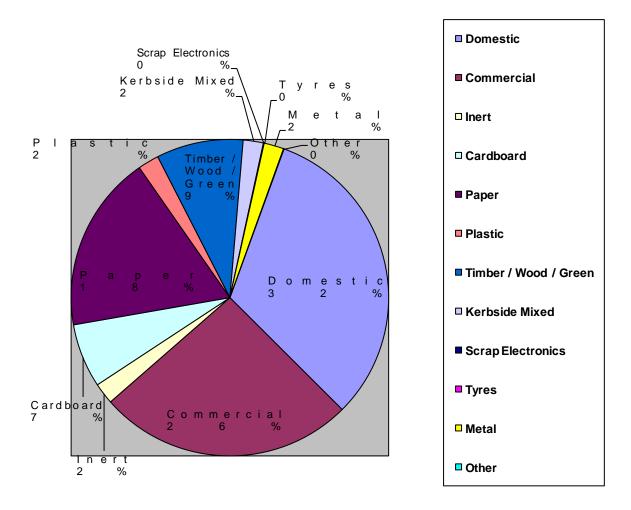


Figure 2.5.0: Breakdown of Waste going off site for Recovery or Disposal from 1st January 2005 – 31st December 2005

WASTE TYPE	WASTE OUT (tonnes per annum)
EWC 200301 Domestic	21593.80
EWC 200100 Commercial	17667.66
EWC 200202 Inert	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
EWC 160103 Tyres	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

2.5.2 Summary of Recycling Outlets used in 2005

Barna Waste 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 Waste 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

Table 2.5.3: Breakdown of recycling waste out details for 1st January – 31st December 2005

WASTE IN

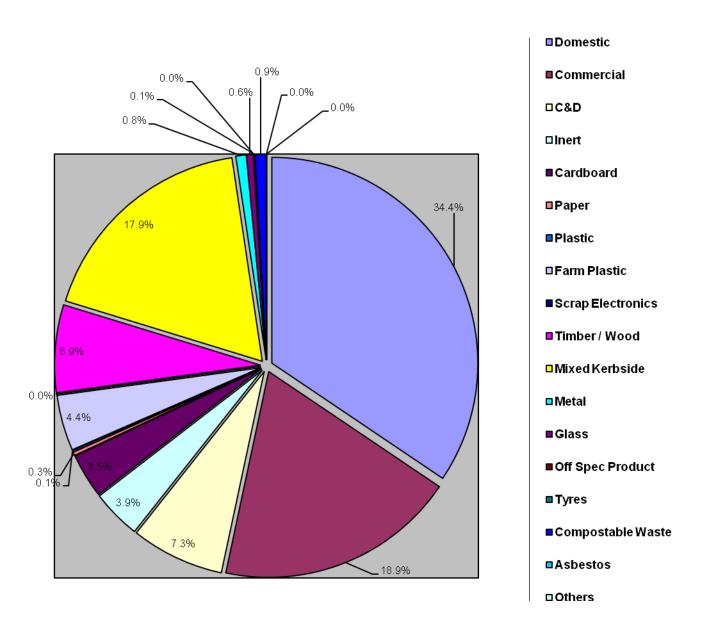


Figure 2.6.0: Breakdown of Waste Received on site from 1st January 2006 – 31st December 2006

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
EWC 170407 Metal	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	
EWC 160103 Tyres	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

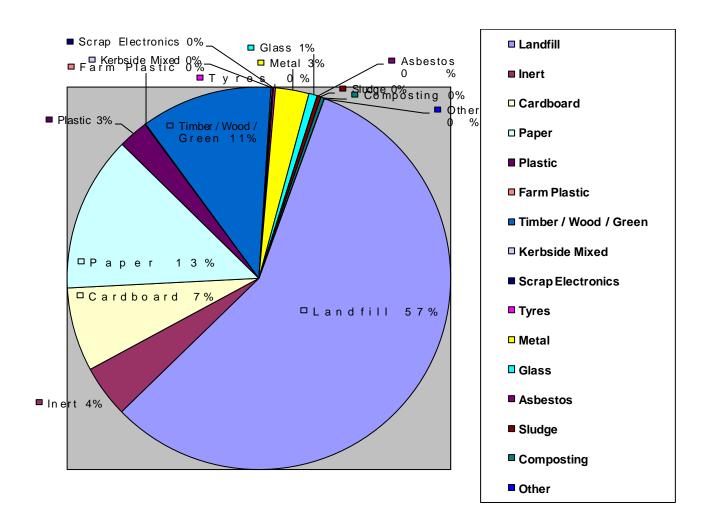


Figure 2.6.2: Breakdown of Waste going off site for Recovery or Disposal from 1^{st} January $2006 - 31^{st}$ December 2006

WASTE TYPE	WASTE OUT (tonnes per annum)
EWC 191212 Mechanically treated mixed	45754.84
waste for landfill (Commercial / Domestic)	
EWC 200202 Inert	3518.12
EWC 200101 Cardboard	5660.60
EWC 200101 Paper	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
EWC 160103 Tyres	130.64
EWC 170407 Metal	2267.10
EWC 200102 Glass	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

Breakdown of the recycling elements for 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%
EWC 200102 Glass	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 $\mathbf{1}^{st}$ January – $3\mathbf{1}^{st}$ December 2006

WASTE IN

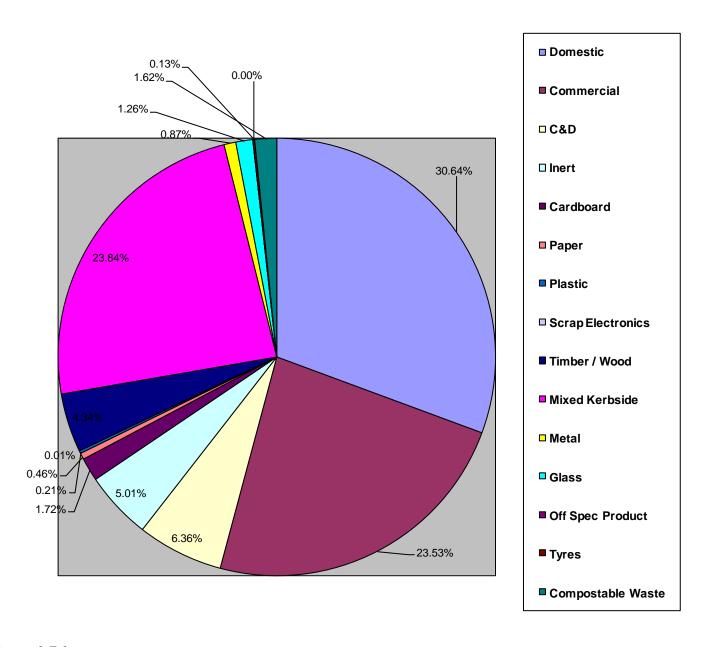


Figure 2.7.0: Breakdown of Waste Received on site from 1st January 2007 – 31st December 2007

Waste in for 2007: Table of quantities by waste type

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	28840.92
EWC 200100 Commercial	22150.64
EWC 170100 C & D	5988.48
EWC 200202 Inert	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	
EWC 160103 Tyres	120.96
TOTAL	94,131.27

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

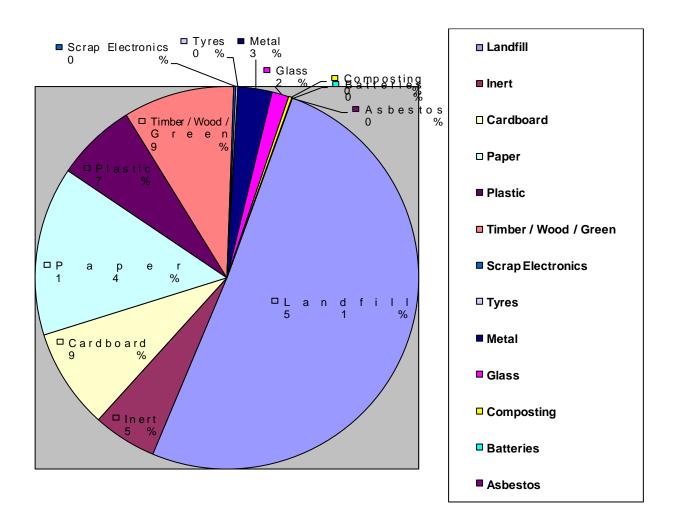


Figure 2.7.2: Breakdown of Waste going off site for Recovery or Disposal from 1^{st} January $2007-31^{st}$ December 2007

Waste out for 2007: Table of quantities by waste type

WASTE TYPE	WASTE OUT (tonnes per annum)
EWC 191212 Mechanically treated mixed	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
EWC 160103 Tyres	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

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)	
EWC 200202 Inert	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%
EWC 170407 Metal	2534.82	6%
EWC 200102 Glass	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 $\mathbf{1}^{st}$ January $\mathbf{2007} - \mathbf{31}^{st}$ December $\mathbf{2007}$

WASTE IN (2008)

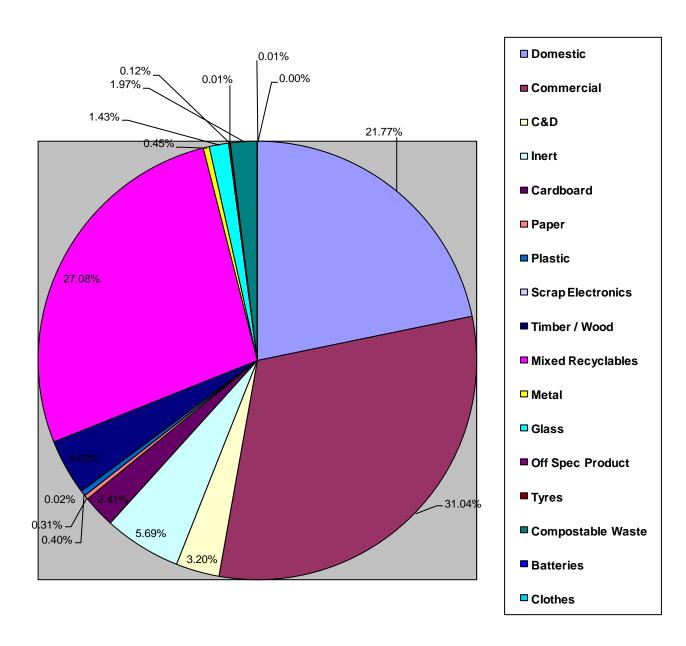


Figure 2.8.0: Breakdown of Waste Received on site from $\mathbf{1}^{st}$ January $\mathbf{2008} - \mathbf{31}^{st}$ December $\mathbf{2008}$

Waste in for 2008: Table of quantities by waste type

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	18539.17
EWC 200100 Commercial	26433.11
EWC 170100 C & D	2729.37
EWC 200202 Inert	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
EWC 170407 Metal	382.35
EWC 170202 Glass	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
EWC 160103 Tyres	100.18
TOTAL	85,160.23 TONNES

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

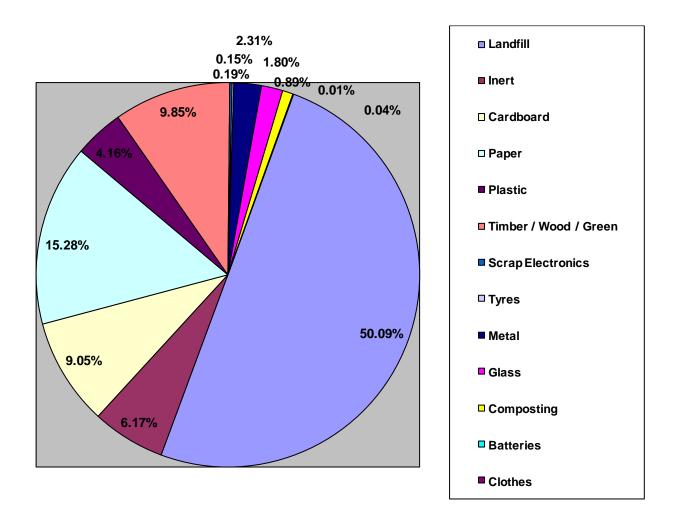


Figure 2.8.2: Breakdown of Waste going off site for Recovery or Disposal from 1^{st} January $2008-31^{st}$ December 2008

Waste out for 2008: Table of quantities by waste type

WASTE TYPE	WASTE OUT (tonnes per annum)
EWC 191212 Mechanically treated mixed	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
EWC 160103 Tyres	114.99
EWC 170407 Metal	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%
EWC 170407 Metal	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 $\mathbf{1}^{st}$ January $2008-3\mathbf{1}^{st}$ December 2008

WASTE IN (2009)

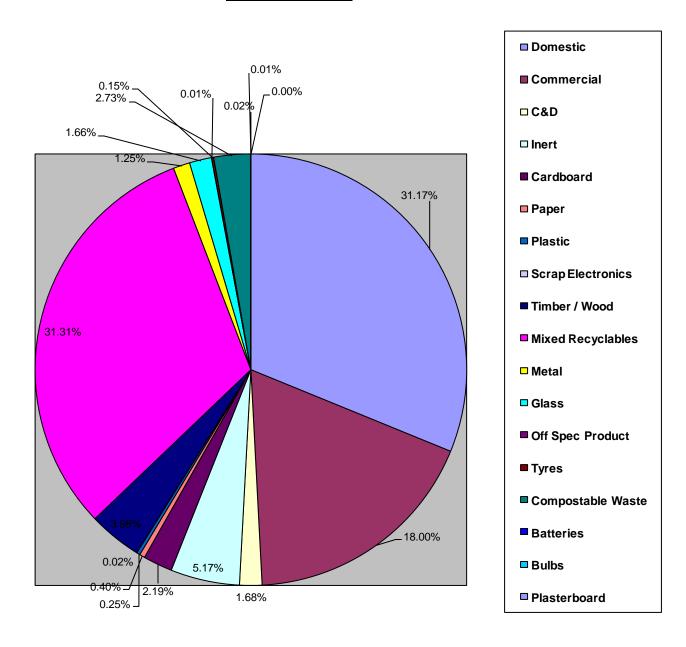


Figure 2.9.0: Breakdown of Waste Received on site from 1st January 2009 – 31st December 2009

Waste in for 2009: Table of quantities by waste type

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	22356.82
EWC 200100 Commercial	12905.46
EWC 170100 C & D	1202.76
EWC 200202 Inert	3708.53
EWC 200101 Cardboard	1570.58
EWC 200101 Paper	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

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

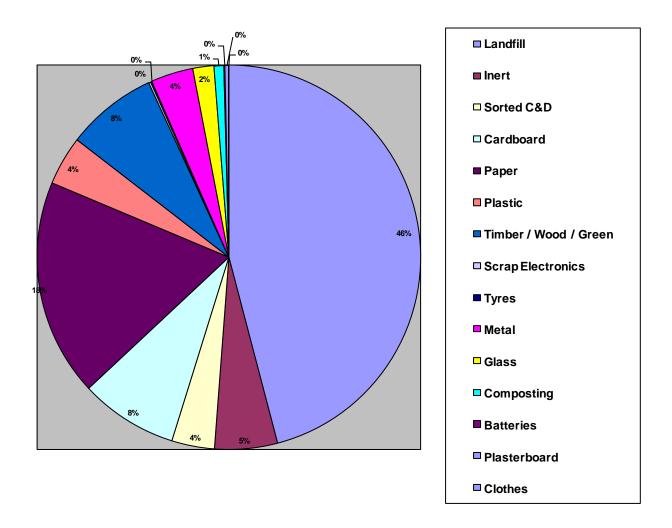


Figure 2.9.2: Breakdown of Waste going off site for Recovery or Disposal from 1^{st} January $2009-31^{st}$ December 2009

Waste out for 2009: Table of quantities by waste type

WASTE TYPE	WASTE OUT (tonnes per annum)
EWC 191212 Mechanically treated mixed	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
EWC 160103 Tyres	78.14
EWC 170407 Metal	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

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%
EWC 160103 Tyres	78.14	Less than 1%
EWC 170407 Metal	2496.44	7%
EWC 200102 Glass	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 1^{st} January $2009 - 31^{st}$ December 2009

WASTE IN (2010)

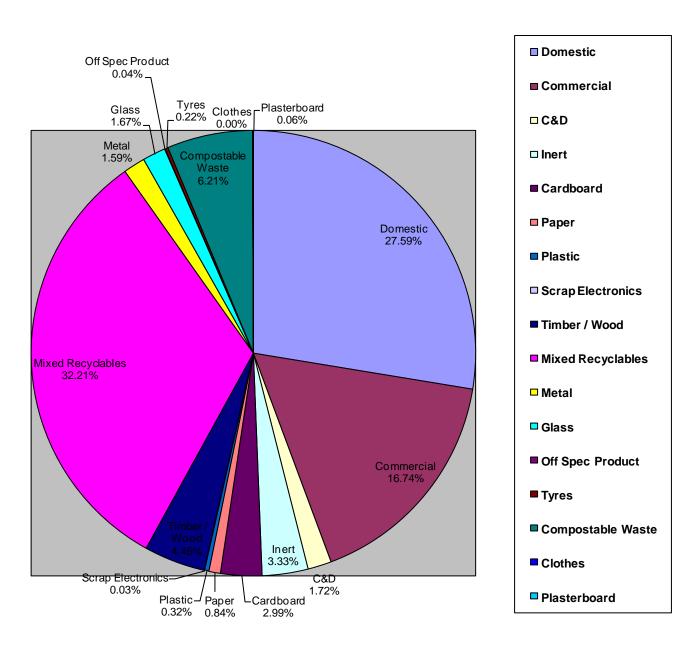


Figure 2.10.0: Breakdown of Waste Received on site from 1st January 2010 – 31st December 2010

Waste in for 2010: Table of quantities by waste type

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

Table 2.10.1: Total Wastes Incoming 1^{st} January $2010 - 31^{st}$ December 2010

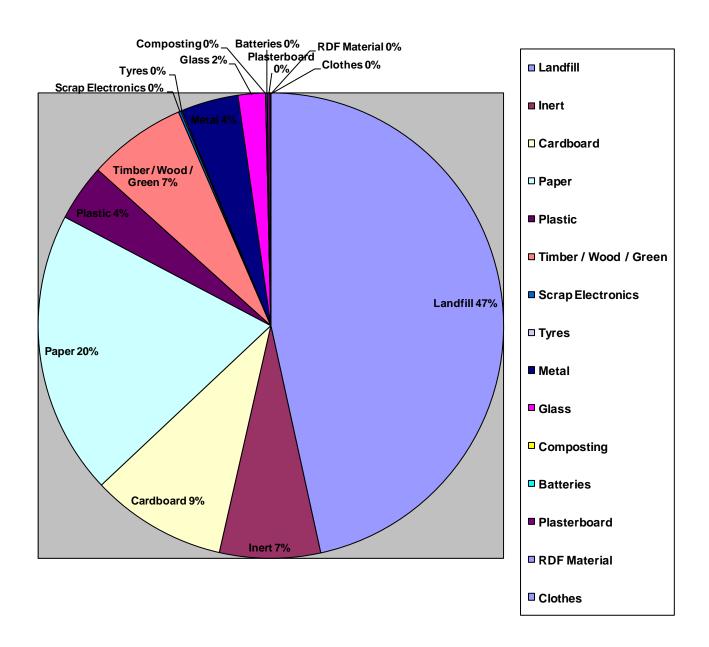


Figure 2.10.2: Breakdown of Waste going off site for Recovery or Disposal from 1^{st} January $2010-31^{st}$ December 2010

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 1st January 2010 – 31st December 2010

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

Waste In / Out Reports for 2011

WASTE IN (2011)

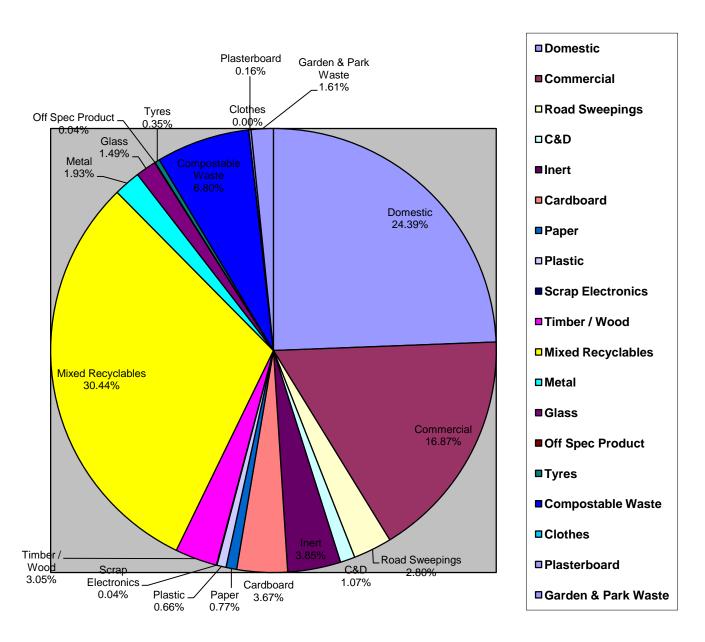


Figure 2.11.0: Breakdown of Waste Received on site from 1st January 2011 – 31st December 2011

Waste in for 2011: Table of quantities by waste type

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

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

Waste Out 2011

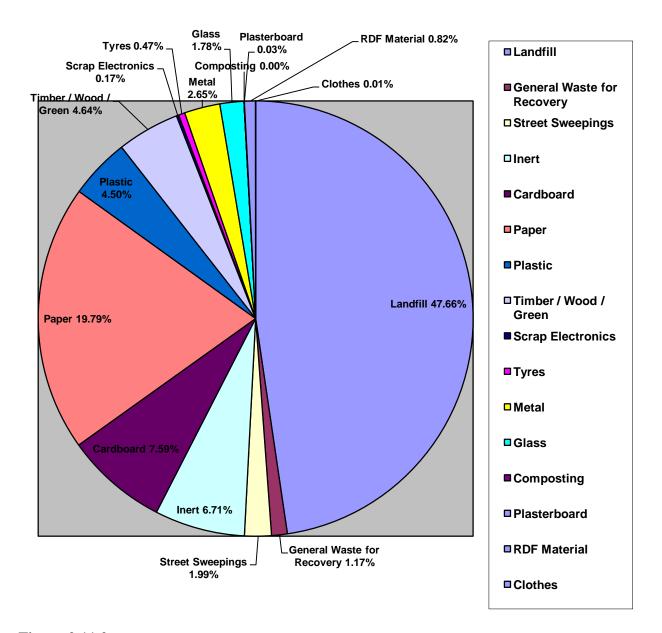


Figure 2.11.2: Breakdown of Waste going off site for Recovery or Disposal from $\mathbf{1}^{st}$ January $\mathbf{2011} - \mathbf{31}^{st}$ December 2011

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

WASTE IN (2012)

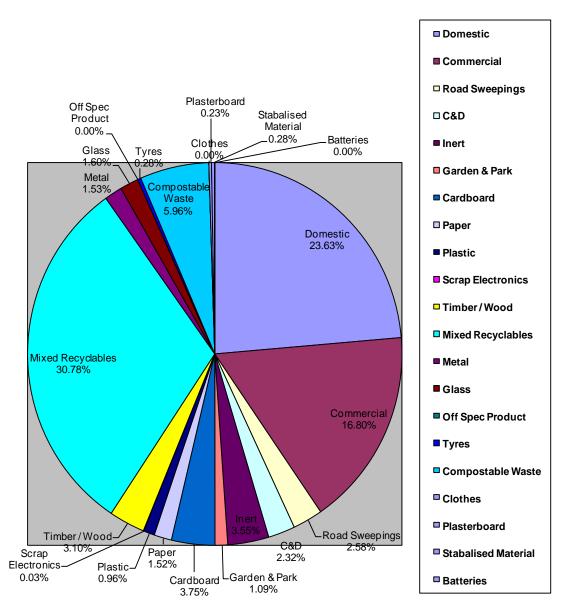


Figure 2.11.0: Breakdown of Waste Received on site from 1st January 2012 – 31st December 2012

Waste in for 2012: Table of quantities by waste type

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

Table 2.11.1: Total Wastes Incoming 1st January 2012 – 31st December 2012

Waste Out 2012

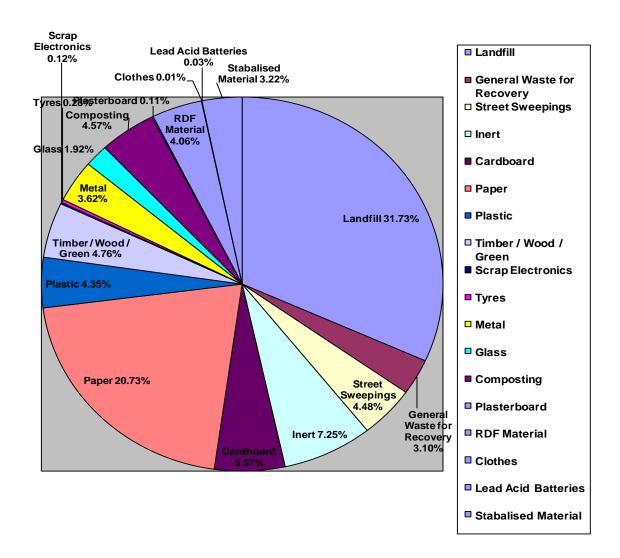


Figure 2.11.2: Breakdown of Waste going off site for Recovery or Disposal from 1st January 2012 – 31st December 2012

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 2.11.3: 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 2.11.4: Breakdown of recycling waste out for 1st January 2012 – 31st December 2012

Explanation of Tonnage on Site at the end of 2012

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

Total Waste In:- 71818.18 tonnes Total Waste Out:- 68646.00 tonnes

This gives a difference of 3172.18 tonnes of a difference outlining stock on site at the end of the reporting year. A stock take was carried out at the end of 2012 and confirmed that with a combination of processed material awaiting shipment and unprocessed material on site we had a total stock quantity of 6362 tonnes at year end. This is not an exact figure however it is a very good estimate carried out by three members of the Management Team on 02/01/2013.

This end of year stock was just standard material that had already been processed awaiting shipment or material waiting to be processed. There are no concerns over the level of stock or the ability to process and transfer all of it during Q1 of 2013.

Waste In / Out 2012 Summary

Tonnages through the facility in 2012 fell slightly in comparison to the previous reporting year to just over 71,000 tonnes from the 75,000 tonnes accepted in 2011. Considering the current economic climate and the number of commercial premises closing or reducing their waste volumes we view the 2012 tonnage as a positive result.

During 2012 we introduced more detailed sorting on all deliveries of waste at the site to ensure that the maximum amount of material was diverted to landfill and as a result save the company valuable revenue. This was achieved successfully and we were able to turn a lot more of our waste deliveries into recycling during this reporting period.

Our composting process only opened very late in 2012 and a significant change in tonnages of compostable material processed through our own facility will be evident at the end of the next reporting period. During this reporting period it is evident that although this material was still collected by the company during 2012 we transferred it off site for processing at other composting facilities.

The picking station remains vital to our company and once again processed over 20,000 tonnes of material during 2012. The station alternates between a one and two shift pattern throughout the year to cope with the tonnages coming into the site.

The end of year stock was just standard material that had already been processed awaiting shipment or material waiting to be processed. There are no concerns over the level of stock or the ability to process and transfer all of it during Q1 of 2013.

The facility is more than adequately equipped to accept, process, store and transfer all material accepted in current volumes. We are happy with the level of staff and the capacity of the machinery to cope with the demands of the waste volume coming into the facility. No major changes are planned in relation to upgrading this during the new reporting period.

Report on Composting Quality

As per our EPA licence we are required to include as part of the Annual Environmental Report a summary report on the quantity / quality of compost material being produced through our production process.

In this reporting period we have nothing to report in relation to compost quality because the facility was not accepting any fresh material for processing. In July of 2011 the Department of Agriculture requested that no new material be accepted into the Barna Waste facility until a serious of issues highlighted by them were resolved. As a result the facility was closed and Barna Waste used third party facilities for the processing of our compostable waste.

Since July 2011 and through to December 2012 Barna Waste did not accept food waste into our own facility and instead the time was spent working on a new business plan with the Department of Agriculture. This new plan has been put into action during the second half of 2012 with the following changes made:-

- New delivery ramp and entrance has been constructed
- New Composting Operations Manager in place
- Dedicated / trained composting personnel in place
- Clean area and dirty area now segregated by a permanent wall
- Pasteurisation bunkers made smaller and now divided into two separate tunnels
- New HACCP plan in place
- New operating procedures in place

As a result of these changes the facility was approved to re-enter validation in December 2012 and will start processing material through the facility again under this validation during Q1 and Q2 of 2013.

All material which was originally processed through the facility in 2010 and up to July 2011 was stored in the clean area of the facility and had successfully passed E-coli and Salmonella tests to prove it had been stabalised. After working with the Department and the EPA it was agreed on completion of a successful AT4 test that this material be removed from the site and used a landfill cover material. After this was agreed Barna Waste successfully removed the full stock of this material (2200 tonnes) to approved landfill sites for use as cover as detailed in the waste in / out figures for 2012. This process resulted in the complete removal of all processed material from our composting facility. Only landfill cover was the approved use for this material.

In summary Barna Waste did not process any material at the facility during 2012 and therefore there is no report to be produced on the quality of compost at the site although material processed in 2010 and 2011 was removed completely from the facility and used only as a landfill cover.

2.11.5 Summary of Recycling Outlets used in 2012

Barna Waste 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 used for 2011 is included below:

MATERIAL / COMMODITY	MARKET / TYPE
Metal	Galway Metal (Galway) – recycler
	Howarth Metal (England) – recycler
Steel Cans	Boost Recycling (England) – broker
	WRC Recycling (Scotland) – broker
Aluminium Cans	WRC Recycling (Scotland) – broker
	Wilton Waste (Ireland) – broker / recycler
Timber (shredded)	Greenstar (Galway) – end user
	Galway City Council Composting Site – end user
	Eirebloc (Cork) – end user
	Local Farmers – end users
Paper / Cardboard / Newspaper	Highlander International (Glasgow) – broker
_	Cellmark (USA) - broker
	Peute Papier Recycling (Holland) – end user
	Marwin (Cork) - broker
	Boost Recycling (England) – broker
	Recycling UK (England) – broker
	Irish Packaging Recycling (Panda, Ireland) – broker
	WRC Recycling (Scotland) – broker
	Ashley Paper (England) – broker
Plastics	Eco Plastics (Lincolnshire) – end user
	Leinster Environmentals (Dundalk) – broker
	Peute Papier Recycling (Holland) – end user
	WRC Recycling (Scotland) – broker
	J & A Young/Jayplas (England) – end user
	Polymer Recovery (Ireland) – end user
	JFC (Ireland) – end user
	Shabra Plastics (Monaghan) – end user
WEEE and Scrap Electronics	Electrical Waste Management (Ireland) – broker
Glass	Glassdon Recycling (Antrim, Northern Ireland)
	Rehab Glassco (Co Kildare)
	Gannon Eco (Kilbeggan)
Tyres	Global Materials Recycling (Galway) – broker
	Duffy Tyre Recycling (Donegal) – broker
Inert Materials	Barna Waste (permitted site – Headford Road)
Landfill Material	Connacht Residual Regional Landfill - Kilconnell
	Ballina Landfill – Co Mayo
	Drehid Landfill – Co Kildare
RDF Material	Greenstar (Millennium Pk, Dublin)
General Waste for Recovery	Indaver Waste to Energy (Meath)
Gypsum / Plasterboard	Gypsum Ireland (Dublin)
Clothing / Textiles	Textile Recycling Ireland (Dublin)
Pallets	Chep (England)
	Connaught Timber Products (Galway)

Table 2.11.5: Major recycling markets used in 2012

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 Waste are registered as a shipper of green list material with the TFS office in Dublin and our broker's registration number for 2012 currently is:- **IRE/G032/12.**

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 Waste 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 Waste 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 Report on the achievement of targets set out for:

- Biodegradable waste
- Packaging waste
- Recovery of C&D Waste
- Recovery of Household, Industrial and Commercial waste.

This section is included to update on the progress Barna Waste have made during the 2012 reporting period with regards to meeting our environmental targets. As stated in previous years it is the aim of the company to meet the targets set out by the "Waste Management - Changing Our Ways" Policy Document which was published by the Department of the Environment and Local Government in 1998. The relevant targets set out in this document are as follows:

- A diversion of 50% of overall household waste from landfill within the next 15 years
- A minimum 65% reduction in biodegradable waste consigned to landfill within the next 15 years
- The development of waste recovery facilities employing environmentally beneficial technologies, as an alternative to landfill, including the development of composting and other feasible biological treatment facilities capable of treating up to 300,000 tonnes of biodegradable waste per annum within the next 15 years
- Recycling of 35% of municipal waste within the next 15 years
- Recycling at least 50% of C&D Waste within a five year period, with a progressive increase to at least 85% over the next 15 years

As can be seen from the results above the overall percentage for waste recycled is 59% of the total waste into our facility across the weighbridge for the reporting period. This is 14% up on our performance in 2011. The increase in recycling tonnage can be attributed to an increase in waste tonnage sent for recovery during the first part of the reporting period and an increase in our efforts to remove as much recyclable material for mixed loads as possible during 2012. We have always sorted material from mixed loads to avoid sending it for disposal but due to the current financial climate we maximised those efforts during this reporting period and this has helped to increase our recycling figure. The clearance of our composting facility of stabalised material processed during 2010 and 2011 also had a significant impact on the recycling figure as this material was able to be recovered and used as a landfill cover material after approval by the Agency.

In relation to domestic composting which we started to introduce in 2010 in the form of offering customers in specific market areas a 3 bin system incorporating collections of general waste, sorted recyclables and sorted biodegradable materials mainly food and garden waste. To date we have over 5,400 domestic customers switched to a 3 bin collection system which equates to approximately 24% of our total customer base in this sector. The uptake on the bins has been almost 100% and has been well received and supported by the customers.

Obviously the fact that our own composting facility was closed during this reporting period hindered our plans to roll out more brown bins to domestic customers. This plan had to be put on hold until the issues in the composting building were resolved. Now that the facility is open again and in the validation stage this process will be begin again and brown bins will be rolled out further during 2013 to areas where the service is viable. All material collected from these brown bins is / will be delivered to our own composting facility for processing.

In relation to compost for commercial customers Barna Waste has implemented a 3 bin collection system for almost all commercial customers who have compostable material. New legislation came into effect in July of 2010 which insisted that commercial customers who place this type of waste onto the market 'must' have it collected in a segregated manner where it will be diverted from landfills. Our Sales team contacted all our commercial customers and almost all customers affected have now signed up to the 3 bin collection system. As a result Barna Waste has established food waste collection routes throughout Connacht as a result. Our pricing structure for these collections has and will remain structured in a manner that will encourage customers to make the effort to recycle. Very few commercial customers who place biodegradable material onto the market have refused to take up this service and in Q1 of 2012 the names of these customers were given to the Local Authority who will follow up with customers on the list to ensure they take up the service as soon as possible.

Due to the hard work put into these composting initiatives during 2010 and 2011 we managed to bring in excess of 10,000 tonnes of compostable material to our facility for processing. Due to the closure this was not increased during 2012 in terms of processing the material on site but we did still collect another 4,000 tonnes of material and divert it from landfill. In total since we started this process was have collected over 14,000 tonnes of material that would previously have gone to landfill.

As our process develops then our collection quantities will grow and can only result in having a positive impact on recycling figures for both the commercial and domestic sectors. We already know that we are headed in the right direction to achieve the target of diverting 50% of household waste away from landfill and in total 65% of biodegradable waste away from landfill over the next few years and we have made a significant investment to allow us to achieve that.

In relation to the national target for the development of waste recovery facilities employing environmentally beneficial technologies, as an alternative to landfill, including the development of composting and other feasible biological treatment facilities capable of treating up to 300,000 tonnes of biodegradable waste per annum within the next 15 years we have already demonstrated our commitment. As outlined earlier in this report Barna Waste opened our own composting facility on 1st January 2010 which is licenced to process up to 40,000 tonnes of compostable material per annum and 20,000 tonnes in its current set-up. The investment in this facility has been significant and has taken a number of years to complete the project but shows our own commitment to meeting the above targets. This composting process will run alongside our existing picking station for the processing of mixed dry recyclables and we believe that both processes fully equip our company to meet the targets outlined above by providing state of the art facilities to sort and process both recyclable waste streams within a 3 bin system (dry recyclables and biodegradable materials). If other similar facilities are opened / operated and are equipped to carry out the same level of activity as we can then the country should achieve its target of providing the required infrastructure that can manage the tonnage outlined above.

As a company we believe we have done our part in helping to achieve this goal. We are committed to ongoing investment in the best available technologies that will assist our business and we will continue to develop our site as we move forward.

The target set out to divert 35% of municipal waste from landfill over the next 15 years is also one we are striving to achieve. There are two ways in which we can achieve this target. One is by negotiating and supplying regular tonnages to the Indaver Incinerator in County Meath which will increase our general waste going for recovery by simply transferring it off site to this facility. It is unlikely this is the option we will use as tonnage to this facility will be limited for each contractor and therefore we will have to find an alternative solution.

The alternative solution is to put in place an internal process to manage our waste. During this reporting period we have invested in a new baler which includes a wrapper. This machine has been commissioned on site and is almost ready to start producing material. We are in the process of finalising a deal with a company in Europe who produce energy from waste with a view to shipping trial material during the second half of 2013. Firstly we must finalise a contract and then finalise the internal process by adding a trommel and some magnets to the front end of the baling process to ensure the material meets the requirements for export. This entire process is hoped to be finalised in Q1 of 2013 and sent for approval to the Agency before the end of Q1 also. Assuming the process can be successfully approved this will allow us to export large amounts of waste for recovery instead of disposal within this country before the end of 2013. Getting this process approved and running successfully will be a priority for early 2013 and if key to the future success of our company.

The targets in relation to C&D type waste have become difficult to monitor due to the significant drop in tonnages in relation to this type of waste. Tonnages of this material have dropped significantly in the past few years due to the major downturn in this industry and therefore trends are hard to establish due to the lack of volume. We are not in a position to predict construction waste tonnages moving into 2013 but tonnages will have to increase so that trends can be properly analysed. We will monitor and report on this through 2013 and in next year's annual environmental report. At present construction related wastes form a very low part of our business as a result of the economic situation.

Summary

Overall the above updates show that Barna Waste are making good progress towards achieving the National and European recycling targets set out in 1998.

2013 will be an important year as the time has come to make a significant change in the way we manage our general waste and assuming the plans we have are implemented this will see general waste being sent for recovery in large quantities rather than going to landfill. This waste will be recovered as energy and be much more environmentally friendly then the current landfill option. This change also has the potential to achieve significant savings for the company and ensure we go a very long way to achieving the targets outlined above. We are fully confident we will have significant progress to report in 2013 in relation to recovery of general waste targets.

In addition the newly developed composting facility should help us achieve all targets in relation to biodegradable waste from both commercial and domestic customers. We are fully confident that this new process will get us through validation and allow us to process as much food waste through the process as we can feed into the plant. Successfully completing the validation process during Q1 and Q2 2013 will allow s to significantly increase brown bin roll outs and therefore impact on the tonnage of segregated food waste available to us for recycling.

Further progress will be reported on these targets in the 2012 Annual Environmental Report.

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 3.0.1: Actual and Projected Waste Quantities

WASTE TYPE	TONNES PER ANNUM				
	2004	2005	2006	2007	2008
Household	19796.62	22134.78	29328.22	28840.92	18539.17
Commercial	17691.68	17874.97	16095.29	22150.64	26433.11
Construction and	12690.92	4594.86	6234.14	5988.48	2729.37
Demolition					
Others	19981.8	21526.33	33,489.19	35625.35	35784.14
Biowaste	0	0	0	1525.88	1674.44
Total	71193.08	66130.94	85146.84	94,131.27	85,160.23

WASTE TYPE	TONNES PER ANNUM				
	2009	2010	2011	2012	2013 - Projected
Household	22356.82	19,140.78	18,335.45	16973.75	16,500
Commercial	12905.46	11,613.86	14,637.36	12065.34	12,000
Construction and Demolition	1202.76	1,192.84	804.43	1667.91	1,500
Others	33288.99	33,117.07	34,936.09	36,828.40	36,500
Biowaste	1,960.91	4,303.09	6,469.91	4282.78	5,500
Total	71,714.94	69,367.64	75,183.24	71,818.18	72,000 projected

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 Waste facility is outlined below:-

The site has been continually developed over the past ten years and at the end of the current reporting period was laid out as follows:

• Site Accommodations:

- 1) Canteens the staff canteens were significantly upgraded during this reporting period and staff canteens are now located in one central location close to parking and work stations. The canteens have been painted and installed with new electronic equipment, sinks and storage bays as well as changing and toilet facilities adjacent.
- 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 separate 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

• 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. 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 the 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. Generally mixed recyclables are the only material type fed through the picking station. Material sorted from the picking station is then baled directly in the adjacent balers.
- Steel and Timber processing areas steel and timber are processed within the new composting building in separate bays. A member of staff is now designated to process these materials and maintain the machinery on a daily basis. This change has increased the efficiency of the facility greatly. Small amounts of steel and timber are still stored in the main transfer station because they are picked out of mixed deliveries and taken to the appropriate area at the end of each day. These changes have meant that no stockpiles of metal / timber have been allowed to build up on site in normal circumstances and the material is processed on a regular basis.
- 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. Baling wire stock is also kept in this area.
- 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 2012 and will allow us to create additional space in the current transfer station by relocating something to this new area

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.

EMS System

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 Waste were audited during 2011 and successfully retained the ISO14001 certification for another year. Details of the audit result are available on request from Barna Waste.

The following is a list of the names / titles of all procedures and documents used at the facility at the end of 2011. 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 WASTE - EMS Contents Listing

1. BW/EMS/001	E.M.S. Manual
2. BW/EMS/002	Environmental Policy
3. BW/EMS/003	I.E.R
4. BW/EMS/004	Document Control Procedure
5. BW/EMS/005	Document Issuance Form
6. BW/EMS/006	Document Review Form
7. BW/EMS/007	Programme Review Form
8. BW/EMS/008	Aspects Register
9. BW/EMS/009	Records Management Procedure
10. BW/EMS/010	Env. Management Rep. Job Description
11. BW/EMS/011	Management Review Schedule
12. BW/EMS/012	Revision History Form
13. BW/EMS/013	Training Course Attendance Record
14. BW/EMS/014	Emergency Preparedness & Response Proc.
15. BW/EMS/015	Communications Procedure
16. BW/EMS/016	Waste Handling & Disposal Procedure
17. BW/EMS/017	Accident Report Form
18. BW/EMS/018	Health and Safety Equipment Issue Form
19. BW/EMS/019	Training Procedure
20. BW/EMS/020	Env. Records Index
21. BW/EMS/021	Employee Env. Feedback Form
22. BW/EMS/022	Approved Supplier Control Procedure
23. BW/EMS/023	OBSOLETE – Approved Supplier List
24. BW/EMS/024	EMS Programme List
25. BW/EMS/025	EMS Programme Management Procedure
26. BW/EMS/026	Emergency Response Team Seniority List
27. BW/EMS/027	Register of Environmental Legislation
(NOTE:- The above document	· · · · · · · · · · · · · · · · · · ·
28. BW/EMS/028	Register of Legislation Management Proc.
29. BW/EMS/029	EMS Audit Procedure
30. BW/EMS/030	Internal Audit Report Form
31. BW/EMS/031	Non Conformance Form
32. BW/EMS/032	Employee Details Form
33. BW/EMS/033	EMS Audit Schedule
34. BW/EMS/034	Emergency Contacts Listing
35. BW/EMS/035	Safety Statement Declaration Form
36. BW/EMS/036	Internal Environmental Checklist

37. BW/Ops/001 **Organisation Chart** 38. BW/Ops/002 Monitoring and Recording Schedule 39. BW Ops/003 Foul Water Discharge Meter Reading Form 40. BW/Ops/004 Waste Inspection Check Sheet 41. BW/Ops/005 Waste Processing Procedure 42. BW/Ops/006 Housekeeping/Nuisance Inspection Procedure 43. BW/Ops/007 Housekeeping/Nuisance Check Sheet 44. BW/Ops/008 General Monitoring Procedure 45. BW/Ops/009 Waste Profiling Form 46. BW/Ops/010 OBSOLETE – Bund Testing Results Form 47. BW/Ops/011 **OBSOLETE** - Bund Integrity Test Procedure 48. BW/Ops/012 Drainage, Bunds & Interceptor Check Sheet 49. BW/Ops/013 Env. Incident Investigation Form Env. Incident Investigation & Reporting Proc. 50. BW/Ops/014 51. BW/Ops/015 Env. Complaints Form 52. BW/Ops/016 Env. Non-Compliance Form Env. Non-Compliance Procedure 53. BW/Ops/017 54. BW/Ops/018 Residuals Management Procedure 55. BW/Ops/019 **Incoming Checklist** 56. BW/Ops/020 Outgoing Checklist 57. BW/Ops/021 **Equipment Maintenance Procedure** 58. BW/Ops/022 Equipment Maintenance Schedule/Checklist 59. BW/Ops/023 Picking Station Procedure 60. BW/Ops/024 Obsolete - Boston Scientific Procedure 61. BW/Ops/025 Obsolete - Medtronic AVE Materials Procedure 62. BW/Ops/026 Toolbox Training Document for Forklift Safety 63. BW/Ops/027 BBT Battery Charging (Health and Safety) Procedure 64. BW/Ops/028 Weekly Preoperational Checklist for Excavator Grab 65. BW/Ops/029 Weekly Preoperational Checklist for Forklifts 66. BW/Ops/030 Daily Preoperational Checklist for Loading Shovels 67. BW/Ops/031 BBT Noise Health and Safety Policy 68. BW/Ops/032 Permit to Dig Form 69. BW/Ops/033 Manual Handling Policy Procedure 70. BW/Ops/034 BBT Composting Odour Management Procedure 71. BW/Ops/035 Barna Waste Construction Works Safety Checklist 72. BW/Ops/036 Number to be re-used no document 73. BW/Ops/037 Barna Waste Facility Health and Safety Guidelines 74. BW/Ops/038 OBSOLETE - Barna Waste Fire Drill Guidelines 75. BW/Ops/039 Barna Waste Weekly Fire Equipment Checksheet Barna Waste First Aid Equipment Checklist 76. BW/Ops/040 77. BW/Ops/041 Barna Waste Weekly Health and Safety Checklist 78. BW/Ops/042 Hot Works Permit Form 79. BW/Ops/043 Hot Works Procedure 80. BW/Ops/044 Machine – Permit to Work Form 81. BW/Ops/045 Still to be used missed in error 82. BW/Ops/046 Health and Safety Records Index 83. BW/Ops/047 Induction List for Visitors to Barna Waste 84. BW/Ops/048 Composting Waste Acceptance Form 85. BW/Ops/049 Compost Processing Procedure Training Versatility Chart 86. BW/TRA/001 87. BW/TRA/002 **BW Induction Process OBSOLETE** - Employee Roll Call Listing 88. BW/TRA/003 **OBSOLETE** - Approved Forklift Drivers Listing 89. BW/TRA/004 Bin Lorry Lifting Equipment Training Procedure 90. BW/TRA/005 91. BW/TRA/006 Health & Safety Equipment - Ear Muffs Fitting Instructions Health & Safety Equipment - Foam Plugs Fitting Instructions 92. BW/TRA/007

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 2012 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
- 3 x track machine excavators
- 3 x Liebherr grab machines for loading trucks and managing movements of waste
- 1 x Kabelco grab machine
- 3 x forklifts
- 1 x JCB Teletrucks (with clamps for lifting bales)
- 1 x Teleporters
- 2 x Electric Scissor Lift
- 1 x Finger Screener
- 5 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
- 1 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 Power Washing Jetter Van
- 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 Swarf Metal Baler
- 1 x Compost Turing Mobile Unit

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

- 8 x artic trucks
- 2 x rigid tankers
- 16 x skip lorries
- 7 x hook bin loaders
- 4 x curtainsider collection / delivery vehicles
- 46 x rear end loaders (standard bin lorries)
- 30 x collection delivery vans / jeeps
- 12 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 Waste 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 2012. We will continue to implement this policy.

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

The Barna Waste Facility in Carrowbrowne has been in an almost constant state of change over the past 10 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.

2012 Upgrades / Changes

During this reporting period mainly due to the financial constraints currently being experienced within the industry in general limited work was down in relation to upgrading of the facility.

The main piece of work took place within our composting facility with the construction of a new entrance and delivery ramp, the permanent concrete wall being built to segregate clean and dirty areas and the splitting of the pasteurisation bunker into two seperate bunkers to aid the processing of the material at the back end. This work was successfully completed and has been approved by the Department of Agriculture. This work allowed for the re-opening of our composting facility in O4.

The other major piece of work undertaken was in relation to the area out with our licence boundary where a new shed was constructed. The construction of this shed is complete however surrounding areas remain unfinished and therefore this building is currently not ready for use. Once construction around the building is finished the plan is to have this area integrated into our EPA Waste Licence at some stage during the new reporting period. A defined use for this building has yet to be finalised and will be advised to the Agency in due course.

In relation to construction that completes the summary for this reporting period. A lot of time was spent during 2012 maintaining all the equipment, buildings and hardstand areas that already existed around the site and that will continue into 2013. Significant construction or changes to the facility are not envisaged until such times as the financial situation allows us to do so.

2013 Proposed Developments

During the next 12 months we have no significant plans to make changes to the facility or carry out major construction work. The priority will continue to be that we maintain on a regular basis all the plant, equipment, buildings and hardstand that currently exist at the site. This will help us continue to operate at a high level without the need to invest in construction acitivites.

There is a plan to invest some money into the picking process during 2013 and that will be planned for Q3 or Q4 with a goal of increasing the throughput capacity without increasing staff numbers or reducing the quality of the product being produced. The exact detail of this work is not yet available and will be finalised with our Engineers nearer the time. The Agency will be advised of these changes in advance of them being implemented.

In addition we will revisit a project that we had hoped to make progress on through 2012 but due to investment in other priorities we did not complete the project. During this reporting period we have invested in a new baler which includes a wrapper. This machine has been commissioned on site and is almost ready to start producing material. We are in the process of finalising a deal with a company in Europe who produce energy from waste with a view to shipping trial material during the second half of 2013.

Firstly we must finalise a contract and then finalise the internal process by adding a trommel and some magnets to the front end of the baling process to ensure the material meets the requirements for export. This entire process is hoped to be finalised in Q1 of 2013 and sent for approval to the Agency before the end of Q1 also. Assuming the process can be successfully approved this will allow us to export large amounts of waste for recovery instead of disposal within this country before the end of 2013. Getting this process approved and running successfully will be a priority for early 2013 and if key to the future success of our company. The Management of Barna Waste recognise in order to meet our environmental targets it is essential to have a process in place to treat landfill waste and find alternate, more sustainable, affordable and environmentally friendly outlets for this material.

No other upgrades to the site facilities, amenities, plant or machinery are planned at the time of writing this report.

The Agency will be provided with updates on these projects as they develop throughout 2013.

5. Incidents and Complaints Summary

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

- Environmental Complaints Form (BW-OPS-015)
- Environmental Incidents Form (BW-OPS-013)

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 Complaints, Incidents 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 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 2012 AER we can confirm the following:-

- There were no reported complaints received by the EPA or Barna Waste directly during 2012 in relation to our facility.
- There were no recorded or reported environmental incidents during the reporting period and therefore we have nothing to detail in this section of the 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. These nuisance checks verify that there are no issues at the facility with regards to vermin, birds, flies, dust, housekeeping or odours.

In relation to the 2012 results for nuisance checks there are no major issues to report. Reports were carried out as required on a daily basis giving a full and comprehensive set of results to review. On individual days there were obviously issues logged that were reported to Management and fixed but these were normal minor issues that were fixed on the same day and did not need any serious action to be taken.

The Agency did record an observation in their annual inspection of the site requesting that a change be made in the way that housekeeping is recorded on the nuisance inspection form. To date the term 'ongoing work' has been used to describe housekeeping at the facility because as a company we felt that was the best way to describe the situation reflecting that work was being done but that housekeeping could always be improved. In light of these comments moving into 2013 this will be changed and specific areas of the site will be mentioned on a daily basis to better reflect exactly what concerns the person carrying out the inspection had.

In relation to vermin: nuisance checks did not show up any problem and this is backed up by the full set on annual results carried out by our third party contractor Ecolab which confirm vermin at the site is not a problem. Levels of activity in relation to vermin vary throughout the year and can be affected by various elements such as weather, amount of stock on site, hours of operation etc but we never had an issues during this reporting period where rats or any type of vermin were a problem at the facility.

A daily road sweeping programme is in place to ensure external dust does not accumulate in periods of dry weather and daily nuisance checks confirmed this programme was very successful in controlling and maintaining dust levels at the site. The road sweeping works in conjunction with our internal dust misting system to ensure dust is kept to a minimum level at all times.

We had no issues during 2012 in relation to odours at the facility and this was to be expected as we were not accepting or processing any food waste through our composting facility. General waste is moved normally within 24 hours and the rest of the material on site is clean recycling meaning that smell / odour from the facility would be a very rare and unusual occurrence. We will monitor this very closely during 2013 once the composting facility is back up and running and we have controls in place to ensure odour remains under control at the facility.

Overall nuisance check results for 2012 were positive and brought nothing major to light but we do recognise the need to implement the changed requested by the Agency in relation to housekeeping for the new reporting period.

Nuisance checks will continue on a daily basis throughout 2013 with results being logged and made available for inspection.

In relation to emission controls the processing areas are enclosed in most areas with the exception of the main transfer building but no waste processing is carried out in the immediate area adjacent to the open area. The enclosed nature of our processes ensures that emissions are kept to a minimum.

The dust misting system in the timber processing area, the dust pumps working in the external areas of the site and the daily road sweeping programme ensure that dust on site is not an issue. Noise from our processes has never been an issue and that continues to be the case. Emissions from our composting process are controlled and managed via the scrubbers and fans within that process. Water emissions to the adjacent stream were clean both upstream and downstream and therefore we have no major concerns at the site in relation to emission controls but will continue to monitor these vigilantly during 2013.

7. Environmental Monitoring

The required monitoring programme at the Barna Waste 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 (carried out by Complete Lab Solutions) on the 30/03/2012
- Surface & Foul Water Monitoring (carried out by Complete Lab Solutions) on the 17/05/2012
- Surface & Foul Water Monitoring (carried out by Complete Lab Solutions) on the 20/07/2012
- Surface & Foul Water Monitoring (carried out by Complete Lab Solutions) on the 16/11/2012
- Dust Monitoring (carried out by Emerald Environmental Services) in periods 16/05/2012 to 15/06/2012, 18/07/2012 to 20/08/2012 and 20/08/2012 to 17/09/2012. 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 (carried out by Complete Laboratory Solutions) on 18/05/2012

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

Complete Lab Solutions are employed as part of the Environmental Management Team to carry out and report on the Surface and Foul Water monitoring and for the 2012 monitoring also took over the Noise Monitoring programme following a tender process run internally. We have on file all the relevant names and qualifications held by the people carrying out the testing on our behalf.

Emerald Environmental Services are employed as part of the Environmental Management Team to carry out and report on Dust levels at our site. We have on file all the relevant names and qualifications held by the people carrying out the testing on our behalf.

The selection and appointment of contractors to carry out these duties is awarded based on a tender programme being carried out each year. Up to 10 companies are invited to submit quotations and proposals for the environmental monitoring and Barna Waste review the tenders in relation to price and the ability to carry out the work required, willingness to provide the detail and structure of reporting we require and on reputation within the field.

The tender is coordinated by the Facility Manager and he makes the decision on the awarding of the contracts. Barna Waste 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.

Complete Laboratory Solutions will continue to monitor our facility during 2013 as they have just been successful in the new tender for work.

7.1. Summary of Surface and Foul Water Results

Water Monitoring – Annual Summary

All surface and foul water monitoring was carried as per the schedule set out in EPA licence WL106-2 for 2012. The Agency have raised a concern in their recent annual audit that results must be turned around quicker moving into the new reporting period. A meeting has been hold with Complete Laboratory Solutions to this effect to ensure results are turned around very quickly during 2013.

In relation to this reporting period the dates of the collection of the samples are as listed above. In addition to this schedule the Agency also take their own samples at periodic times during the year.

Our main areas of concern in relation to water emissions would be the water that discharges from our site to the stream at the back of our facility. This waterway is a public waterway which is home to fish and other wildlife and many plants which must be protected and therefore emissions in this area are monitored closest. The sample at location SD1 is taken in the middle of our site at a collection point just before the water enters the stream and then monitoring points SW1 and SW2 are upstream and downstream of our site and samples are taken directly from the stream water itself.

In relation to critical locations at SW1 and SW2 for 2012 there were no problems to report in the readings taken at either of these locations and results were of no concern. No contamination was evident in the water readings and no trigger levels within the licence were breached and that would suggest no issues arising from our facility in relation to our water emissions.

Visual checks of the stream continue to be carried out diligently at the stream on a daily basis to check for visual evidence of contamination, dead plants, dead fish etc and these visual checks also showed no sign of any contamination in the stream water. No chemicals, oils, litter or any type of contamination you would associate with our facility were evident in any of the stream samples.

Overall all results for locations SW1 and SW2 for this reporting period were within specification.

In relation to monitoring location SD1 as during 2011 & 2012 the reports did show issues in relation to monitoring point SD1. These samples as always are taken directly from the underground pipe at monitoring point SD1 located just before the water goes into the stream at the back of the facility and after it passes through our oil interceptor. All four quarterly reports show levels of mineral oil being detected in the pipe at location SD1. As per findings for previous years the same comments apply for this reporting period. The area is monitored visually during every work day without fail to check for visible signs of oil or other similar products and the oil has not ever been visible in the pipe or in the samples taken from the pipe in the collection bottles, no discoloration of the sample or scum in the collection bottle. The oil interceptor has been checked and thoroughly cleaned internally again during the past 12 months and no issues were found with the functionality of the interceptor.

As a precautionary measure during 2010 we took the step of surrounding the pipe which discharges this water to the stream with a water boom / bund to ensure any traces of oil that do escape the pipe are contained in the immediate area outside of the pipe and can be identified during the daily visual checks. This boom / bund is replaced at regular intervals to ensure its effectiveness is maintained at the highest possible level. The visual checks of this area are carried out on a daily basis morning, to check the quality of the water and no visual evidence has EVER been apparent to suggest oil was leaking into the stream. No discoloration, scum or trace of any oil like substance has ever been apparent in the water and this area is shown to the EPA when they visit the site and they can verify this to be the case.

In addition to bunding the area we invested some money during 2010 asking Complete Laboratory Solutions to carry out a check on the results at this location (SD1) to see if further in depth analysis would shed any light on possible causes. The results of this investigation into SD1 were communicated to us in May of 2010. The findings were summarised as follows: "The results have been reviewed back to May 2009 for Mineral Oil. The extractable hydrocarbons C8 to C14 range from 168 to 962 ug/l (parts per billion) which is carried out initially prior to reporting mineral oil. There is similar hydrocarbon pattern which usually repeats for each time point. Interpretation indicates an unknown pattern. It is unlikely that the pattern is petroleum related which rules out products such as kerosene, JA1, white spirits, diesel, gasoil, HFO and lube oils. Finally the mineral oil result, although extremely low in part per billion is caused by extractable hydrocarbons which are unknown and unlikely to be petroleum related".

To further investigate and try to find an answer during 2011 we also carried out an underground check of drains, tanks to ensure, especially in this area, there was nothing in the pipe further back from this location that potentially could be causing a problem away from what is visible at ground level. This independent survey was carried out on the full drainage network at the site and again showed no issues in this area that would lead to an issue where mineral oil is being detected in the sample.

The EPA's own monitoring team have taken samples on a regular basis since 2010 for this location and there samples have never even shown any traces of mineral oil at this location.

All of the above investigations have confirmed for us that even though oil had been detected in the results by Complete Laboratory Solutions it was not likely to be caused by any of the materials or products that could possibly have been coming from our site drains and that our oil interceptor was doing its job successfully. Since visual checks show no visual trace of oil we can only assume that the results are from something within the water itself possibly the volume of plant life or water running off the adjacent bog land. Upstream and downstream monitoring results support the theory there is no cause for concern in this area. Having done everything possible to find a cause and having the results of the 2010 investigation to support us we are positive these results are not as a result of our own emissions. We will be diligent and continue to monitor the area on a daily basis until such times as results show an improvement.

Outside of the mineral oil being detected during Q2 we exceeded the trigger levels in our licence at location SD1 for BOD and Suspended Solids and in Q3 for Suspended Solids only. BOD levels were 176mg/l and Suspended Solids came in at 45mg/l for Q2 and 42mg/l for Q3 and these should have been reported to the Agency as incidents but were overlooked in the report in error. This was highlighted during our annual site audit and will be rectified for any future incidents. Results for Q4 were back under the trigger levels of the licence. These parameters will be monitored and focused on much more vigilantly during the new reporting period to ensure the trigger levels are not exceeded and if they are that an incident investigation is set-up immediately through the Agencies ALDER reporting system.

The other water monitoring point is at location FW1 where our foul water is discharged. There are no major concerns as this water is discharged directly to the adjacent leachate treatment lagoon operated by Galway City Council in the redundant landfill site and the water is treated before being discharged.

In Q1, Q2 results at this location showed no exceedance of any parameters outlined in our EPA licence and all results were within specification. During Q3 and Q4 the limit of our licence for fats, oils and greases is 100mg/l and the sample taken showed a level of 111mg/l (Q3) and 121mg/l (Q4). This was only slightly over the licence limit and we confirmed that during sampling on both occassions the wash bay was in operation and this was more than likely the cause of the exceedance in this area. The wash bay normally operates for a couple of hours per day but during both weeks these samples were taken the bay had been working full time to clean second hand bins. This was the only deviation from normal procedures that could have caused this problem. This will be watched closely during Q1 2013 results to ensure now that the wash bay is working strictly on a 2 hour per day basis that this issued has been resolved.

7.2. Summary of Dust Monitoring Results

Dust Monitoring – Annual Summary

Dust monitoring was carried out on the dates listed above during 2012. The frequency and number of samples were all carried out as per the requirements of our EPA licence WL106-2.

To assist with dust management on site we are equipped with a modern dust misting system in our timber processing area which is the major source of dust at the site and in our main transfer area close to the picking station. In addition during periods of dry weather we use our water pumps which dose the roads at the site with water to ensure traffic does not rise and spread dust. Finally we operate a daily road sweeping programme at the site which is managed by our Operations Manager which results in the main areas of the site being swept on a daily basis using our road sweeper. We hoped that these changes introduced in the first half of 2010 would have a positive effect when dust monitoring was carried out over the summer months. Monitoring results that came back to us for 2010 and 2011 were excellent and demonstrated that the work we carried to improve dust controls had made a significant impact on the dust levels at the site in a positive manner.

Moving into this reporting period we maintained the same level of focus and control on our dust management procedures. All dust results at all monitoring locations namely D1, D2, D3 and D4 were within specification for all three periods they were sampled even during the summer months of dry weather. As a result no corrective actions were required. Dust is no longer a major area of concern at the site but we will continue with our maintenance programmes at the site to ensure low levels of dust are maintained.

Dust Monitoring – MAY / JUNE 2012

Dust Monitoring was carried out by Emerald Environmental for this period and dust pots were left in the stands on 16/05/2012 and collected again on 15/06/2012. Pots were left in stands at the monitoring locations and lids were removed and taken away by EE. Results for this period at all locations D1, D2, D3 and D4 were within specification with the highest level of dust recorded at location D4 of 65 mg/sqm/day which is well within the licence limit of 350. As a result no investigation / corrective action was required. Programmes of daily road sweeping, switching on of dust pumps and the misting system within the timber processing area will continue to be followed on a daily basis to maintain dust at these levels.

Dust Monitoring – JULY / AUGUST 2012

Dust Monitoring was carried out by Emerald Environmental for this period and dust pots were left in the stands on 18/07/2012 and collected again on 20/08/2012. Pots were left in stands at the monitoring locations and lids were removed and taken away by EE. Results for this period at all locations D1, D2, D3 and D4 were within specification with the highest level of dust recorded at locations D3 & D4 of 342 mg/sqm/day and 281 mg/sqm/day which are both within the licence limit of 350. As a result no investigation / corrective action was required. Programmes of daily road sweeping, switching on of dust pumps and the misting system within the timber processing area will continue to be followed on a daily basis to maintain dust at these levels.

Dust Monitoring – AUGUST / SEPTEMBER 2012

Dust Monitoring was carried out by Emerald Environmental for this period and dust pots were left in the stands on 20/08/2012 and collected again on 17/09/2012. Pots were left in stands at the monitoring locations and lids were removed and taken away by EE. Results for this period at all locations D1, D2, D3 and D4 were within specification with the highest level of dust recorded at location D2 of 174 mg/sqm/day which is well within the licence limit of 350. As a result no investigation / corrective action was required. Programmes of daily road sweeping, switching on of dust pumps and the misting system within the timber processing area will continue to be followed on a daily basis to maintain dust at these levels.

7.3. Summary of Noise Monitoring Results

Noise Monitoring Results – Annual

Noise Monitoring was carried out by a new contractor Emerald Environmental Services as per the requirements of EPA licence WL106-2. This year's survey was carried out on 18th May 2012. As required by the licence we monitored noise levels at two sensitive locations one on the site boundary nearest the major processing area and the second at the nearest residence to our facility. Locations are known as N1 and N2. Our licence limit for noise levels is set at 55 dB(A)Laeq.

We can confirm there have been no issues or complaints regarding noise at our facility during the past year and our Health & Safety Manager is also happy with noise levels during day to day operations. Overall we are comfortable with the results reported and that we are having no impact on our employees or immediate neighbours in relation to noise despite the results taken adjacent to the transfer station being slightly over the licence limit and believe the results reflect the 'worst case scenario' given the location of the monitoring point. Given the location of the monitoring point and the location of the nearest sensitive location our conclusion is that no corrective action is required at this time. An independent consultants report carried out by our H&S Manager shows that ear protection on site is deemed to be optional and the lowest standard required (ie. ear plugs as opposed to ear muffs) and this re-enforces our opinion that noise levels both on site and in the surrounding areas are not an issue.

Readings at location N2 which is located adjacent to our nearest permanent residence show no evidence of noise from our site causing nuisance to the local residents and the only influencing noise at this location was traffic on the adjacent main Galway to Headford road. It is vitally important for our business that we do not affect the local environment in any way and this is a positive result in relation to noise levels.

Readings at location N1 on site show readings to be higher than the licenced limit and this has been attributed either to moving vehicles on site or to the leachate treatment lagoon operating at full capacity adjacent to the monitoring point. Further investigation would determine the exact cause but either way the noise level is of no concern to any local resident or adjacent businesses, our employees or customers.

In addition to licence monitoring on noise our Health & Safety Manager monitors noise levels on a regular basis to ensure we have a safe working environment for our employees and customers.

In summary / conclusion the following comment made previously by one of our independent contractor based on the results: "it can be determined that the operation of the waste transfer facility is not having any substantial negative effect on the nearest sensitive receptors. Although one of the measurements made were above the contractual limits, this was closest to the major on site activity areas and the nearest sensitive receptor was below the licence limit".

7.4. Incident Reporting

The Agency highlighted during their recent site audit in December 2012 that any exceedance of trigger levels or limits set in the waste licence should be notified to the Agency through it's incident reporting process and not through written communications as had been carried out in the passed. Barna Waste have acknowledged misunderstanding this requirement and although results were submitted to the Agency no incidents had been raised.

The Facility Manager in Barna Waste will be responsible for notifying incidents to the Agency during 2013 and this process will be followed as required moving forward.

All monitoring results are available for review in full from Barna Waste.

7.5. Compost Monitoring Results

As a requirement of EPA Licence WL106-2 we are required to monitor the performance of our scrubbers and keep records of these for review. Our Composting Manager monitors the process and logs the results. Due to there being no activity in the compost building during this reporting period there are no results to report in this years AER.

7.6. Monitoring Locations

A map of the monitoring locations at the site is attached as an appendix to this report.

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 2012 (approximately): 734,428 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.

Table 9.1: Principal Areas of Resource Consumption

Area of Use	Purpose	Principal Resource
		Consumed
Site Plant	Moving and processing of	Diesel, hydraulic oils
	wastes and our fleet of on	
	the road vehicles used for	
	the collection and disposal	
	of waste	
Site Operations	Road sweeper for	Water
	maintenance of road	
	surfaces and wash bay hose	
	for washing bins, trucks	
Odour Controls	Used on an as required	Chemical – diluted with
	basis if any odours are	water
	detected at the facility	
Offices	Administration &	Electricity
	Management of the facility	
	usage of electricity for	
	computers, phones etc	

Table 9.2: Usage of Energy and Resources, 1st January 2011 – 31st December 2011

Resource	Consumption for Reporting Period	
Site Management		
Odour Control Chemicals	Approximately 60 litres	
Electricity	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	1,675,450 (litres approx) including our	
	fleet of on the road vehicles and on site	
	plant / equipment	
Hydraulic Oils	10,500 (litres approx)	

10. Tank, Pipeline and Bund Testing and Inspection Report

The underground drainage and tank network was surveyed during the last reporting period (2011) as per the requirement of our licence and requested by the EPA due to the readings of oil in the pipe at monitoring location SD1. This work was carried out during Q1 of 2011.

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.

11. Financial Provision for the Facility

Financial provision for the company is outlined in our Environmental Liabilities Risk Assessment report which was prepared by Tobin Consulting Engineers. This was submitted and accepted by the EPA. There were no changes to the Financial Provision of the site during this reporting period.

During a recent audit of the facility the Agency have asked for this provision to be reviewed and that process will be carried out during Q1 of 2013 and submitted to the Agency for review / approval.

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.

During 2012 there was a significant change to the Management Structure of the company which resulted in an external consultancy firm being hired to assist with the strategy and structure of the company during the current tough financial climate. Sean Curran continues to own and operate the company and he is working alongside the consultants at the top level of the company of a daily basis to implement the required plan. A new Financial Controller and HR Manager were other significant changes during 2012 and these have all been reflected in the organisation chart attached to this report.

We believe the structure we have in place to be adequate for running an operation of this size and we have Managers in place responsible for all key areas of the business. All members of the Management Team play an important role in the decision making at the company at that is even more important during these tough financial times.

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 Waste 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.

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

Barna Waste 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.

14. Environmental Management Plan & Targets / Objectives

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 Waste have produced a new EMP for 2013 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 Waste has made in all areas during this reporting period and outlines the major tasks ahead during the new reporting period.

This will show the Agency or reader of the document what progress was made in key elements of the business over the past 12 months and what targets have been set out for the next 12 months as a priority. Long term goals for the next five years are also included to ensure the long term progress of the company in relation to our products, services and the legislation we are governed by.

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

15. AER / PRTR Emissions Data for 2012

The EPA requires Barna Waste 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 2012 AER / PRTR Emissions Report Database will be completed before end of March 2012 as required.

The AER / PRTR will be included in this report as appendix D.

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 2013 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 Waste.

Final Comments

This year's Annual Environmental Report has been compiled in the same format as previous years to keep it consistent. All figures and updates quoted are specifically for the 2012 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 Waste during 2012 in all areas of the business. We believe the report in its current format achieves this successfully. However Barna Waste 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 Waste's 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 2013.

Appendices

The following documents have been requested by the Agency and are attached to this document and form part of the final report:

Appendix A: Company Organisation Chart **Appendix B:** Map of site monitoring locations

Appendix C: EMP & Schedule of Targets and Objectives

Appendix D: AER / PRTR Workbook for 2012

Next Submission

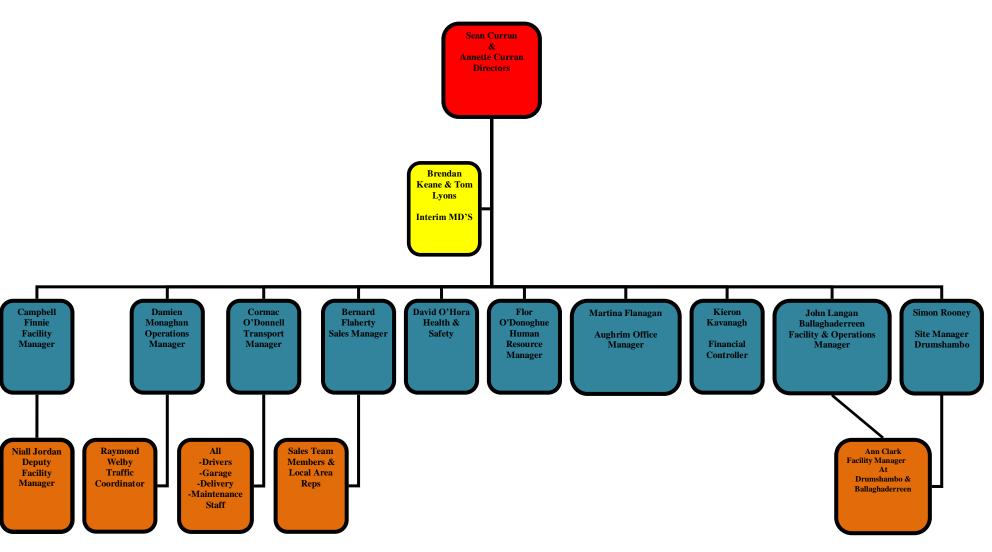
The next submission of this report is due on 31st January 2014 and it will be in the new format being adopted by the EPA.

Contacts

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

APPENDIX A

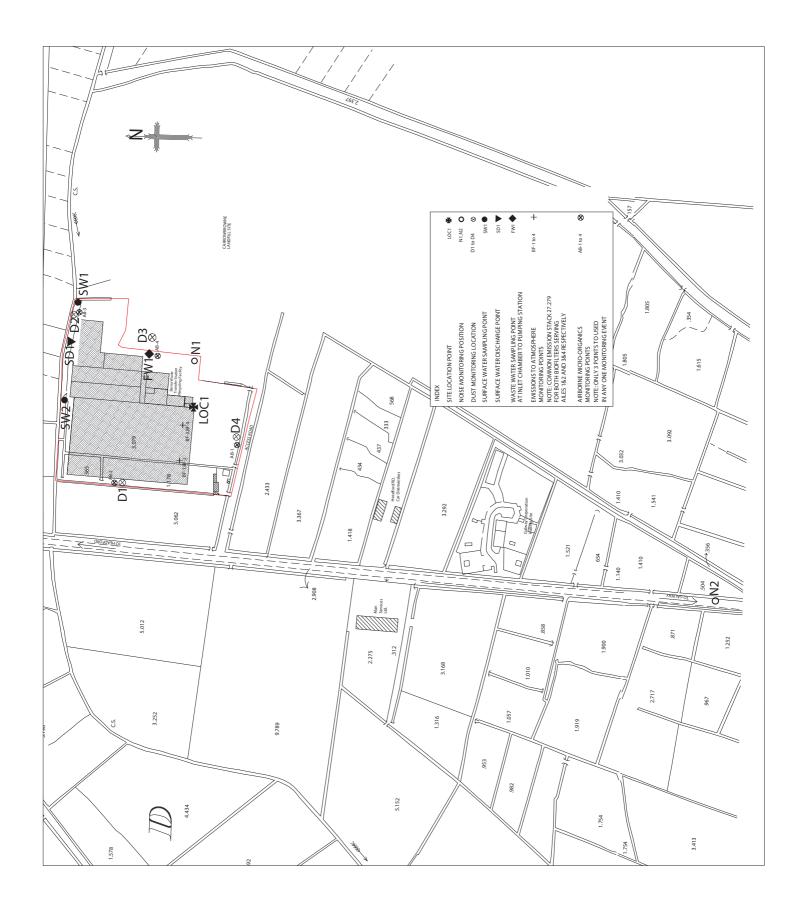
COMPANY ORGANISATION CHART



Barna Waste – Annual Environmental Report for 2012 Reporting Period Page 76 of 108

APPENDIX B

SITE MONITORING LOCATIONS



_	_		+	_	Client: BARNA WASTE LTD.	Prepared K.		Consulting, Civil and Structural Failgreen Rose, Failgreen Ro
_			t	L	Project: Recycling depot & composting plar Carrowbrowne, Co. Galway	Date:	d: McP r 2005	Panick J. Tobin & Co. kst. fax: +353-(0)61-565211 fax: +353-(0)61-565398 e-mail: info@tobin.ie www.tobi
_	July 2005	Instant to EPA Dos		E.McP.	LOCATION OF MONITORING POINTS	Scale @	KELLY	Drawing No.: 1015-6001

APPENDIX C

EMP & Schedule of Targets / Objectives for 2012



Schedule of Targets and Objectives &

Environmental Management Plan 2012 / 2013

Submitted January 2013

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.CORMAC O'DONNELL

(Transport Manager)

MR. DAMIEN MONAGHAN

(Operations Manager)
MR DAVID O'HORA
(Health & Safety Manager)
MR. NIALL JORDAN
(Deputy Facility Manager)
MR. BERNARD FLAHERTY

(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 2013 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 2012 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 / OBJECTIVE	Owner	Completion Target	Update	Update
EMS system - continue the review and development of the EMS system ensuring all departments processes and procedures are included and that ISO 14001 accreditation is maintained in 2012	Facility Manager	Q4 2012	ISO 14001 is fully up to date and the company maintained it's ISO 14001 accreditation via an audit in October 2012	COMPLETE
Production – fully implement the new swarf briquetting machine into our production and identify good sustainable markets for the end product	Operations Manager Facility Manager	Q1 2012	This machine is fully operational and producing briquettes from the industrial swarf we collect	COMPLETE
Site infrastructure — make changes to the redundant area between both transfer stations and transform into an employee walkway to allow safer and better access to the canteens / toilets	Operations Manager Facility Manager	Q1 2012	This walkway is now in place and used by staff on a daily basis	COMPLETE
Site Visits / Tours — introduce the visits / tours to the site by local schools to increase promotion of the site and recycling i	Facility Manager	Q1 2012	The company successfully hosted several school and college visits during 2012 and actively encourage visitors	COMPLETE
Security – improve security measures on site by introducing site patrols 'through the night' during non operational hours. This should cover all areas of the site	Facility Manager Operations Manager	Q1 2012	Security staff now patrol the site on an hourly basis and scan at pre-determined points on site to show the patrols are actually carried out	COMPLETE

T	<i>a</i> .:	00.0010		COMPLETE
Training – carry out	Composting	Q2 2012	Two dedicated and	COMPLETE
cross training on all	Manager		trained operators are	
areas of the compost to	Operations		now in place within	
ensure proper trained	Manager		the composting	
'team' of people is in			building	
place for this area	3.5	00.0010	5 . 2012 .	GELL DEED O
Marketing – carefully	Management	Q2 2012	During 2012 the	STARTED &
plan and utilise a full	Team		company hired a	ONGOING
advertising campaign			marketing executive	
that fully promotes our			and the marketing	
products / services in			programme for the	
the right geographical			company is in place.	
areas			It was introduced	
			during 2012 & will	
G: E	3.6	0.4.2012	continue in 2013.	COMPLETE
Site Entrance – review	Managing	Q4 2012	New concrete was laid	COMPLETE
the rise / drop off at	Director		in this area during the	
the front end of			past year. Due to the	
weighbridge in and the back end of			volume of traffic and	
			the surface in this area	
weighbridge out and even out the surface to			it is likely this work will have to be done	
			on an annual basis but	
improve access for			it was resolved for	
vehicles coming in and			2012.	
going out of the site New site entrance –	Managing	Q3 2012		STARTED &
	Director	Q3 2012	This project was only	ONGOING
complete upgrades and changes to allow a	Director		partially completed and will be completed	ONGOING
new entrance to be			fully during 2013.	
opened giving access			Tuny during 2013.	
directly to the				
administration offices				
at the site without				
having to come				
through the transfer				
station				
Civic Amenity Site -	Facility	Ongoing	No significant changes	COMPLETE
continue to develop	Manager	Ongoing .	were requested or	
the civic amenity site	1,14114501		made to the civic	
via customer feedback			amenity site during	
to ensure the best			2013 and the site is	
possible service is			more than adequate to	
being provided and			meet the demands of	
that all waste streams			our customers	
are being catered for				
Litter controls –	Operations	Ongoing	This process continues	COMPLETE
continue the process	Manager	5 6	every day at the end of	
of assigning a member	3.		the production shift	
of each Production			and will continue as a	
Shift to litter duty as			practice permanently.	
part of site				
part of site				

Dust control – continue the process of DAILY roadsweeping at the site to maintain / improve on external dust levels in areas where traffic can rise dust in periods of dry weather	Operations Manager & Facility Manager	Ongoing	This process continues every day in the afternoon on all main hardstand areas of the site and this will continue as a permanent practice moving into 2013.	COMPLETE
Weighbridge – implement a maintenance programme on the two site weighbridges that will ensure the bridges are cleaned and maintained on a monthly basis to improve reliability / performance of both bridges	Operations Manager / Facility Manager	Ongoing	Cleaning of the weighbridges takes place on a monthly basis and we have experienced no problems with the performance of the bridges since it was introduced. We will continue this programme moving forward.	COMPLETE
Weighbridge – carry out a tender programme for the contracts in relation to weighbridge maintenance / repair / calibration for 2012. This will identify a preferred, suitably qualified candidate and be a cost saving initiative	Facility Manager / Financial Controller	Q4 2012	This process was implemented and relevant company's invited to tender. Precia Molen were successful for 2012/2013. This tender process will be carried out again in December 2013.	COMPLETE
Housekeeping – Complete work on extending the current bale storage shed to increase the capacity and allow space for more materials to be stored inside.	Operations Manager / Managing Director	Q4 2012	This work was not started during 2012 and will be included as a goal again for 2013.	INCOMPLETE
Housekeeping – continue to have someone within the garage area responsible for the housekeeping and cleaning of this area at the end of each working day especially in relation to the bund and oils	Operations Manager / Transport Manager	Ongoing	This process is fully in place and working successfully. We will continue this for the new reporting period.	COMPLETE

TD 1 170 1	E 114	02 2012	D1 1 C	INCOMPLETE
Environmental Targets	Facility	Q2 2012	Due to the closure of	INCOMPLETE
– investigate and then	Manager /		Gypsum Ireland and	
establish a working	Managing		the limited qty's of	
process for Gypsum	Director /		gypsum coming into	
Material that will	Sales		the site this work is	
allow the material to	Manager		not complete. We are	
be processed /			in the process of trying	
recycled on site.			to find a new and	
			sustainable option for	
			the gypsum material.	
Environmental Targets	Facility	Ongoing	This process is carried	COMPLETE &
 continue to develop 	Manager &		out on a daily basis	ONGOING
the energy and power	Operations		and we are now much	
saving programmes	Manager		more aware of the	
within the waste	C		need to reduce usage	
transfer station and all			of lights / diesel etc	
areas of the site to			during our daily	
reduce the usage			operations.	
during both			operations.	
operational and non				
operating hours				
Environmental Targets	Facility	Ongoing	Barna Waste are now	COMPLETE
- continue to search	Manager /	Oligonig	in contact on a daily	COMILLIL
for regular outlets for	Managing		basis with three of the	
_	Director			
the high grade metals	Director		biggest metal	
to ensure this material			company's in the UK	
moves regularly and is			to ensure we can move	
not stockpiled			high grade material	
	D 111		whenever required	COLUDI ETTE
Environmental Targets	Facility	Ongoing	This process was	COMPLETE
– continue the process	Manager /		carried out	
of tendering all grades	Operations		successfully through	
of plastic on a regular	Manager		2012 and will continue	
basis to ensure the best			into 2013.	
market price is				
achieved and no				
stockpiles are allowed				
to accumulate				
Environmental Targets	Facility	Ongoing	Barna Waste try to	ONGOING
 continue to review 	Manager		support local markets	
the Irish recycling			we do so for plastic	
market to identify			bottles, metal, glass,	
possible recycling			tyres, WEEE, timber	
options for various			& batteries. We are	
materials within the			currently exploring an	
Country to reduce our			option to recycle	
carbon footprint			Gypsum and Hard	
			Plastic within the State	
			& will continue to try	
			& support Irish	
			markets moving	
			forward.	
			iorward.	

Environmental Targets – improve drainage network at wash bay to ensure water readings are back within the specifications of our licence Environmental Targets	Managing Director Facility	Q1 2012 Q2 2012	This work remains incomplete and will be completed during the first half of 2013. Barna Waste	INCOMPLETE
 identify a solution to the reduction of market outlets for recycling timber and try to establish new outlets / contracts for this material 	Manager		successfully negotiated a contract with Eirebloc in Cork during 2012 and have an agreement moving into 2013.	
Composting - identify markets (more than one) for the processed compost material as soon as possible	Composting Manager / Managing Director	Q2 2012	The composting process was not operational during 2012 and therefore this action will be kept open and be more relevant in 2013.	ONGOING
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.	Composting Manager / Managing Director	Ongoing	The composting process was not operational during 2012 and therefore this project was put on hold and will be implemented during 2013.	ONGOING
Composting - continue to develop the commercial collection routes for composting and provide training to all commercial customers on how it works	Management Team	Ongoing	Our commercial routes for composting and now operated throughout Connacht and are working successfully.	COMPLETE
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.	Operations Manager / Health & Safety Manager	Ongoing	Our Health & Safety Manager introduced a programme of documenting maintenance records on a weekly basis and this process is working successfully. It will continue and will be expanded further during 2012.	COMPLETE

Permitted Site – complete construction of the new building and surrounding area on the permitted site	Managing Director	Q2 2012	The new building on this site has been constructed. Surrounding area are now finished and more work is needed to make this building operational during 2013.	STARTED & ONGOING
Permitted Site - Housekeeping: clear the permitted site of all scrap material and ensure all equipment removed is done so in a proper / approved manner and for the purpose of recycling where possible.	Operations Manager / Facility Manager	Q2 2012	This programme is not complete but worked has started on this. This programme is a priority for the first half of 2013.	STARTED & ONGOING
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	Q2 2012	As soon as the above work is completed the company will apply to the EPA to have this site incorporated into our EPA licence.	INCOMPLETE
New Site – finalise plans for the new site purchased on the Headford Road and put together a detailed business plan for the use of this site. A report should be submitted to the Agency in this regard.	Facility Manager / Managing Director	Q2 2012	This programme is not complete but worked has started on this. This programme is a priority for the first half of 2013.	INCOMPLETE
Storage Hub / Car Park – as a 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	Managing Director	Q4 2012	A new compound for the company's skips was introduced during 2012 and is working successfully. We will continue this process for bins moving into 2013.	STARTED & ONGOING
Landscaping - begin and complete work on facility landscaping as per EPA licence requirements in Carrowbrowne	Managing Director / Facility Manager	Q4 2012	No work was carried out on this during 2012.	INCOMPLETE

Safety - continue the vaccination programme for employees against Hepatitis A&B.	Health & Safety Manager	Ongoing	This process was continued during 2012 and all relevant employees now have vaccinations up to date. This will be an ongoing programme moving forward.	COMPLETE
Safety – carry out daily checks of firefighting equipment to ensure everything is in good working order at all times in case of an emergency and fully equipped at all times for protection against a major incident	Health and Safety Manager	Ongoing	This process is carried out on a daily basis and results are logged. This will be an ongoing programme moving forward.	COMPLETE
Management Review – ensure a management review meeting is held at least once per annum to discuss training, staffing, budgets and progress in general. Minutes of the meeting should be recorded and kept for review	Management Team	Q3 2012	This meeting was held in October 2012 and minutes are available for review. The next meeting is scheduled for October 2013.	COMPLETE
Collection activities – continue to review and improve the structure of our domestic routes to make us more efficient / economical in this area	Transport Manager	Ongoing	A lot of work was carried out this during 2012. We introduced new twinpac collections and many of our routes changed as a result. Significant improvements were able to be made in this area and we will continue to develop this during 2013.	STARTED & ONGOING
Training - put another member of staff through the FAS Waste Management Course to provide further expertise in this area for the company moving forward (currently 2 people qualified)	Facility Manager / Managing Director	Q4 2012	This process was not completed.	INCOMPLETE

Monitoring – carry out a tender for monitoring programmes during 2012 to indentify the best partners for all types of monitoring and try to use the same contractors on all of Barna Waste's sites. This should also been done with cost saving	Facility Manager	Q4 2012	This process was successfully carried out during 2012 and monitoring contractors have been appointed as a result of this process for 2013.	COMPLETE
in mind. Cost Saving – Work towards maximising cost savings in all areas due to current economic climate. This should incorporate all areas of the business. Review quarterly.	Management Team / All Staff	Ongoing	The company have implemented a weekly meeting between Management where company finances and cost saving programmes are discussed. Excellent progress has been made in some areas. This programme will be ongoing for the duration of 2013.	STARTED & ONGOING
IT – improve the IT links between all 4 of the company's facilities so that systems are accessible and live data available in all locations	IT Consultant	Q4 2012	This project was successfully implemented during 2012.	COMPLETE

SUMMARY of 2012 PERFORMANCE

The company performed very well towards achieving its list of targets and objectives for 2012 and we believe we achieved most of our major goals that we set ourselves. Some examples of the major goals accomplished during 2012 are below:

- The retention and re-awarding of our ISO14001 accreditation was vitally important for the future of the company
- The new access tunnel constructed between our two buildings has significantly improved safety on site and access to and from our production areas
- Hosting of site visits / tours has helped to advertise and sell our company and spread the message of recycling
- Improved night time security at the facility by introducing patrols
- Dedicated and trained composting staff in place
- Marketing Executive has been hired and put in place to ensure the company markets itself and advertises it's products / services much better moving forward
- Established a new and sustainable outlet for recycled timber
- Completed improvements to the composting building to allow material to start coming into the facility again
- New building constructed on permitted site which will be utilised to improve our site moving forward into the future
- Improved the IT links and access to data between all four of the company's facilities
- Regular Management meetings in place
- Significant cost saving programmes started which can be sustained to help protect the future of the company

Overall we would consider 2012 to be a positive year for the company. Like most company's it is essential to the future success of the company that some cost saving has to be made a priority and during 2012 we were able to focus as a Management Team on implementing important policies in relation to cost that will continue through into the new reporting period. Regular Management meetings are now in place which helps with communication and to focus on some specific goals which are important to the company.

The hiring of a new Marketing Executive is seen as a very positive step for the company as we must grow this side of our business and get 'our message' out into the public domain and better market and advertise our products and services. The company should reap the benefits of this decision in 2013 and beyond.

The changes made internally within our composting building will allow us to ensure this project is now a real focus of our business and is a success moving forward. A dedicated team of operators are now in place which should ensure the composting process works to it's full potential. It is essential for the future success of our company that this process get's through validation and that will be a major focus starting 2013.

The list of successes achieved during 2012 above are wide ranging and again shows the company's commitment to improving all areas of our business moving forward.

New Targets & Objectives for 2013

The targets and objectives for 2013 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.

For the purpose of this year's submission (as in previous years) targets are based on priorities for the next year but are obviously set with the long term goals of the facility in mind.

Any targets not achieved during 2012 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.

The first batch of targets & objectives for 2013 are one's which were on the list last year and were either not achieved or are ongoing and important to document for the company to achieve again during this reporting period:-

Owner	Completion Target
Facility Manager	Q4 2013
E '1' M	04 2012
Facility Manager	Q4 2013
M ' D' /	04 2012
Managing Director	Q4 2013
Onenations Managen	Onssins
Operations Manager	Ongoing
Onemations Managem	Onssins
_	Ongoing
& Facility Manager	
Operations Manager /	Ongoing
	Oligonig
Tacinity Manager	
Facility Manager /	Q1 2013
	Q1 2013

Environmental Targets — continue to develop the energy and power saving programmes within the waste transfer station and all areas of the site to reduce the usage during both operational and non operating hours 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 Environmental Targets — improve drainage network at the company wash bay. Composting – identify markets (more than one) for the processed compost material in advance of the 6h batch being completed for validation Composting – identify markets (more than one) for the processed compost material in advance of the 6h batch being completed for validation Composting – inalise a plan to introduce brown bins for the domestic customers. Training programmes for the domestic customers should be developed as part of this project. Composting – continue to develop the commercial collection routes for composting and provide training to all commercial customers on how it works Operations Manager / Managing Director / Management Team Ongoing Management Team Ongoing Manager Ongoing Manager Ongoing Manager Ongoing / Manager / Manager Ongoing / Manager Ongoing / Manager / Manager Ongoing / Manager			
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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 Environmental Targets – improve drainage network at the company wash bay Composting – identify markets (more than one) for the processed compost material in advance of the 6th batch being completed for validation Composting – finalise a plan to introduce brown bins to all our domestic customers. Training programmes for the domestic customers should be developed as part of this project. Composting – continue to develop the commercial collection routes for composting and provide training to all commercial customers on how it works 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. Permitted Site – Housekeeping: clear the permitted site of all scrap material and ensure all equipment removed is done so in a proper / approved manner and for the purpose of recycling where possible. Permitted site – once this site in tegrated into the EPA licence New Site – finalise plans for the new site purchased on the Headford Road and put together a detailed business plan for the use of this site. A report should be submitted to the Agency in this regard. Storage Hub / Car Park – as a 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 Landscaping - begin and complete work on facility landscaping as per EPA licence requirements Safety - continue the vaccination programme for	energy and power saving programmes within the	Operations Manager	
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recycling market to identify possible recycling options for various materials within the Country to reduce our carbon footprint Environmental Targets – improve drainage network at the company wash bay Composting - identify markets (more than one) for the processed compost material in advance of the 6th batch being completed for validation Composting - finalise a plan to introduce brown bins to all our domestic customers. Training programmes for the domestic customers. Training programmes for the domestic customers should be developed as part of this project. Composting - continue to develop the commercial collection routes for composting and provide training to all commercial customers on how it works 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. Permitted Site - Housekeeping: clear the permitted site of all scrap material and ensure all equipment removed is done so in a proper / approved manner and for the purpose of recycling where possible. 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 New Site – finalise plans for the new site purchased on the Headford Road and put together a detailed business plan for the use of this site. A report should be submitted to the Agency in this regard. Storage Hub / Car Park – as a 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 Landscaping - begin and complete work on facility landscaping as per EPA licence requirements Safety - continue the vaccinat	operating hours		
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landscaping as per EPA licence requirements Safety - continue the vaccination programme for Health & Safety Ongoing	distribution		
Safety - continue the vaccination programme for Health & Safety Ongoing			Q4 2013
employees against Hepatitis A&B. Manager		· · · · · · · · · · · · · · · · · · ·	Ongoing
	employees against Hepatitis A&B.	Manager	

Safety – carry out daily checks of firefighting equipment to ensure everything is in good working order at all times in case of an emergency and fully equipped at all times for protection against a major incident	Health and Safety Manager	Ongoing
Management Review – ensure a management review meeting is held at least once per annum to discuss training, staffing, budgets and progress in general. Minutes of the meeting should be recorded and kept for review	Management Team	Q4 2013
Collection activities – continue to review and improve the structure of our domestic routes to make us more efficient / economical in this area	Transport Manager	Ongoing
Training - put another member of staff through the FAS Waste Management Course	Facility Manager / Managing Director	Q4 2013
Monitoring – carry out a tender for monitoring programmes during 2013 to indentify the best partners for all types of monitoring and try to use the same contractors on all of Barna Waste's sites. This should also been done with cost saving in mind.	Facility Manager	Q4 2013
Cost Saving – Work towards maximising cost savings in all areas due to current economic climate. This should incorporate all areas of the business. Review quarterly.	Management Team / All Staff	Ongoing

The following are a list of \mathbf{new} targets / objectives developed for 2013 to ensure continuous improvement of the site and the company moving forward.

TARGET / OBJECTIVE	Owner	Completion Target
Sales / Marketing – target the top 10 grossing multi-	Sales Manager	Q2 2013
national organizations in Connacht and try to		
establish relationships with each		
Sales / Marketing – carry out a full review of all	Sales Manager	Q2 2013
commercial customer to maximize recycling % and		
the value of recyclable materials being collected		
No Pay No Lift Policy – fully develop and	Management Team /	Q2 2013
implement on all trucks our new NPNL policy	Engineering	
during 2013		
Fully roll-out Twin Pac collections for domestic	Management Team /	Q2 2013
waste / recyclables to all areas to reduce costs and	Engineering	
carbon footprint		
Marketing – develop a full and detailed company	Sales Manager	Q1 2013
brochure for commercial customers to help with	Marketing Executive	
marketing of the company's products / services in		
this sector		
Marketing – re-develop and re-design the company's	Sales Manager	Q2 2013
website to modernise and add new features such as	Marketing Executive	
the ability to order and pay for our products and		
services on line		

Marketing – work with local schools who are seeking Green Flag approval to ensure Barna Waste are the major company young people associate with recycling	Sales Manager Marketing Executive	Q2 2013
Marketing – market the company's composting facility with a view to ensuring maximum qty's of material are available to the facility	Sales Manager Marketing Executive	Q1 2013
Training – put the Management Team through an extensive Management course to enhance skills and ensure the company Management has a common message moving forward at the top level	Management Team	Q1 2013
Environmental Targets – fully implement the project of 'zero waste to landfill' and find alternative recovery routes for the company's general waste through baling, wrapping and export via TFS	Management Team	Q2 2013
Environmental Targets – successfully complete validation approval from DAFF within the composting process and have the composting fully operational	Operations Manager	Q2 2013
Management System – transfer the company's Environmental Management System into a fully electronic and paperless model	Facility Manager	Q3 2013
Health & Safety Management System – prepare the H&S management system to a standard that will allow the company to pursue the ISO 18001 award	Health & Safety Manager	Q4 2013
Product Recycling – implement a quality review on all end products to try and make them more marketable and establish higher revenue streams for them	Operations Manager Facility Manager	Q3 2013
Housekeeping – carry out a full and detailed review in ALL areas of the site and remove all redundant products to improve housekeeping at the facility	Operations Manager Facility Manager	Q3 2013
Site Infrastructure – find a way of enclosing the area between the baling and bale storage areas to improve housekeeping and litter in this area of the site	Managing Director	Q2 2013

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 2013 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 2013 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 2012, if achieved will see us achieve the following:

- Maintain ISO 14001 accreditation and have a high quality EMS system
- Have a fully operational composting facility
- Continue to focus on cost saving programmes to ensure the future of the company is strong
- Develop in a major way our advertising and marketing programmes
- Have a new and improved company website developed
- Significantly improve housekeeping at the facility
- Have a paperless Environmental Management System in place
- Be prepared to apply for ISO 18001 accreditation
- Establish ourselves in the local communities with schools and young people
- Be in a strong position to offer customers a 'zero waste to landfill' option
- Have a strong fleet of Twin Pac vehicles on the road
- Have implemented a No Pay No Lift policy which will save the company significant money

This is only a summary on some of the key points where we can improve because of the aggressive and wide ranging goals / objectives we have set for 2013.

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 2012 and redefines new targets and objectives for 2013. 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 2013. 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 2013. 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 2013 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 January 2014.

APPENDIX D

AER / PRTR Completed Workbook for 2012



| PRTR# : W0106 | Facility Name : Bruscar Bhearna Teoranta | Filename : Complete 2012 AER PRTR Workbook.xls | Return Year : 2012 |

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Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.15

REFERENCE YEAR 2012

	1. FACIL	JITY ID	ENTIFI	CATION
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1.1 ACIEIT I IDENTIFICATION	
Parent Company Name	Bruscar Bhearna Teoranta
Facility Name	Bruscar Bhearna Teoranta
PRTR Identification Number	W0106
Licence Number	W0106-02

Waste or IPPC Classes of Activity

Waste or IPPC Classes of Activity						
No.	class_name					
	Storage prior to submission to any activity referred to in a preceding					
2.42	paragraph of this Schedule, other than temporary storage, pending					
3.13	collection, on the premises where the waste concerned is produced.					
0.44	Blending or mixture prior to submission to any activity referred to in a					
3.11	preceding paragraph of this Schedule.					
	Repackaging prior to submission to any activity referred to in a					
3.12	preceding paragraph of this Schedule.					
4.40	Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.					
4.12	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					
4.13	produced.					
	Recycling or reclamation of organic substances which are not used					
	as solvents (including composting and other biological transformation					
4.2	processes).					
4.3	Recycling or reclamation of metals and metal compounds.					
4.4	Recycling or reclamation of other inorganic materials.					
Address 1	Carrowbrowne					
	Headford Road					
Address 3	Galway					
Address 4						
	Galway					
Country						
Coordinates of Location						
River Basin District						
NACE Code						
AER Returns Contact Name	Treatment and disposal of non-hazardous waste					
AER Returns Contact Name AER Returns Contact Email Address						
AER Returns Contact Email Address AER Returns Contact Position						
AER Returns Contact Telephone Number						
AER Returns Contact Mobile Phone Number						
AER Returns Contact Fax Number						
Production Volume	68646.0					
Production Volume Units	tonnes					
Number of Installations	1					
Number of Operating Hours in Year	4160					
Number of Employees						
User Feedback/Comments						
Web Address	www.barnawaste.com					

2. PRTR CLASS ACTIVITIES

2. FRIR CLASS ACTIVITIES	
Activity Number	Activity Name
5(c)	Installations for the disposal of non-hazardous waste
5(c)	Installations for the disposal of non-hazardous waste
50.1	General

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

3. SOLVENTS REGULATIONS (S.I. No. 543 of 200	J2)
Is it applicable?	
Have you been granted an exemption?	
If applicable which activity class applies (as per	
Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being	
used ?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE	Guidance on waste imported/accepted onto site
Do you import/accept waste onto your site for on-	
site treatment (either recovery or disposal	
activities) 2	

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

4.1 RELEASES TO AIR

Link to previous years emissions data

| PRTR# : W0106 | Facility Name : Bruscar Bhearna Teoranta | Filename : Complete 2012 AER PRTR Workbook.xls | Return Year : 2012 |

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SECTION A: SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR Plea				Please enter all quantities	in this section in KG	s		
POI	POLLUTANT METHOD				QUANTITY			
		Method Used						
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0		0.0	0.0

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

SECTION B: REMAINING PRTR POLLUTANTS

OLOTION B. REMAINING I RIKT OLLOTARI									
RELEASES TO AIR			Please enter all quantities in this section in KGs						
POLLUTANT METHOD			QUANTITY						
			Method Used						
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
					0.0	1	0.0	0.0	

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

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

			Please enter all quantities in this section in KGs						
	POLLUTANT			MET	HOD	QUANTITY			
			Method Used						
	Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
1						0.0		0.0	0.0

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

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KGlyr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

....,

Landfill:	Bruscar Bhearna Teoranta	uscar Bhearna Teoranta									
Please enter summary data on the quantities of methane flared and / or utilised			Meti	hod Used							
				Designation or	Facility Total Capacity m3						
	T (Total) kg/Year	M/C/E	Method Code	Description	per hour						
Total estimated methane generation (as per											
site model)	0.0				N/A						
Methane flared						(Total Flaring Capacity)					
Methane utilised in engine/s					0.0	(Total Utilising Capacity)					
Net methane emission (as reported in Section											
A above)	0.0				N/A						

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4.2 RELEASES TO WATERS

Link to previous years emissions data

| PRTR# : W0106 | Facility Name : Bruscar Bhearna Teoranta | Filename : Complete 2012 AER PRTR Workbook.xls | Return Year : 2012 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

	Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only concerns Releases from your facil
S	Please enter all quantities in this section in KGs

	RELEASES TO WATERS				Please enter all quantities in this section in KGs					
PO	LLUTANT						QUANTITY			
				Method Used						
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year		
					0.0	0.0	0.0	0.0		

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

SECTION B: REMAINING PRTR POLLUTANTS

	RELEASES TO WATERS				Please enter all quantities	in this section in KGs	5		
P	OLLUTANT				QUANTITY				
				Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
					0.0	0.0	0.0	0.0	

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

SECTION C: REMAINING POLLUTANT EMISSIONS (as required in your Licence)

	RELEASES TO WATERS				Please enter all quantities in this section in KGs					
PO	LLUTANT				QUANTITY					
				Method Used						
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year		
					0.0) ((0.0	0.0		

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

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

| PRTR# : W0106 | Facility Name : Bruscar Bhearna Teoranta | Filename : Complete 2012 AER PRT 29/03/2013 18:18

SECTION A : PRTR POLLUTANTS

	OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMEN	IT OR SEV	VER		Please enter all quantities	in this section in KGs		
	POLLUTANT		METHO	D				
			Meth	nod Used				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0	0 00	0.0

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

SECTION B : REMAINING POLLUTANT EN								
	OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATME	NT OR SE			Please enter all quantitie	s in this section in KGs		
	POLLUTANT		MET				QUANTITY	
				Method Used	FW1			
Pollutant No.	Name	M/C/E	Method Code		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
				ISO 17025 - Based on				
				USEPA approved Hach				
306	COD	M	ALT	Method 8000	352.83	9 352.839	0.0	0.0
				ISO 17025 - Standard				
				Methods for the				
				Examination of Water and				
303	BOD	M	ALT	Wastewater, 21ed, 2005	158.08	6 158.086	0.0	0.0
				ISO 17025 - Standard				
				Methods for the				
				Examination of Water and				
314	Fats, Oils and Greases	M	ALT	Wastewater, 21ed, 2005	48.83	9 48.839	0.0	0.0
				ISO 17025 - Standard				
				Methods for the				
				Examination of Water and				
240	Suspended Solids	M	ALT	Wastewater, 21ed, 2005	206.74	1 206.741	0.0	0.0
				Based on Sulphate in				
				Waters Effluents and Soils,				
				2nd Edition (1988), Method				
343	Sulphate	M	ALT	E	62.26	1 62.261	0.0	0.0
				Salicylate method based on				
				Methods for the				
				examination of water and				
				associated materials,				
238	Ammonia (as N)	M	ALT	Ammonia in waters, 1981	21.08	5 21.085	0.0	0.0

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

Page 1 of 1 Link to previous years emissions data

4.4 RELEASES TO LAND

Link to previous years emissions data

| PRTR# : W0106 | Facility Name : Bruscar Bhearna Teoranta | Filename : Complete 2012 AER PRTR Workbook.xls | Return Year : 2012 |

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SECTION A: PRTR POLLUTANTS

	RELEASES TO LAND				Please enter all quantities	in this section in KG	S
PO	LLUTANT		METHO	D		QUANTITY	
			Met	hod Used			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0		0.0

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

SECTION B: REMAINING POLLUTANT EMISSIONS (as required in your Licence)

	REL	EASES TO LAND			Please enter all quantitie	s in this section in K	Gs
	POLLUTANT		METI	HOD		QUANTITY	
			N	lethod Used			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0	.0	0.0 0.0

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE | PRTR#: W0106 | Facility Name : Bruscar Bhearna Teoranta | Filename : Complete 2012 AER PRTR Workbook.xls | Return Year : 2012 |

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		101 2110 01	Please enter	all quantities on this sheet in Tonnes	oranta r nonam	o . Compic	10 2012 NEIVI 10110 WOM	Jook No Itolaii I Ioai . L				0
			Quantity (Tonnes per Year)				Method Used		Haz Waste: Name and Licence/Permit No of Next Destination Facility Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
Transfer Destination	European Waste Code	Hazardous	,	Description of Waste	Waste Treatment Operation	M/C/E	Method Used	Location of Treatment			,	,
	19 12 04	No	23.94	Clear plastic film	R12	М	Weighed		Leinster Environmental,WP 2008/06	Clermont Business Park ,Haggardstown ,Dundalk ,Co.Louth,Ireland Cotton Way,Loughborough		
To Other Countries	19 12 04	No	70.8	Clear plastic film	R12	М	Weighed	Abroad	Jayplas,43451	,Leicestershire,LE11,United Kingdom Denmark House Brick Close,Kiln Farm,Milton		
To Other Countries	19 12 04	No	25.5	Clear plastic film	R12	М	Weighed	Abroad	Choice Waste Management Ltd.,CB/WE5536VU	Keynes,Buckinghamshire MK11 3DP,United Kingdom		
To Other Countries	19 12 04	No	90.82	Plastic Trays/Cartons	R12	М	Weighed	Abroad	WRC Recycling ,IRE/G068/08	Auchans Road ,Houston ,Johnstone Renfrewshire ,PA6 7EE ,United Kingdom Cotton Way,Loughborough		
To Other Countries	19 12 04	No	100.12	Plastic Trays/Cartons	R12	М	Weighed	Abroad	Jayplas,43451	,Leicestershire,LE11,United Kingdom 96 Toft Hill,Bishop Auckland,County		
To Other Countries	19 12 04	No	23.1	Plastic Trays/Cartons	R12	M	Weighed	Abroad	GFSL Limited,IRE/G217/12	Durham,DL14 0JA,United Kingdom Cotton Way,Loughborough ,Leicestershire,LE11,United		
To Other Countries	19 12 04	No	325.82	Plastic Bottles - PET	R12	М	Weighed	Abroad	Jayplas,43451	Kingdom		
To Other Countries	19 12 04	No	44.22	Plastic Bottles - PET	R12	М	Weighed	Abroad	WRC Recycling ,IRE/G068/08	Auchans Road ,Houston ,Johnstone Renfrewshire ,PA6 7EE ,United Kingdom Killycard Industrial		
Within the Country	19 12 04	No	462.62	Plastic Bottles - PET	R12	М	Weighed	Offsite in Ireland	08-0022-01	Estate,Bree,Castleblayney,C o.Monaghan,Ireland 30 Lynton Gardens ,Darlington,Co.		
To Other Countries	19 12 04	No	89.32	industrial plastics - mixed	R12	М	Weighed	Abroad	Envirolink Recycling ,IRE/AG134/12	Durham,DL1 4PB,United Kingdom		
To Other Countries	19 12 04	No	214.74	industrial plastics - mixed	R12	М	Weighed	Abroad	WRC Recycling ,IRE/G068/08	Auchans Road ,Houston ,Johnstone Renfrewshire ,PA6 7EE ,United Kingdom Veerplaat ,40 3313 LJ		
To Other Countries	19 12 04	No	99.06	industrial plastics - mixed	R12	М	Weighed	Abroad	Peute Papier Recycling ,DO 02.2017 MDO	,Dordrecht ,Rotherdam,Netherlands		
To Other Countries	15 01 04	No	75.84	aluminium cans	R12	М	Weighed	Abroad	WRC Recycling ,IRE/G068/08	Auchans Road ,Houston ,Johnstone Renfrewshire ,PA6 7EE ,United Kingdom 81		
To Other Countries	15 01 04	No	40.28	aluminium cans	R12	М	Weighed	Abroad	Complete Recycling Solutions UK Ltd.,Broker licence ire/ag189/12	Broadway,,Peterborough,P E1 4DA Cambridgeshire,United Kingdom Kiffagh,Crosserlough,Ballyja		
Within the Country	15 01 04	No	18.84	aluminium cans	R12	М	Weighed	Offsite in Ireland	Wilton Waste Recycling Ltd,WFP-CN-10-0005-01	mesduff,County Cavan,Ireland		

										Haz Waste: Name and			
										Licence/Permit No of Next			
				Quantity						Destination Facility Non	Haz Waste : Address of Next	Name and License / Permit No. and	
				(Tonnes per						Haz Waste: Name and	Destination Facility	Address of Final Recoverer /	Actual Address of Final Destination
				Year)				Method Used		Licence/Permit No of Recover/Disposer	Non Haz Waste: Address of Recover/Disposer	Disposer (HAZARDOUS WASTE ONLY)	i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
				rour)		Waste	-	Wethou Oseu		Necover/Disposer	recover/Disposer	ONE!)	(IIAZARDOGG WAGTE GRET)
		European Waste				Treatment			Location of				
	Transfer Destination	Code	Hazardous		Description of Waste	Operation	M/C/E	Method Used	Treatment				
L	Hansier Destination	Code	i iazaiuous		Description of Waste	Operation	IVI/C/E	Welliou Oseu	Heatment	Galway Metal	Oranmore ,Co.Galway		
,	Within the Country	10 12 02	No	1724 60	Mixed Scrap Metal 90% ferrous	R12	М	Weighed	Officito in Iroland	Recycling,WR/05	,,,,lreland		
	within the Country	13 12 02	140	1724.00	Wilked Octap Wetai 90 /6 Terrous	1112	IVI	Weighed	Offsite in ireland	Recycling, W1000	Kiffagh,Crosserlough,Ballyja		
										Wilton Waste Recycling	mesduff,County		
,	Mithin the Country	10 12 02	No	E0.00	Mixed Scrap Metal 90% ferrous	R12	М	Weighed	Offsite in Ireland		Cavan, Ireland		
	Within the Country	19 12 02	NO	50.92	wiixed ociap wetai 90 % ferrous	K12	IVI	Weighed	Offsite in fletariu	Ltd, VV11 -C14-10-0003-01	Veerplaat ,40 3313 LJ		
										Peute Papier Recycling ,DO			
	To Other Countries	10 12 01	No	4290.24	Mixed Paper	R12	М	Weighed	Abroad	02.2017 MDO	,Rotherdam,Netherlands		
	10 Other Countries	19 12 01	NO	4200.24	wixed rapei	K12	IVI	Weighed	Abibau	Recycling UK Ltd	,Notiferdam,Netfierlands		
											11 Alvaston Business Park ,		
											Middlewich Road .Nantwich		
										IRE/G069/08 TFS	,Cheshire CW5 6PF ,United		
	To Other Countries	10 12 01	No	7456 54	Mixed Paper	R12	М	Weighed	Abroad	Registration No	Kingdom		
	To Other Countries	19 12 01	NO	7430.34	wixed rapei	K12	IVI	weigned	Abroad	Cellmark (Broker), Irish TFS	Kiliguolii		
										Broker Licence -			
										IRE/G181/11 and			
	To Other Countries	10 12 01	No	172.04	Mixed Paper	R12	М	Majahad	Abroad	IRE/G180/12	Iroland		
	To Other Countries	19 12 01	NO	173.04	wixed Paper	K12	IVI	Weighed	Abroad	IRE/G160/12	.,,,,,,lreland Highlander House ,1 Teign		
											Grove ,East Kilbride		
										Highlander International			
	To Other Countries	10 12 01	No	240.7	Miyad Danar	D12	N.4	Majahad	Abroad	Highlander International	,Glasgow G75 8UZ ,United		
	To Other Countries	19 12 01	No	240.7	Mixed Paper	R12	М	Weighed	Abroad	(Broker),SCO/044794/CB	Kingdom		
											47 Swaffham Rd ,Burwell ,Cambridgeshire ,CB25		
	T- Oth Ot-i	40.40.04	NI-	454.50	Mixed Paper	D40		Martin and	Aborosi	Boost Recycling (Broker),IRE/G082/08	0AN,United Kingdom		
	To Other Countries	19 12 01	No	151.58	Mixed Paper	R12	М	Weighed	Abroad	(Blokel),IRE/G002/00	OAN, Onlied Kingdom		
											Auchans Road ,Houston		
										WRC Recycling	Johnstone Renfrewshire		
	To Other Countries	10 12 01	No	74.56	Miyad Danar	R12	М	Majahad	Abroad	,IRE/G068/08	,PA6 7EE ,United Kingdom		
	To Other Countries	19 12 01	No	74.56	Mixed Paper	K12	IVI	Weighed	Abroad	,IRE/G060/06	Veerplaat ,40 3313 LJ		
										Peute Papier Recycling ,DO			
	To Other Countries	10 12 01	No	E0.74	Newspaper	R12	М	Majahad	Abroad	02.2017 MDO	,Rotherdam,Netherlands		
	To Other Countries	19 12 01	NO	50.74	Newspaper	K12	IVI	Weighed	Abroad		11 Alvaston Business Park ,		
											Middlewich Road ,Nantwich		
											,Cheshire CW5 6PF ,United		
	To Other Countries	10 12 01	No	700.16	Newspaper	R12	М	Weighed	Abroad	Recycling UK Ltd (Broker),.	Kingdom		
	10 Other Countries	19 12 01	NO	700.10	Newspaper	K12	IVI	Weighed	Abibau	Cellmark (Broker), Irish TFS	Kiliguolii		
										Broker Licence - IRE/G181/11 and			
	To Other Countries	10 12 01	No	20E 20	Nowspaper	R12	М	Weighod	Abroad		Iroland		
	TO Other Countiles	13 12 01	140	303.20	Newspaper	1112	IVI	Weighed	Abidau	IKE/G100/12	.,.,.,Ireland		
											Auchans Road ,Houston		
										WRC Recycling	Johnstone Renfrewshire		
	To Other Countries	10 12 01	No	270.12	Newspaper	R12	М	Weighed	Abroad	.IRE/G068/08	,PA6 7EE ,United Kingdom		
	TO Other Countiles	13 12 01	140	318.12	Поторирог	1112	IVI	weighed	Abidau	Galway City Council -	, 17.0 7 EL , Office Kingdoff		
										Composting Site			
										(Carrowbrowne),EPA	Carrowbrowne ,Headford		
,	Within the Country	20.02.01	No	40.02	Garden & Parks - biodegradable waste	R3	М	Weighed	Offsite in Ireland	Licence Number 13-1	Road, Galway ,,, Ireland		
	within the Country	20 02 01	140	49.92	Galdell & Fairs - biodegradable Waste	NJ	IVI	weighed	Onsite in heland	LICENCE NUMBER 13-1		Global Material Recycling	
												(Electrical Waste	
												Management Site),Licence	
										(Electrical Waste		Number WFP-DS-090012-	
													648 Jordanstown Drive
										Number WFP-DS-090012-			,Greenogue ,Rathcoole ,Co.
,	Within the Country	20.01.35	Yes	82.5	Scrap Electronics - Mixed	R4	М	Weighed	Offsite in Ireland			Dublin ,Ireland	Dublin ,Ireland
	with the Country	20 01 33	162	03.5	Corap Liectrorinos - Ivilaeu	114	IVI	weighed	Onsite in Heland		Donegal Road, Pettigo, Co.	Dabili ,ileialia	Dubili ,ilelaliu
,	Within the Country	20.01.08	No	2625.66	Compostable Material - Food Waste	R3	М	Weighed	Offeite in Ireland	Envirogrind Ltd,WP4	Donegal,,,Ireland		
	within the Country	20 01 00	140	2020.00	Compostable Material - FUUU Waste	113	IVI	weighed	Onsite in ireland	Littliogillia Lta, WF4	Doneyai,.,ii ciai lu		

										1		
									Haz Waste : Name and			
									Licence/Permit No of Next			
			Quantity						Destination Facility Non		Name and License / Permit No. and Address of Final Recoverer /	Actual Address of Final Destination
			(Tonnes per						Haz Waste: Name and Licence/Permit No of	Destination Facility Non Haz Waste: Address of	Disposer (HAZARDOUS WASTE	i.e. Final Recovery / Disposal Site
			Year)				Method Used		Recover/Disposer	Recover/Disposer	ONLY)	(HAZARDOUS WASTE ONLY)
			,		Waste		Wildling Cood				2.12.7	(,
	European Waste				Treatment			Location of				
Transfer Destination	Code	Hazardous		Description of Waste		M/C/E	Method Used	Treatment				
Transfer Destination	Code	i iazaiuous		Description of Waste	Operation	IVI/ C/L	Metriod Osed	Heatment	Galway City Council -			
									Composting Site			
									(Carrowbrowne),EPA	Carrowbrowne ,Headford		
Within the Country	20.01.09	No	451.04	Compostable Material - Food Waste	R3	М	Weighed	Offsite in Ireland		Road, Galway Ireland		
Willing the Country	20 01 00	140	451.04	Compostable Material 1 ood Waste	11.5	IVI	Weighed	Offsite in ficialia	Electrice (turnber 16 1	Ballybeg,Littleton,.,Co.		
Within the Country	20 01 08	No	61.46	Compostable Material - Food Waste	R3	M	Weighed	Offeite in Ireland	Acorn Recycling,W0249-01	Tipperary, Ireland		
Willing the Country	20 01 00	INU	01.40	Compostable Material - Food Waste	N3	IVI	weighed	Offsite in fletariu	Acom Recycling, W0249-01	ripperary,ireianu	ENVA Ireland Ltd.,W0184-	
										Clonminam Industrial	01,Clonminam Industrial	Clonminam Industrial
									ENVA Ireland Ltd., W0184-	Estaate.PortlaoiseCo.	Estaate, Portlaoise,Co.	Estaate.PortlaoiseCo.
Within the Country	16.06.01	Voc	10.74	lead acid batteries	D4	N.4	Wajahad	Offsite in Ireland		Laois,Ireland	Laois, Ireland	Laois, Ireland
Within the Country	16 06 01	Yes	18.74	lead acid batteries	R4	М	Weighed	Offsite in Ireland	01	Laois,ireiario	Laois,ireiario	Laois,ireiario
										Auchans Road ,Houston		
									WRC Recycling	Johnstone Renfrewshire		
To Other Countries	10 12 04	No	102.7	Hard Plastic	R12	М	Maighad	Abroad	,IRE/G068/08	,PA6 7EE ,United Kingdom		
To Other Countries	19 12 04	No	103.7	Halu Flasili	RIZ	IVI	Weighed	Abroad	,INE/GU00/U0	Clermont Business Park		
									Leinster Environmental.WP	Haggardstown ,Dundalk		
Within the Country	10 12 04	No	42.04	Hard Plastic	D12	М	Wajahad	Offsite in Ireland	2008/06	,Co.Louth,Ireland		
Within the Country	19 12 04	INO	42.94	Tidiu Fiasiic	R12	IVI	Weighed	Offsite in freiand	2008/00	648 Jordanstown Drive		
									Global Material Recycling	Greenogue Rathcoole Co.		
									(Electrical Waste	Dublin ,Greenogue		
									Management Site),Licence	Rathcoole Co. Dublin		
									Number WFP-DS-090012-	,Rathcoole Co. Dublin ,Co.		
Within the Country	10 12 04	No	22.24	Hard Plastic	D12	М	Weighed	Offsite in Ireland		Dublin ,Ireland		
within the Country	19 12 04	INU	22.24	Tiald Flastic	R12	IVI	weighed	Offsite in fletariu	01	Dubilit ,irelatid		
										Auchans Road .Houston		
									WRC Recycling	,Johnstone Renfrewshire		
To Other Countries	10 12 02	No	16E 0	Steel Cans	R12	М	Weighed	Abroad	,IRE/G068/08	,PA6 7EE ,United Kingdom		
To Other Countiles	13 12 02	140	405.0	Steel Carls	ICIZ	IVI	vveigned	Abioau	,1112/0000/00	96 Toft Hill, Bishop		
										Auckland, County		
										Durham,DL14 0JA,United		
To Other Countries	19 12 02	No	53.62	Steel Cans	R12	М	Weighed	Abroad	GFSL Limited,IRE/G217/12	Kingdom		
To Outer Countiles	10 12 02	140	55.62	Older Salis	1112	.vi	** eigneu	Abroau	GI GE EIIIIIEG,INE/GZ17/12	Highlander House ,1 Teign		
										Grove ,East Kilbride		
									Highlander International	,Glasgow G75 8UZ ,United		
To Other Countries	19 12 01	No	52.12	Shredded Office Paper	R12	М	Weighed	Abroad	(Broker),SCO/044794/CB	Kingdom		
To Other Countries	13 12 01	140	52.12	Officeace Office Laper	1112	IVI	vveigneu	Abibau	(210101),000/044/34/08	Glen Abbey		
										Complex,Belgard		
									Textile Recycling Ltd,Permit	Road,Tallaght,Dublin		
Within the Country	20 01 11	No	5 24	Clothing/Textiles	R12	М	Weighed	Offsite in Ireland	Number WPR-014	24,Ireland		
ami the country	200111		0.24	Clothing, Coxillo			griou	Colic III II ciallu	Duffy Tyre Recycling	2.,		
									Ltd.Broker licence			
									IRE/G245/11. Site licence	Tonyhabboc,Newtowncunni		
Within the Country	16.01.03	No	190 78	end-of-life tyres	R12	M	Weighed	Offsite in Ireland	WFP-DL-010-0118-01	ngham,.,Co. Donegal,Ireland		
ami the country	.5 51 66		155.76	Cita Ci iii Ciyido			griou	Colic III II ciallu	22 010 0110 01	nga,.,oo. Donogai,iieland		
										Auchans Road ,Houston		
									WRC Recycling	Johnstone Renfrewshire		
To Other Countries	19 12 04	No	663.7	Mixed Coloured Plastic Bags (JAZZ Plastic)	R12	М	Weighed	Abroad	,IRE/G068/08	,PA6 7EE ,United Kingdom		
To Other Countiles	10 12 04	140	003.7	mines coloured r labile bags (or LZZ r labile)	1112	141	TTOIGHEU	/ widau	, (2, 3000/00	Clermont Business Park		
									Leinster Environmental,WP	,Haggardstown ,Dundalk		
Within the Country	19 12 04	No	99 32	Mixed Coloured Plastic Bags (JAZZ Plastic)	R12	М	Weighed	Offsite in Ireland		,Co.Louth,Ireland		
	.5 .2 04		55.52	mines coloured r labile bags (or LZZ r labile)			griou	Colic III II ciallu	2000,00	96 Toft Hill, Bishop		
										Auckland, County		
										Durham, DL14 0JA, United		
To Other Countries	19 12 04	No	25.04	Mixed Coloured Plastic Bags (JAZZ Plastic)	R12	M	Weighed	Abroad	GFSL Limited,IRE/G217/12			
10 Other Countiles	10 12 04	110	20.04	WINCE COIDUIGUT IASIIC Days (UNZZ FIASIIC)	1112	141	TTOIGHOU	/ IDI Udu	Or OL Lillined, INL/OZ17/12	rangaom		

									Haz Waste : Name and			
									Licence/Permit No of Next			
			Quantity						Destination Facility Non	Haz Waste : Address of Next	Name and License / Permit No. and	Assert Address of Final Business
			(Tonnes per						Haz Waste: Name and Licence/Permit No of	Destination Facility Non Haz Waste: Address of	Address of Final Recoverer / Disposer (HAZARDOUS WASTE	Actual Address of Final Destination i.e. Final Recovery / Disposal Site
			Year)				Method Used		Recover/Disposer	Recover/Disposer	ONLY)	(HAZARDOUS WASTE ONLY)
			,		Waste		Michied Cood				,	(,
	European Waste				Treatment			Location of				
Transfer Destination	Code	Hazardous		Description of Waste		M/C/E	Method Used	Treatment				
									1	Highlander House ,1 Teign		
										Grove ,East Kilbride		
									Highlander International	,Glasgow G75 8UZ ,United		
To Other Countries	19 12 01	No	131.88	Multigrade paper	R12	M	Weighed	Abroad	(Broker),SCO/044794/CB	Kingdom		
				5						Hageubar Road, Strines		
										Entrance, High		
									Disley Tissue Limited, Broker	Peak, Derbyshire, United		
To Other Countries	19 12 01	No	101.88	Multigrade paper	R12	M	Weighed	Abroad	licence IRE/G014/11	Kingdom		
				· · ·						47 Swaffham Rd ,Burwell		
									Boost Recycling	,Cambridgeshire ,CB25		
To Other Countries	19 12 01	No	24.9	Multigrade paper	R12	M	Weighed	Abroad	(Broker), IRE/G082/08	0AN,United Kingdom		
										Kings Court Beacon		
										Road, Poulton Industrial		
										Estate,Poulton le Fylde		
										Lancashire,FY6 8JE,United		
To Other Countries	17 04 11	No	30.93	Electrical Cable	R4	M	Weighed	Abroad	Ashvin Metals Ltd,.	Kingdom		
Within the Country	19 12 07	No	1456.66	Shredded Timber	R3	M	Weighed	Offsite in Ireland	Eirebloc Ltd,CK (S) 503/07	Lissarda,Co. Cork,.,.,Ireland		
									Connacht Residual Regional			
									Landfill ,EPA Licence	Landfill ,Kilconnell		
Within the Country	19 12 07	No	1174.48	Shredded Timber	D15	M	Weighed	Offsite in Ireland		,Co.Galway ,,,Ireland		
									Galway City Council -			
									Composting Site			
									(Carrowbrowne),EPA	Carrowbrowne ,Headford		
Within the Country	19 12 07	No	116.9	Shredded Timber	R3	М	Weighed	Offsite in Ireland	Licence Number 13-1	Road, Galway ,,, Ireland		
									5 111 1 10 11	0 1 11 1/ 1		
14/24 2 4 6 4	10.10.07		04.0	Observation de Timber	Do.			0" "	Barna Waste (Composting	Carrowbrowne, Headford		
Within the Country	19 12 07	No	21.2	Shredded Timber	R3	M	Weighed	Offsite in Ireland		Road, Galway,.,Ireland		
\A(:4b:- 4b - O4	40.40.07	NI-	400.0	Shredded Timber	R3	М	Marian and	Off-it- i- II	Local Farmers,Not Applicable	Various Iroland		
Within the Country	19 12 07	No	428.9	Silledded Tilliber	K3	IVI	Weighed	Offsite in Ireland	Applicable	Addresses,,,,,,Ireland		
									Connacht Residual Regional	Connacht Bosidual Bogional		
									Landfill .EPA Licence	Landfill ,Kilconnell		
Within the Country	10 12 12	No	1/508 08	General Waste - Landfill	D1	М	Weighed	Offsite in Ireland		,Co.Galway ,,,Ireland		
TTIMIT THE COUNTRY	10 12 12	110	14300.00	Conciai Waste - Landini	<i>-</i> 1	141	TTOIGHOU	Challe in heland		Ballina,,County		
Within the Country	19 12 12	No	6060.22	General Waste - Landfill	D1	M	Weighed	Offsite in Ireland	02	Mayo,Ireland		
the country	.0 .2 12		0000.22	Zanania Zanania			griou	Colic III II ciallu	Drehid Waste Management	, 2,		
Within the Country	19 12 12	No	421.78	General Waste - Landfill	D1	M	Weighed	Offsite in Ireland	Facility,W0201-01	Drehid,,Co. Kildare,Ireland		
y			.20							Knockharley Landfill,,Co.		
Within the Country	19 12 12	No	20.38	General Waste - Landfill	D1	M	Weighed	Offsite in Ireland		Meath,Ireland		
, , , , , , , , , , , , , , , , , , , ,							3		Central Waste Management			
									Facility,EPA Licence	Ballyduffbeg,Inagh ,County		
Within the Country	19 12 12	No	17.58	General Waste - Landfill	D1	M	Weighed	Offsite in Ireland	Number 109/2	Clare,.,Ireland		
									Ballynacarrick			
Within the Country	19 12 12	No	526.88	General Waste - Landfill	D1	M	Weighed	Offsite in Ireland	Landfill,W0024-1	.,.,Co. Donegal,.,Ireland		
									Indaver Ireland, EPA Licence	Carranstown ,Duleek,County		
Within the Country	19 12 12	No	2126.82	General waste - Recovery by Incineration	R1	M	Weighed	Offsite in Ireland		Meath,.,Ireland		
				General Waste - Recovery by baling /						Cree,Kilrush,Co.		
Within the Country	19 12 12	No	224.24	wrapping	R12	M	Weighed	Offsite in Ireland	No. 010/02/WP/CL	Clare,.,Ireland		
										Veerplaat ,40 3313 LJ		
									Peute Papier Recycling ,DO			
To Other Countries	19 12 01	No	1259.98	Cardboard - OCC	R12	M	Weighed	Abroad	02.2017 MDO	,Rotherdam,Netherlands		

_													
										Haz Waste : Name and			
										Licence/Permit No of Next			
				Quantity						Destination Facility Non	Haz Waste: Address of Next Destination Facility	Name and License / Permit No. and Address of Final Recoverer /	Actual Address of Final Destination
				(Tonnes per						Haz Waste: Name and Licence/Permit No of	Non Haz Waste: Address of	Disposer (HAZARDOUS WASTE	i.e. Final Recovery / Disposal Site
				Year)				Method Used		Recover/Disposer	Recover/Disposer	ONLY)	(HAZARDOUS WASTE ONLY)
				rear)		Waste		Wethou Oseu	_	recover/Disposer	recover/Disposer	ONE!)	(HAZARDOOD WAGTE GRET)
		European Waste				Treatment			Location of				
	Fransfer Destination	Code	Hazardous		Description of Waste		M/C/E	Method Used	Treatment				
Щ	Transfer Destination	Code	nazaidous		Description of waste	Operation	IVI/C/E	ivietrioù Oseu	rreatment	Recycling UK Ltd			
											11 Alvaston Business Park ,		
											Middlewich Road ,Nantwich		
					0 11 1 000					IRE/G069/08 TFS	,Cheshire CW5 6PF ,United		
	o Other Countries	19 12 01	No	1289.02	Cardboard - OCC	R12	M	Weighed	Abroad		Kingdom		
										Cellmark (Broker), Irish TFS			
										Broker Licence -			
										IRE/G181/11 and			
	o Other Countries	19 12 01	No	408.7	Cardboard - OCC	R12	M	Weighed	Abroad	IRE/G180/12	.,.,,,lreland		
											Highlander House ,1 Teign		
											Grove ,East Kilbride		
										Highlander International	,Glasgow G75 8UZ ,United		
-	o Other Countries	19 12 01	No	99.46	Cardboard - OCC	R12	M	Weighed	Abroad	(Broker),SCO/044794/CB	Kingdom		
											47 Swaffham Rd ,Burwell		
										Boost Recycling	,Cambridgeshire ,CB25		
	o Other Countries	19 12 01	No	126.04	Cardboard - OCC	R12	M	Weighed	Abroad	(Broker), IRE/G082/08	0AN,United Kingdom		
											Auchans Road ,Houston		
										WRC Recycling	Johnstone Renfrewshire		
	o Other Countries	19 12 01	No	51.62	Cardboard - OCC	R12	М	Weighed	Abroad	,IRE/G068/08	,PA6 7EE ,United Kingdom		
	o oution ocumento	.0 .2 0 .		01.02	odraboura 555	2		rroigiliou	7101000	Panda Waste (Broker),Irish	, , , to , LL , o mica rungaem		
										TFS Brokers licence number			
١	Vithin the Country	10 12 01	No	656.62	Cardboard - OCC	R12	М	Weighed	Offsite in Ireland	IRE/G040/12	.,.,.,lreland		
'	Vitilit the Country	19 12 01	NO	030.02	Caraboara - OCC	K12	IVI	Weighed	Offsite in fletariu		Kings Court Beacon		
											Road, Poulton Industrial		
											Estate, Poulton le Fylde		
	- 040	40.40.00	NI-	00.04	Old Ballad Alvaniairus	D40		AAA dada a ah	A la		Lancashire,FY6 8JE,United		
	o Other Countries	19 12 03	No	26.81	Old Rolled Aluminium	R12	M	Weighed	Abroad		Kingdom		
											Millenium Business		
					1 (1) (1)						Park,Grange,Ballycoolin,Du		
١	Vithin the Country	19 12 10	No	2787.04	combustible waste (refuse derived fuel)	R1	M	Weighed	Offsite in Ireland	W0183-01	blin,Ireland		
										Connacht Residual Regional			
											Landfill ,Kilconnell		
١	Vithin the Country	20 03 03	No	2873.06	street-cleaning residues	D1	M	Weighed	Offsite in Ireland	Number 178/1	,Co.Galway ,,,Ireland		
										Galway City Council -			
										Composting Site			
											Carrowbrowne ,Headford		
١	Vithin the Country	20 03 03	No	202.26	street-cleaning residues	R3	M	Weighed	Offsite in Ireland		Road, Galway ,,, Ireland		
										Galway City Council -			
										Composting Site			
											Carrowbrowne ,Headford		
١	Vithin the Country	19 12 09	No	771.22	Inert Soil	R3	M	Weighed	Offsite in Ireland	Licence Number 13-1	Road, Galway ,,, Ireland		
	•										Unit 4 Osberstown Industrial		
										Rehab Glassco Ltd, Waste	Park,Caragh		
											Road, Naas, County		
١	Vithin the Country	19 12 05	No	1235.46	glass bottles / jars	R12	M	Weighed	Offsite in Ireland		Kildare,Ireland		
										Connacht Residual Regional	Connacht Residual Regional		
					stabilised composted material - AT4 tested						Landfill ,Kilconnell		
١	Vithin the Country	19 03 05	No			R10	М	Weighed	Offsite in Ireland		,Co.Galway ,,,Ireland		
	uno ocuntry				stabilised wastes other than those				2sito iii iiolalla		Ballina,,County		
١	Vithin the Country	19.03.05	No			R10	М	Weighed	Offsite in Ireland		Mayo,Ireland		
	viumi trie Country	19 03 03	INO	210.7	11161101160 III 13 03 04	IVIU	IVI	vveigneu	Challe in heland	02	wayo,nelanu		

_													
										Haz Waste : Name and			
										Licence/Permit No of Next			
				Quantity						Destination Facility Non	Haz Waste : Address of Next	Name and License / Permit No. and	Astrol Address of Final Basilianian
				(Tonnes per						Haz Waste: Name and Licence/Permit No of	Destination Facility Non Haz Waste: Address of	Address of Final Recoverer / Disposer (HAZARDOUS WASTE	Actual Address of Final Destination i.e. Final Recovery / Disposal Site
				Year)				Method Used		Recover/Disposer	Recover/Disposer	ONLY)	(HAZARDOUS WASTE ONLY)
				rear)		Waste		Wethod Osed		recover/Disposer	recover/Disposer	ONE!)	(HAZARDOGG WAGTE GRET)
		European Waste				Treatment			Location of				
-	ransfer Destination	Code	Hazardous		Description of Waste	Operation	M/C/E	Method Used	Treatment				
	ransier Destination	Code	nazaidous		Description of waste	Operation	IVI/C/E	ivietrioù Osea	Healment	Recycling UK Ltd			
										(Broker),NSO/544843/B -	11 Alvaston Business Park .		
										Broker Number &	Middlewich Road .Nantwich		
_					V (1 /0 II II					IRE/G069/08 TFS	,Cheshire CW5 6PF ,United		
- 1	Other Countries	19 12 01	No	21.2	Kraft paper / Cardboard Bags	R12	M	Weighed	Abroad	Registration No	Kingdom		
											Tynagh,Loughrea,.,County		
W	ithin the Country	19 12 07	No	19.6	Timber Pallets	R12	M	Weighed	Offsite in Ireland	No. 593	Galway, Ireland		
											Carrowbrowne, Headford		
W	ithin the Country	17 01 07	No	4208.0	Rubble / Inet Material	R5	M	Weighed	Offsite in Ireland		Road,Galway,.,Ireland		
										Joe McLoughlin Waste	Ardlcolum, Drumshanbo,.,Co		
W	ithin the Country	17 08 02	No	76.3	Plasterboard	R12	M	Weighed	Offsite in Ireland	Disposal Ltd,W0216	unty Leitrim, Ireland		
											Cotton Way,Loughborough		
											,Leicestershire,LE11,United		
T	Other Countries	19 12 04	No	79.74	HDPE Plastic Bottles	R12	M	Weighed	Abroad	Jayplas,17/12/2018	Kingdom		
											Auchans Road ,Houston		
										WRC Recycling	,Johnstone Renfrewshire		
T	Other Countries	19 12 04	No	95.8	HDPE Plastic Bottles	R12	M	Weighed	Abroad	,IRE/G068/08	,PA6 7EE ,United Kingdom		
								**			Killycard Industrial		
											Estate, Bree, Castleblayney, C		
T	Other Countries	19 12 04	No	103.14	HDPE Plastic Bottles	R12	M	Weighed		08-0022-01	o.Monaghan,Ireland		
											Hardwick Road, Astmoor		
										JFC Manufacturing	Industrial		
										Company Ltd,EA WML	Estate,Runcorn,Cheshire,Un		
T	Other Countries	19 12 04	No	53 94	HDPE Plastic Bottles	R12	М	Weighed	Abroad	100011	ited Kingdom		
	Julior Countines	.0 .2 04		55.54				Troignou	, Jaa		Denmark House Brick		
											Close.Kiln Farm.Milton		
										Choice Waste Management	Keynes, Buckinghamshire		
т.	Other Countries	10 12 04	No	74.62	HDPE Plastic Bottles	R12	М	Weighed		LtdCB/WE5536VU	MK11 3DP, United Kingdom		
1	Journal Courtilles	13 12 04	140	74.02	TIDI L Flastic Dutties	1112	IVI	weigneu	Abidau	Ltd.,OB/WESSSOVO	Veerplaat ,40 3313 LJ		
										Peute Papier Recycling ,DO			
_	Othor Countries	10 12 04	No	22.22	HDDE Plantic Pottles	D10	N.4	Majahad	Abroad				
10	Other Countries	19 12 04	No	23.32	HDPE Plastic Bottles	R12	М	Weighed	Abroad	02.2017 MDO	,Rotherdam,Netherlands		
											Austral Band Haustra		
										MDC Bernelier	Auchans Road ,Houston		
_					0 0 0					WRC Recycling	,Johnstone Renfrewshire		
T	Other Countries	19 12 04	No	25.14	Clear Plastic Film	R12	M	Weighed	Abroad	,IRE/G068/08	,PA6 7EE ,United Kingdom		
											Split Hill Quarry, Hazelwood		
										Ltd,Permit Number WFP-	,Kilbeggan,County		
W	ithin the Country	19 12 05	No	81.28	Window / flat glass	R12	M	Weighed	Offsite in Ireland	WM-2009-0007-01	Westmeath, Ireland		

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

Link to previous years waste data
Link to previous years waste summary data & percentage change