



ANNUAL ENVIRONMENTAL REPORT

GREENSTAR LIMITED

SIX CROSS ROADS, WATERFORD

LICENCE NO. W0116-02

JANUARY 2011 – DECEMBER 2011

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30th March 2012

Project		Annual Environmental Report 2011		
Client		Greenstar Ltd. W0116-02		
Report No	Date	Status	Prepared By	Reviewed By
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1. INTRODUCTION

This is the 2011 Annual Environmental Report (AER) for Greenstar Ltd. (Greenstar) Materials Recovery Facility (MRF) at Six Cross Roads, Butlerstown, County Waterford. The report covers the period from the 1st January 2011 to the 31st December 2011. Wastes were not accepted the facility for processing or transfer in 2011. The only activities carried out were the storage of empty waste receptacles and the storage of a small amount of gypsum waste.

The content of the AER is based on Schedule F of the Waste Licence (W0116-02) and the report format follows guidelines set in the “*Guidance Note for Annual Environmental Report*” issued by the Environmental Protection Agency (Agency)¹. Cognisance was also taken of the AER Draft Guidance Document issued in January 2012².

¹ EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency

² EPA (Environmental Protection Agency) 2012 Draft AER Guidance Document

2. SITE DESCRIPTION

2.1 Site Location and Layout

The facility is located at Six Cross Roads, Carriganard, Butlerstown and is accessible from the Six Cross Roads, just south of the Waterford by-pass (R710). The surrounding area to the north, south and east of the facility is occupied by industrial and commercial premises. The facility is bordered to the west by a third class road and agricultural land.

2.2 Waste Management Activities

The licence allows Greenstar to accept and process 70,000 tonnes of waste per annum, comprising commercial/industrial non-hazardous waste, household waste, and construction and demolition wastes. For commercial reasons, the facility did not accept any waste for processing in 2011. The only activities carried out were the storage of waste receptacles (skips, roll-on-roll-off trailers etc). A small amount of gypsum waste produced by a customer in Waterford (Honeywell) was temporarily stored inside the transfer station building between January and July 2011. This temporary storage was agreed with the Agency.

2.2.1 Waste Types & Processes

The facility is licensed to accept a maximum of the following waste types and quantities, as specified in Schedule A of the licence: -

Household and Commercial (30,000 tonnes)

Construction & Demolition (20,000 tonnes)

Industrial Non-Hazardous Solid (20,000 tonnes).

No hazardous wastes or liquid wastes are accepted.

The maximum tonnage of each waste type accepted, may be altered with the prior agreement of the Agency as long as the total maximum tonnage is not exceeded.

The facility was also authorised to operate a civic amenity area located adjacent to the materials recovery building. The civic amenity area was not operated during 2011.

2.2.1 Plant List

A front loading was used to remove the gypsum waste. The only plant item onsite at the end of 2011 was the weighbridge.

Table 2.1 Plant Used 2011

No.	Plant	Model	Operational Capacity
1	Loading Shovel	Volvo L90 F	50 hr/wk
1	Weighbridge	Precia Molen I-200	50 hr/wk

3. EMISSION MONITORING

Greenstar implements the comprehensive environmental monitoring programme specified in Schedule C of the licence to assess the significance of emissions from site activities. The programme includes surface water, noise and dust monitoring. The monitoring locations are shown on Figure 3.1.

The monitoring results are submitted to the Agency at quarterly intervals and an overview of the results is presented in this Section.

3.1 Surface Water Monitoring

Surface water monitoring was carried out quarterly at three locations (SW-1, SW-2 and SW-3) in 2011. Rainwater run-off from the site discharges to a culverted stream on the eastern side of the access road (cul de sac). The receiving stream runs from the New Ring Road to the Six Cross Roads and is culverted from the start of the industrial estate to the Six Cross Roads.

The monitoring locations include the surface water discharge point and up and downstream of the discharge, as shown on Figure 3.1. SW-1 is to the north and upstream of the facility. SW-2 is at the discharge point and SW-3 is to the south and downstream, where the stream is not culverted. This is the closest accessible downstream location.

Samples were collected in Q1-Q3 2011. In Q4, attempts were made to collect surface water samples on the 23rd November 2011, however as there had not been any rainfall prior to the site visit, there was no discharge and therefore samples could not be collected. November and December were unusually dry and it was not possible to collect samples on other dates in Q4.

The range of analysis included quarterly monitoring of pH, electrical conductivity, Chemical Oxygen Demand (COD), total ammonia, suspended solids and mineral oil. There are no Emission Limit Values (ELV) or Trigger Levels set in the licence. Greenstar developed proposed trigger levels for the discharge which have been used for comparison purposes since Q1 2009. The results are included on Tables 3.1 to 3.3.

In general the water quality at SW-1, upstream of the facility, is not good and is impacted by activities in the surrounding area including commercial/industrial activities and farming. The quality at SW-3 is similar to that of SW-1 and does not appear to be affected by site activities.

The proposed trigger levels were not exceeded at SW-2 in 2011. The results indicate that the discharge from the facility is not affecting the surface water quality downstream of the facility.

Table 3.1 Surface water Monitoring Results 2011: SW-1

	Units	Q1	Q2	Q3
pH	pH units	7.7	8.18	7.7
Temperature	°C	9.8	12.9	15.4
Conductivity	mS/cm	0.243	0.422	0.131
COD	mg/l	10	<7	13
Total Ammonia	mg/l	0.28	1.35	0.46
Suspended Solids	mg/l	25	<10	43
Mineral Oils	mg/l	<0.01	<0.01	<0.01

Table 3.2 Surface water Monitoring Results 2011: SW-2

	Units	Q1	Q2	Q3	Proposed Trigger Level
pH	pH units	7.92	7.95	7.66	5.5 – 9.0
Temperature	°C	9.7	13.3	16.0	-
Conductivity	mS/cm	0.595	0.78	0.397	1.000
COD	mg/l	8	11	12	40
Total Ammonia	mg/l	0.44	1.02	1.86	3.78
Suspended Solids	mg/l	18	39	<10	100
Mineral Oils	mg/l	<0.01	<0.01	<0.01	1.0

Table 3.3 Surface water Monitoring Results 2011: SW-3

SW-3	Units	Q1	Q2	Q3
pH	pH units	8.2	8.24	7.65
Temperature	°C	9.9	13.0	15.0
Conductivity	mS/cm	0.3	0.416	0.188
COD	mg/l	9	<7	15
Total Ammonia	mg/l	0.3	1.51	0.65
Suspended Solids	mg/l	<10	<10	26
Mineral Oils	mg/l	<0.01	<0.01	<0.01

3.2 Noise Survey

Greenstar carried out the bi-annual noise surveys at the facility in accordance with Schedule C of the licence in July and December 2011. Monitoring was carried out at three onsite monitoring locations (N1, N2 and N3) and two offsite monitoring locations (N4 and N5). The results are included on Table 3.4 and 3.5.

In July, noise levels recorded at the offsite stations N4 and N5 were 49 and 63 dB respectively. Noise emissions from the Greenstar facility were not audible at these stations, with levels dominated by public road traffic. In December, the $L_{Aeq\ 30\ min}$ levels recorded at the offsite stations N4 and N5 were 54 and 67 dB respectively. Noise emissions from the Greenstar facility were not audible at these stations, and levels were dominated by public road traffic.

Schedule B.4 of licence specifies that noise emissions from the facility should not exceed 55 dB during daytime hours at any offsite sensitive locations. The noise surveys confirmed that the facility was fully in compliance with its licence requirements.

Table 3.4 Noise Monitoring Results: July 2011

Station	Time	L _{Aeq 30} min dB	L _{AF10 30} min dB	L _{AF90 30} min dB	Specific level* dB	Noise audible
N1	0954- 1024	50	46	37	0	No facility emissions. Distant traffic continuously audible. Sporadic traffic on access road outside site. Bird song/calls & aircraft. Mobile plant occasionally audible at adjacent premises. Low altitude aircraft intrusive at 1002.
N2	0922- 0952	47	51	37	0	No facility emissions. Distant traffic continuously audible. Sporadic traffic on access road outside site. Bird song/calls & aircraft. Hum at adjacent building offsite continuously audible at low level. Sporadic plant and operations noise also audible at adjacent premises, until 0945 when forklift truck at premises became dominant and continuous.
N3	1027- 1057	49	48	39	0	No facility emissions. Distant traffic continuously audible. Sporadic traffic on access road outside site. Bird song/calls & aircraft. Mobile plant occasionally audible at adjacent premises, dominant at times.
N4	0835- 0905	49	52	38	0	No facility emissions. Noise environment dominated by road traffic: local traffic through junction (intrusive when present) and continuously present distant traffic noise (audible during local traffic lulls). Bird song/calls & aircraft.
N5	0800- 0830	63	64	42	0	No facility emissions. Noise environment dominated by road traffic: passing traffic, (intrusive when present) and continuously present distant traffic noise (audible during local traffic lulls). Bird song/calls & aircraft.

*Specific level: Sound pressure level contribution considered attributable to facility, determined using real time assessment, field notes, time history profiles, statistical analysis, frequency spectra, near field correction if applicable, and other parameters.

Table 3.5 Noise Monitoring Results: December 2011

Station	Time	L _{Aeq 30} min dB	L _{AF10 30} min dB	L _{AF90 30} min dB	Specific level* dB	Noise audible
N1	1005-1035	54	51	43	0	No facility emissions. Frequent emissions from plant at nearby offsite premises dominant when present. Road traffic to N, NE and NW continuously significant in background. Sporadic vehicle movements on access road outside entrance. Bird song/calls and aircraft.
N2	0931-1001	51	55	43	0	No facility emissions. Continuous noise emissions from loading operation at adjacent offsite premises dominant until 0949. Thereafter, road traffic to N, NE and NW continuously audible. Some limited activity at adjacent premises after 0949, often intrusive. Bird song/calls and aircraft.
N3	1038-1108	46	47	41	0	No facility emissions. Frequent emissions from plant at nearby offsite premises dominant when present, almost continuously present from 1045. Road traffic to N, NE and NW continuously significant in background. Sporadic vehicle movements on access road outside entrance. Dog barking audible to S. Bird song/calls and aircraft.
N4	0842-0912	54	58	47	0	No facility emissions. Intermittent traffic through local road junction dominant when present. Distant traffic audible in various directions continuously in background. Bird song/calls, particularly local crows. Aircraft.
N5	0807-0837	67	71	44	0	No facility emissions. Intermittent local traffic dominant when present. Otherwise, distant traffic to N continuously audible and dominant. Bird song/calls. Aircraft.

*Specific level: Sound pressure level contribution considered attributable to facility, determined using real time assessment, field notes, time history profiles, statistical analysis, frequency spectra, near field correction if applicable, and other parameters.

3.3 Dust Monitoring

Greenstar conducted dust monitoring on two occasions (May and June) at four on-site locations (D1, D2, D3 and D4). The licence only requires monitoring at three on-site locations, however following discussions with the Agency in 2009 an additional monitoring point (D4) was established. This is in the centre of the yard and is considered to be representative of the dust generated solely at the facility. The results are included in Table 3.6. The dust deposition limit (350 mg/m²/day) was not exceeded at any monitoring location.

Table 3.6 Dust Monitoring Results 2011

	May	June	Deposition Limit mg/m ² /day
D1	107.5	104.3	350
D2	97.0	98.0	350
D3	154.7	173.2	350
D4	314.3	199.2	350



Monitoring Locations

SW-1	258297	109231
SW-2	258322	109102
SW-3	258352	108887
D1	258338	109073
D2	258319	109131
D3	258356	109126
N1	258321	109106
N2	258359	109126
N3	258339	109081
N4	258334	108877
N5	258422	108990



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CLIENT

Greenstar

TITLE

Monitoring Locations
Waterford

LEGEND

- Commercial/Industrial unit
- Private Dwelling
- Agricultural Land
- Surface Water Monitoring Point
- Dust Monitoring Point
- Noise Monitoring Point

FIGURE NUMBER

3.1

Scale

Not To Scale

Revision

A

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4. SITE DEVELOPMENT WORKS

4.1 Specified Engineering Works

There were no engineering works carried out in 2011 and none are planned for 2012.

4.2 Summary of Resource & Energy Consumption

The facility was not used for waste processing or administration purposes during 2011 and therefore no material resource or energy consumption.

4.3 Bund Integrity Test

Bund integrity tests were carried out in April 2008 and the bunds were deemed fit for purpose. No oils or diesels were stored at the facility in 2011.

5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY

No waste was accepted for processing in 2011. Table 5.1 shows the quantities accepted in 2010 and Table 5.2 shows the quantities of waste received and consigned in previous years. The tables included a breakdown of the waste types in accordance with the European Waste Catalogue and Hazardous Waste (EWC/HWL) list.

Table 5.1 Waste Received & Consigned 2010

EWC	Description	Waste In	Waste Out
15 01 01	Cardboard Packaging	694.00	656.00
15 01 02	Plastic Packaging	10.00	
15 01 03	Wooden Packaging	2.00	161.18
15 01 04	Metallic Packaging		4.16
15 01 06	Mixed Packaging	2,075.00	1,510.32
17 01 07	Mixture of concrete, bricks, tiles, ceramics from C&D Waste	1,351.00	1,746.71
17 02 01	Wood from C&D Waste	76.00	
17 05 04	Soil & Stones from C&D Waste	234.00	
17 08 02	Plasterboard	5.00	
19 12 07	Processed Wood	94.00	
19 12 12	Mixed Residual Waste from mechanical treatment	5,764.00	9,601.30
20 01 01	Cardboard & Paper	29.00	40.00
20 01 02	Glass	0.04	
20 01 38	Wood	33.00	107.38
20 01 40	Metal	78.00	42.00
20 03 01	Mixed Residual Waste	382.00	
20 03 07	Bulky Waste	2,664.00	
	Total Received	14,151.00	
	Total Consigned		13,869.05
	Total Recovered		13,869.05
	Total Disposed		0
	Recovery Rate		100%

Table 5.3 – Waste Received and Consigned since 2006

	2010	2009	2008	2007	2006
Total Received	14,151	22,366.17	28,595.73	31,010	34,643
Total Consigned	13,869.05	22,650.92	28,714.10	34,854	34,978
Recovery Rate	100%	95.5%	96.8%	79%	62.66%

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There were no reportable incidents in 2011.

6.2 Register of Complaints

Greenstar maintains a register of complaints received in accordance with Condition 3.13 of the waste licence. No complaints were received in 2011.

7. ENVIRONMENTAL DEVELOPMENT

7.1 Environmental Management Programme Report

Greenstar have implemented an Integrated Management System (IMS) in accordance with the requirements of Occupational Health and Safety Assessment Series (OHSAS) 18001:2007 and International Standard Organisation (ISO) 14001:2004 in order to manage the Health, Safety and Environmental performance of their business and to control health and safety risk and to minimise their environmental aspects and impacts. Although the facility is not engaged in significant activities the IMS remains in place at the site.

The IMS has been developed for the achievement of continual improvement taking into account the requirements of the Waste Licence Conditions and the current activities at the facility. Greenstar has prepared and effectively implement documented procedures and instructions in accordance with the requirements of both the OHSAS 18001:2007 and ISO 14001:2004 for any operations which may take place at the facility. The procedures index is included in Appendix 1.

The schedule of Objectives and Targets, including their status for 2011 (Table 7.1) are presented below.

7.1.1 Schedule of Objectives 2011

The objectives that were achieved during this reporting period are outlined in Table 7.1. Details on the progress made are also included on the table and an evaluation of what has been achieved to date is presented below.

Objective 1 – Review and Assess the Effectiveness of Nuisance Control Procedures
The facility did not cause a nuisance. The nuisance control procedures are effective and routinely audited both internally and externally.

Objective 2 – Pollution Prevention
The routine environmental monitoring has confirmed that the facility is not causing pollution in the local environment.

Table 7.1 Schedule of Objective and Targets 2011

No	Objective	Target	Responsibility	Status
1	Review and Assess the Effectiveness of Nuisance Control Procedures	Continually review and assess all nuisance control procedures to ensure minimal impact on the surrounding area.	Site Management	Complete Q4 2011
2	Pollution Prevention	Strive to ensure that monitoring results comply with the licence limits and investigate any exceedances of emission limit values.	Site Management	Complete Q4 2011

7.1.2 Management Structure

The management and staffing structure during the reporting period was as set out below -

Name: Aidan Shanahan

Responsibility: Regional General Manager

Experience: 9 years experience waste management experience; has completed the FÁS waste management course.

Name: Tom Walsh

Responsibility: Operations Manager

Experience: 10 years experience waste management experience; has completed the FÁS waste management course.

Name: Ivan Cummins

Responsibility: Facility Supervisor

Experience: 28 years experience waste management experience

7.1.3 Staff Training

No training was required in 2011.

7.2 Communications Programme

All correspondence received and sent to the Agency (except commercially sensitive information) is available to the public to view at the facility. Records available for public inspection on site include:-

Environmental Policy,

Waste Licence,

Licence Application and Review documentation,

Monitoring Records,

Complaints File,

EPA Correspondence File.

Opening Times for Inspection of Records are from 10 am – 4 pm. Visits to the site should be arranged in advance by ringing the Facility Manager or Supervisor at 1890 600 900.

7.3 Report Financial Provision

Greenstar Ltd. has insurance cover for environmental liabilities of €10,000,000 for any one occurrence, which will apply to “sudden identifiable and unintended incidents” that might occur.

7.4 Nuisance Control

When the site was operational, Greenstar carried out routine site inspections and litter collections including onsite, the roadway and boundary fence locations. Greenstar continues to contract a vermin control company Prevent a Pest Ltd to carry out nuisance control at the facility.

7.5 European Pollutant Release and Transfer Register

Under the European Pollutant Release and Transfer Register Regulation (EC) No. 166/2006 Greenstar are required to submit information annually to the Agency. A copy of the information submitted to the Agency via the web-based data reporting system is included in Appendix 2.

7.6 Foul water Volume Transported Off-Site

No wastewater was removed from the facility in 2011.

8. OTHER REPORTS

No other reports were requested by the Agency during the reporting period.

APPENDIX 1

Procedures List



Doc. No.: Control	Revision No.: As Shown	Issue Date: As Shown
Approved By:	Malcolm Dowling – <i>Group Environmental Manager</i> Oliver Callan – <i>Group H&S Manager</i>	Page 1 of 4

Integrated Procedures - IP

IP-01	Document & Record Control Procedure	Rev 01, 05/07/10
IP-02	Health & Safety Risk Assessment Procedure	Rev 01, 05/07/10
IP-03	Environmental Aspects & Impacts Procedure	Rev 01, 05/07/10
IP-04	Legal & Regulatory Requirements Procedure	Rev 02, 05/11/10
IP-05	Objectives, Targets & Management Programmes Procedure	Rev 01, 05/07/10
IP-06	Competence, Training & Awareness Procedure	Rev 01, 05/07/10
IP-07	Communication & Consultation Procedure	Rev 01, 05/07/10
IP-08	Monitoring, Measurement & Improvement Procedure	Rev 01, 05/07/10
IP-09	Evaluation of Compliance Procedure	Rev 02, 15/09/11
IP-10	Non Conformances, Corrective/Preventive Actions Procedure	Rev 03, 01/02/11
IP-11	Internal Audit Procedure	Rev 02, 07/06/11
IP-12	Management Review Procedure	Rev 01, 05/07/10
IP-13	Control of Contractors/Visitors Procedure	Rev 02, 29/10/10
IP-14	Health & Safety & Environmental Monitoring	Rev 02, 29/10/10
IP-15	Emergency Preparedness & Response Procedure	Rev 02, 01/02/11

Safety Procedures - SP

SP-01	Permit to Work Procedure	Rev 01, 05/07/10
SP-02	Maintenance & Calibration Procedure	Rev 03, 04/04/11
SP-03	Mobile Plant Procedure	Rev 01, 05/07/10
SP-04	Fork Truck Procedure	Rev 01, 05/07/10
SP-05	Operation of Fixed Plant Procedure	Rev 01, 05/07/10
SP-06	Lock Out / Tag Out Procedure	Rev 01, 05/07/10
SP-07	Health & Safety Notification Procedure	Rev 01, 05/07/10
SP-08	Motor Claim Notification Procedure	Rev 01, 01/02/11
SP-09	MSW Shredder routine Maintenance & Clearing of Blockages Procedure (SCGT)	Rev 01, 01/12/11
SP-10	Weighbridge & Tipping Procedure (SCGT)	Rev 01, 01/12/11



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Approved By:	Malcolm Dowling – <i>Group Environmental Manager</i> Oliver Callan – <i>Group H&S Manager</i>	Page 2 of 4

Environmental Procedures - EP		
EP-01	Office Waste & Energy Management Procedure	Rev 01, 05/07/10
EP-02	Decommissioning and Aftercare Procedure	Rev 02, 14/09/11
EP-03	Environment Communications Procedure	Rev 02, 13/09/10
EP-04	Waste Permits & Licences Procedure	Rev 01, 05/07/10
EP-05	Waste Acceptance Procedure	Rev 01, 05/07/10
EP-06	Unacceptable Waste Procedure	Rev 01, 05/07/10
EP-07	Waste & Material Storage Procedure	Rev 01, 05/07/10
EP-08	Waste Processing Procedure	Rev 01, 05/07/10
EP-09	Site Infrastructure Procedure	Rev 01, 05/07/10
EP-10	Nuisance Management Procedure (Site Specific)	(Site Specific)
EP-11	Civic Amenity Site Procedure	Rev 01, 05/07/10



Doc. No.: Control	Revision No.: As Shown	Issue Date: As Shown
Approved By:	Malcolm Dowling – Group Environmental Manager Oliver Callan – Group H&S Manager	Page 3 of 4

Amendment History

Date	Amendment No.	Procedure No:	Revision No:	Comment	Authorised By
05.07.10	01	All	01	Initial Issue	M.D & O.C
13.09.10	02	EP-03	02	Issue of Incident Reports	M.D
20.09.10	03	IP-10	02	Env issues not logged on WIMS Database	M.D
29.10.10	04	IP-13	02	Use of M&M equipment by contractors	M.D & O.C
29.10.10	05	IP-14	02	Use of M&M equipment by contractors	M.D & O.C
29.10.10	06	SP-02	02	Inclusion of Maintenance Schedule	M.D & O.C
05.11.10	07	IP-04	02	Inclusion of other requirements	S.B & O.C
01.02.11	08	SP-08	01	Inclusion of new procedure	O.C
01.02.11	09	IP-10	03	Inclusion of SP-08	O.C
01.02.11	10	IP-15	02	Removal of SF-022	O.C
01.02.11	11	Contents	As shown	EP-10 Site Specific	M.D & O.C
01.02.11	12	Circ List	02	Amendment to document control	M.D & O.C
04.04.11	13	SP-02	03	Inclusion of Site Specific Maintenance schedules	O.C
07.06.11	14	IP-11	02	Inclusion of H&S & Env Internal Audit Schedules	M.D & O.C
14/09/11	15	EP-02	02	Inclusion of decommissioning of plant/equipment	S.B
15/09/11	16	IP-09	02	Inclusion of Statutory Inspections	O.C
01/12/11	17	SP-09	01	Inclusion of new procedure for SCGT	O.C
01/12/11	18	SP-10	01	Inclusion of new procedure for SCGT	O.C

APPENDIX 2

European Pollutant Release and Transfer Register



[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.13

REFERENCE YEAR	2011
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1. FACILITY IDENTIFICATION

Parent Company Name	Greenstar Limited
Facility Name	Greenstar Limited
PRTR Identification Number	W0116
Licence Number	W0116-02

Waste or IPPC Classes of Activity

No.	class_name
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
3.11	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.12	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
4.13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Six Cross Roads
Address 2	Carriganard
Address 3	Butlerstown
Address 4	Co Waterford
	Waterford
Country	Ireland
Coordinates of Location	-8.04571 52.891
River Basin District	IESE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Suzanne Byrne
AER Returns Contact Email Address	suzanne.byrne@greenstar.ie
AER Returns Contact Position	Environmental Executive
AER Returns Contact Telephone Number	01-2947949
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	01-2947900
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	No waste activities at this site in 2011
Web Address	

2. PRTR CLASS ACTIVITIES

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

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

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

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR#: W0116 | Facility Name : Greenstar Limited | Filename : w0116_2011.xls | Return Year : 2011 |

30/03/2012 13:06

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

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

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

Additional Data Requested from Landfill operators

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

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

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR# : W0116 | Facility Name : Greenstar Limited | Filename : w0116_2011.xls | Return Year : 2011 |

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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

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

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

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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : W0116 | Facility Name : Greenstar Limited | Filename : w0116_2011.xls | Return Year : 20

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SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
					0.0	0.0	0.0	0.0

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

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

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
					0.0	0.0	0.0	0.0

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

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR# : W0116 | Facility Name : Greenstar Limited | Filename : w0116_2011.xls | Return Year : 2011 |

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SECTION A : PRTR POLLUTANTS

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

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

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

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

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

[PRTM - W0116] Facility Name: Glenstar Limited | Filename: w0116_2011.xls | Return Year: 2011

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Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste - Name and Licence/Point No. of Next Destination Facility Non Haz Waste - Name and Licence/Point No. of Recover/Disposer	Haz Waste - Address of Next Destination Facility Non Haz Waste - Address of Recover/Disposer	Name and Licence / 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)
						MCE	Method Used					

* 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](#)