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ANNUAL ENVIRONMENTAL REPORT GREENSTAR LIMITED MATERIALS RECOVERY FACILITY MILLENNIUM BUSINESS PARK LICENCE NO. W0183-01 JANUARY 2011 – DECEMBER 2011

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Project	Annual Environmental Report 2011							
Client	Greenstar Ltd. W0183-01							
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1. INTRODUCTION

This is the 2011 Annual Environmental Report (AER) for the Greenstar Ltd. (Greenstar), Materials Recovery Facility (MRF) at Millennium Business Park, Grange, Ballycoolin, Dublin 11. The Waste Licence (Register No.W0183-01) for the facility was issued on 15th April 2005 and the facility began accepting waste in mid July 2006.

This AER covers the period from January 2011 to December 2011. The content is based on Schedule G of the Waste Licence 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 Cognisance was also taken of the AER Draft Guidance Document issued in January 2012².

¹ EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency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 1 of 21

2. SITE DESCRIPTION

2.1 Site Location and Layout

The facility occupies 4.45 hectares (ha) in the east of the Millennium Business Park, Ballycoolin, Dublin 11. It is intended to develop the facility in a number of Phases. Phases 1 and 2 opened in July 2006 and involved the construction of the Materials Recovery Facility (MRF) building and supporting ancillaries. The licence allows for the construction of a biowaste treatment building but this has not yet been constructed.

2.2 Waste Management Activities

The facility is currently licensed to accept and process 220,000 tonnes of waste per annum, comprising commercial/industrial non-hazardous waste, municipal waste and construction and demolition wastes. All waste processing takes place inside the waste transfer building, as specified in Condition 4.1 of the Licence

2.2.1 Waste Types & Processes

The facility is licensed to accept the following waste types and quantities, as specified in Schedule A of the Licence

- Municipal Waste (100,000 tonnes),
- Commercial & Industrial (90,000 tonnes),
- Construction & Demolition (30,000 tonnes).

No hazardous wastes or liquid waste are accepted at the facility.

Key processes carried out include: -

- Baling and Compaction of Commercial & Industrial (C&I) waste,
- Separation of C&I waste into different waste streams (paper, cardboard, glass, metal, organic),
- Screening of C&D waste into different waste streams (metals, concrete, bricks, tiles, plaster board, timber etc).

C&I Waste

C&I waste is off loaded in dedicated bays inside the MRF building. Pre-segregated wastes are off loaded in separate bays from the mixed waste. On the tipping floor the waste is inspected for unsuitable materials, which are immediately removed to the waste quarantine area.

The pre-segregated material is then moved to storage bays from where it is loaded onto trailers for removal off-site. The mixed waste is initially sorted using a mechanical grab to remove large items such as timber and metal. Such items are removed to the appropriate storage/handling areas inside the building. The remaining waste is separated using the automated processing equipment (which includes some manual picking) into the different waste streams (paper, cardboard, plastic, wood, metal, fines and stone). The recovered materials are sent to authorised facilities for further recycling and the residual waste to landfill.

Construction & Demolition Waste

C&D waste is off loaded inside the MRF building. Pre-segregated wastes are off loaded in separate bays from the mixed waste. On the tipping floor the waste is inspected for unsuitable materials, which are immediately removed to the waste quarantine area.

The pre-segregated material is then moved to storage bays from where it is loaded onto trailers for removal off-site. The mixed waste is initially sorted using a mechanical grab to remove large items such as timber and metal. Such items are removed to the appropriate storage/handling areas inside the building. The remaining waste is separated using the automated processing equipment (which includes some manual picking) into the different waste streams (paper, cardboard, plastic, wood, metal, fines and stone).

2.2.2 Plant List

A list of the plant in use at the facility is given in Table 2.1. The plant provides 100% duty and 50% standby for waste processing.

Table 2.1 On-Site Machinery

No.	Plant	Model	Operational Capacity tpd	Standby Capacity tpd
1	Synmet C&D process line	Synmet	1200	750
1	Synmet C&I process line	Synmet	1200	750
1	SRF process line	MCDI	240	0
1	C&I Loading grab	Fuchs MHL 340	2160	1710
1	C&I Loading grab	Fuchs MHL 335	2160	1710
1	C&D Loading shovel	Volvo L120E	8640	7440
1	Output area Loading shovel	Volvo L150F	3024	2124
1	Output area Loading grab	Liebherr 924	972	672
1	Compactor bin RORO shunter		216	88

3. EMISSION MONITORING

The monitoring required for Phases 1 and 2 includes surface water, wastewater, dust and noise monitoring. The monitoring locations are shown on Figure 3.1. As per the Licence, monitoring results are included in reports submitted to the Agency at quarterly intervals. An overview of the results of the monitoring is presented in this Section.

3.1 Surface Water Monitoring

Surface water monitoring is carried out quarterly at two monitoring points (SW-1 and SW-2) as shown on Figure 3.1. The surface water drainage system serves the paved area of the site and roofed areas. As only Phase 1 & 2 of the facility has been constructed, approximately 50% of the site is currently paved.

During the monitoring period there was only flow in SW-1 and SW-2 on one occasion, in Q4 2011. At all other times the monitoring locations were dry. The sampling and analysis was carried out in accordance with recognised quality assurance and control procedures.

The trigger levels set for total suspended solids were exceeded in SW-2 in Q-4. The Agency was informed of this incident. All other trigger levels were not exceeded and the discharge was in compliance with the licence conditions. The results are included on Tables 3.1 and 3.2.

Table 3.1 Surface Water Monitoring Results SW-1

Parameter	Units	Q1 '11	Q2 '11	Q3'11	Q4 '11	Trigger Levels
рН	pH Units	Dry	Dry	Dry	8	N/A
Conductivity	mS/cm	Dry	Dry	Dry	0.436	N/A
Temperature	°C	Dry	Dry	Dry	11	N/A
Ammoniacal Nitrogen	mg/l	Dry	Dry	Dry	2.13	N/A
BOD	mg/l	Dry	Dry	Dry	3	25
COD	mg/l	Dry	Dry	Dry	13	N/A
Total Suspended Solids	mg/l	Dry	Dry	Dry	NDP	35
Oils, Fats & Greases	mg/l	Dry	Dry	Dry	< 0.01	N/A
Mineral Oils	mg/l	Dry	Dry	Dry	< 0.01	5

NDP – No detection possible

 Table 3.2
 Surface Water Monitoring Results SW-2

						Trigger
Parameter	Units	Q1 '11	Q2 '11	Q3 '11	Q4 '11	Levels
рН	pH Units	Dry	Dry	Dry	8.31	N/A
Conductivity	mS/cm	Dry	Dry	Dry	0.569	N/A
Temperature	°C	Dry	Dry	Dry	10.8	N/A
Ammoniacal Nitrogen	mg/l	Dry	Dry	Dry	1.85	N/A
BOD	mg/l	Dry	Dry	Dry	8	25
COD	mg/l	Dry	Dry	Dry	45	N/A
Total Suspended Solids	mg/l	Dry	Dry	Dry	488	35
Oils, Fats & Greases	mg/l	Dry	Dry	Dry	< 0.01	N/A
Mineral Oils	mg/l	Dry	Dry	Dry	< 0.01	5

3.2 Wastewater Monitoring

Schedule D of the Licence requires the sampling of the wastewater discharge (recovered wastes storage bay floor wash downs and vehicle wash) to the municipal sewer. The wastewater sampling is carried out bi-monthly at location SE-1, as shown on Figure 3.1.

In the reporting period floor wash downs were not considered necessary. Vehicles are washed at the external truck wash facility on an intermittent basis as necessary. The wash water is directed to a silt trap and then to a petrol/oil interceptor before discharging to the municipal sewer.

OCM collected six waste water samples in 2011. The Emission Limit Values were not exceeded during the reporting period and the discharge was in compliance with the licence conditions. The results are shown on Table 3.3.

 Table 3.3
 Wastewater Monitoring Results SE-1

Parameter	Units	Feb	Apr	Jun	Aug	Oct	Dec'	Emission
		'11	'11	'11	'11	'11	11	Limit
рН	pH Units	7.26	8.12	7.72	7.72	8.12	8.32	6 – 10
Temperature	°C	12.0	13.1	13.3	13.2	14.8	10.2	42
Ammoniacal Nitrogen	mg/l	2.47	2.52	41.42	4.55	10.97	1.89	100
BOD	mg/l	44	318	262	177	223	5	6,000
COD	mg/l	229	782	561	365	559	44	12,000
Total Suspended Solids	mg/l	152	229	757	65	26	184	2,500
Oils, Fats & Greases	mg/l	<1	0.23	<0.01	<0.01	2.78	<0.01	100
Orthophosphate	mg/l	<1	2.305	24.26	0.89	3.57	< 0.06	100
Surfactants	mg/l	< 0.21	2.3	0.4	0.9	0.6	< 0.2	100
Sulphate	mg/l	104.5	201.29	13.01	95.03	97.87	217.3 7	1,000

3.3 Noise Monitoring

The annual noise survey was carried out in June 2011. The full monitoring report was submitted to the Agency on the 22nd August 2011. The monitoring locations included those specified in the Licence (N-1, N-2 and N-3) and one off-site noise sensitive location NSL-1 shown on Figures 3.1 and 3.2. The survey was conducted when the site was fully operational and confirmed that noise emissions complied with the Licence conditions and that the facility is not impacting negatively on the nearest sensitive receptors. A summary of the noise results is shown on Table 3.4.

The $L_{Aeq\ 30\ min}$ level recorded at the offsite station NSL1 was 70 dB, due chiefly to local road traffic which was almost continuous and dominant. No emissions from the Greenstar facility were audible at this location. Therefore noise emissions from the facility were less than the 55 dB limit set in the Licence at NSL1.

Table 3.4Noise Monitoring Results 2011

Station	Time	L _{Aeq 30}	L _{AF10 30}	L _{AF90 30}	Specific	Noise audible
		_{min} dB	_{min} dB	_{min} dB	level* dB	
N1	1513-	55	57	49	55	Façade vents continuously audible at
	1543					low level, although dominant. Truck
	10.0					movements on yard areas audible. No
						other emissions audible apart from bird
3.70	1545			45		calls and intermittent aircraft.
N2	1547-	60	62	47	60	Façade fans dominant until shut down
	1617					at 1550. Thereafter, other onsite
						sources almost continuously audible,
						including processing plant audible
						through building doors and truck
						movements. Bird calls, intermittent
						aircraft and lightly rustling vegetation.
N3	1433-	70	72	69	70	Greenstar façade vents dominant.
	1503					Truck movements in local yard area
	1000					also audible. No other noise audible
						apart from occasional front end loader
						movements at adjacent premises.
NSL1	1634-	70	75	48	<48	No site emissions audible. Local road
	1704					traffic almost continuously audible on
	1,01					approaches, and dominant. Intermittent
						aircraft significant.

^{*} Specific level: Sound pressure level contribution considered attributable to facility.

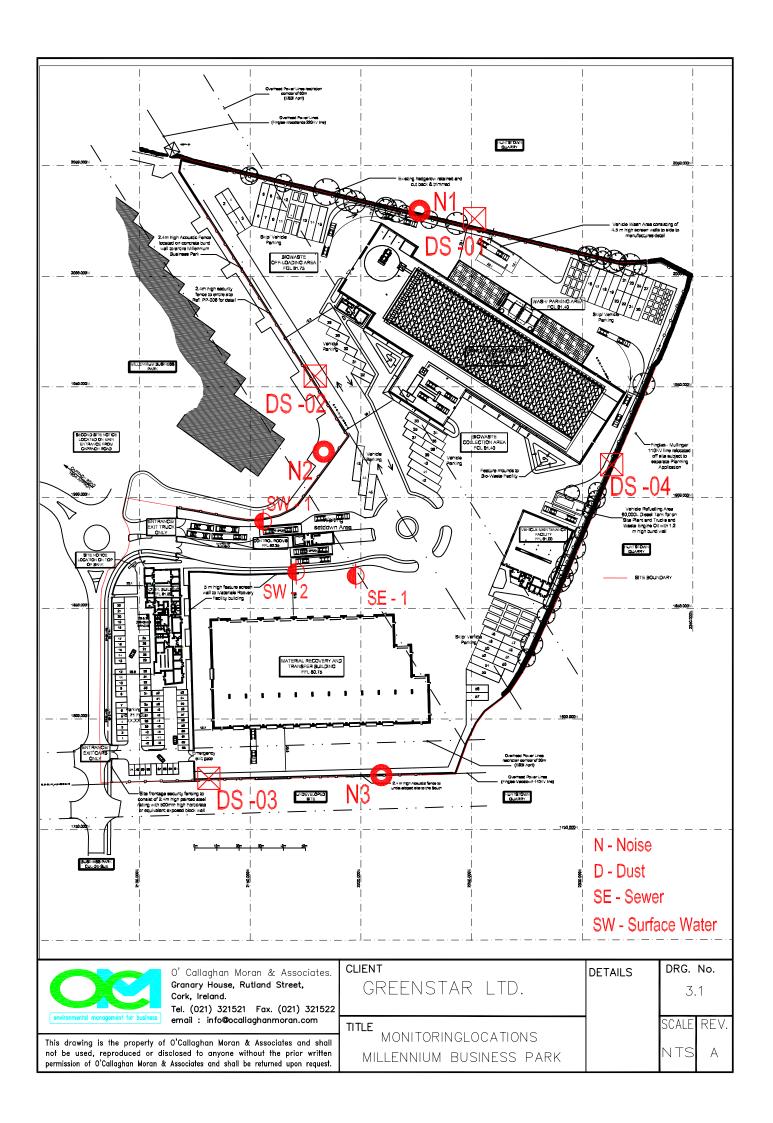
3.4 **Dust Monitoring**

Dust monitoring was carried out on three occasions at four on-site locations (DS-01, DS-02, DS-03 and DS-04) in April/May, May/June and June/July 2011. The Licence requires two of these monitoring events be carried out between May and September. The results of the monitoring are included on Table 3.5.

In 2011 there were no exceedances of the dust deposition limit at any of the monitoring locations. The dust monitoring programme has shown that the facility is not a significant source of dust.

Table 3.4 Dust Monitoring Results

Monitoring Location	Units	April/May '11	May/June '11	June/July '11	Deposition Limit Value
DS-01	mg/m ² /day	55.7	37.3	43.7	350
DS-02	mg/m ² /day	67.5	146.4	27.1	350
DS-03	mg/m ² /day	259.4	246.3	77.4	350
DS-04	mg/m ² /day	107.7	225.6	47.2	350



Batching Plant

Stadium
Business
Park

Figure 3.2 Noise Sensitive Location

4. SITE DEVELOPMENT WORKS

4.1 Specified Engineering Works

No engineering works were carried out in 2011. In Q2 2012 Greenstar proposes to develop the storage area available for Solid Refuse derived Fuel (SRF) bale storage at the facility. Approximately 2,800m² of permeable area will be concreted.

4.2 Summary of Resource & Energy Consumption

Table 4.1 presents an estimate of the resources used on-site during the reporting period.

 Table 4.1
 Estimates of Resources Used On-Site 2011

Resources	Quantities
Diesel (green)	82129 litres
Electricity	1,716,000 Units
Hydraulic, Transmission & Engine Oil	2000 litres
Truck Wash Detergent	100 litres
Mains Water	2,000,000 litres
Anti Freeze	60 litres
Natural Gas	58347 Units

^{*} Mains water usage is an estimate as meter not in use.

4.3 Bund Integrity Testing

Condition 3.13.3 of the Licence requires that tank, drum, pipeline and bund testing is to be carried out every three years. The bunds were tested in May 2009 and the drains in January 2010 and were passed fit for purpose. Testing will be carried out again in 2012.

5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY

Table 5.1 shows the total quantities of waste received and consigned from the facility in 2011. Table 5.2 shows the total quantities of waste received and consigned in 2010. Table 5.3 shows the quantities of waste received and consigned in previous years. A breakdown of the waste types is provided in accordance with the European Waste Catalogue and Hazardous Waste list. A more detailed description of the wastes accepted and consigned is provided in the PRTR submission in Appendix 1.

The total quantity of waste received was 87,191 tonnes. The total waste consigned was 83,181 tonnes. The remaining difference is due to waste which remained on site at the end of 2011 which will be consigned in 2012 and the presence of rainwater in the open top skips brought on-site during the reporting period.

All the wastes consigned from the site went to recovery and disposal facilities agreed with the Agency.

 Table 5.1
 Waste Received & Consigned 2011

EWC	Description	Waste In	Waste Out
10 01 01	Bottom ash, slag and boiler dust	4	
10 03 05	LDF Alumina	14.00	
13 02 08	Waste Oil		3.00
13 05 03	Interceptor sludge	9	
15 01 01	Segregated cardboard & paper packaging	258.00	276
15 01 02	Segregated plastic packaging	128.00	1
15 01 03	Segregated wood packaging	614.00	41
15 01 04	Segregated metal packaging - aluminium cans	4.00	
15 01 06	Segregated mixed packaging	5,987.00	4,889.00
15 01 07	Segregated glass packaging (52.00	
16 01 03	Tyres	139.00	93.00
16 05 04	Haz Gas Cylinders		3.00
16 06 01	Haz Lead Acid Batteries		1.00
17 05 04	Soil & stone from C&D waste	103.00	7,674.00
17 08 02	Gypsum-based construction material e.g. Plasterboard	17.00	
17 09 04	Mixed C&D waste	5,284.00	
19 12 07	Wood		6,267.00
19 12 09	Minerals from mechanical treatment (e.g. inorganic fines, sand, stones)	8.00	16,715.00
19 12 10	RDF Combustible		3,213.00
19 12 12	Mixed Municipal Waste		20,247.00
20 01 01	Paper & cardboard from municipal sources	9.00	
20 01 02	Glass from municipal sources	8.00	
20 01 08	Commercial food waste e.g. canteens, restaurants	1,116.00	6,078.00
20 01 10 / 20 01 11	Textile waste from municipal sources (e.g. clothing, curtains)	38.00	
20 01 35	WEEE	1.00	
20 01 38	Wood waste from municipal sources (e.g. furniture)	2,205.00	998.00
20 01 39	Plastic from municipal sources	3.00	
20 01 40	Metals from municipal waste e.g. light iron	466	2,508.00
20 01 99	Grease trap carbon	1.00	
20 02 01	Biodegradable garden & park waste	7,032.00	41.00
20 03 01	Mixed residual waste (typically black bin)	18,163.00	
20 03 01	Mixed dry recyclables (typically green bin)	12,555.00	
20 03 03	Street-cleaning residues	954.00	2,498.00
20 03 07	Bulky waste	32,019.00	11,635.00
	Total Received	87,191	
	Total Consigned		83,181

 Table 5.2
 Waste Received & Consigned 2010

EWC	Description	Waste In	Waste Out
07 05 13*	Potentially contaminated MSW		117.58
10 01 01	Ash	1.00	
10 03 05	LDF Alumina	10.00	
15 01 01	Cardboard & Paper Packaging	769.00	659.30
15 01 02	Plastic Packaging	120.00	18.00
15 01 03	Wooden Packaging	607.00	41.62
15 01 06	Mixed Packaging	3,813.00	3,546.23
15 01 07	Glass Packaging	54.00	
16 01 03	Tyres	6.00	
17 01 01	Concrete from C&D Waste	7,000.00	
17 04 11	Cables from C&D Waste not containing dangerous substances	1.00	
17 05 04	Soil & Stone from C&D Waste	16.00	56.00
19 09 02	Sludge		2.00
19 09 05	Resin	6.00	
19 12 01	Paper & Cardboard	25.00	
19 12 07	Processed Wood	498.00	3,475.26
19 12 09	Minerals from mechanical treatment	3.00	18,999.15
19 12 10	RDF Combustible		51.38
19 12 12	Mixed Residual Waste from mechanical treatment	21,318.00	1,067.40
20 01 01	Paper & Cardboard	22.00	5.12
20 01 02	Glass	8.00	
20 01 08	Commercial Food Wastes	1,068.00	2,686.00
20 01 35*	WEEE	0.50	
20 01 38	Wood from municipal sources	1,210.00	2,875.00
20 01 39	Plastic from municipal sources	4.00	
20 01 40	Metal from municipal sources	291.00	2,207.19
20 01 99	Gas Cylinders		2.00
20 02 01	Biodegradable garden & park waste	4,809.00	2,424.00
20 03 01	Mixed Residual Waste	4,723.00	
20 03 07	Bulky Waste	28,312.00	30,635.36
	Total Received	74,694.50	
	Total Consigned		68,868.59

 Table 5.3
 Waste Received & Consigned

	2010	2009	2008	2007	2006
Total Received	74,694.50	79,469.57	133,813.88	167,056.84	79,570.21
Total Consigned	68,868.59	77,224.94	129,366.26	161,828.21	80,725.68

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

The routine monitoring programme identified one low ranking incident relating to an exceedance of the suspended solids trigger level sat the surface water monitoring location SW-2 in December 2011. The incident was reported to the Agency and was considered anomalous. There were no other reportable incidents.

6.2 Register of Complaints

Greenstar maintains a register of complaints received in accordance with Condition 9.4 of the waste licence. One complaint in relation to odour at the facility was received in 2011. A copy of the complaints register which includes a description of the actions taken by Greenstar is included in Appendix 2.

7. ENVIRONMENTAL DEVELOPMENT & CONTROL

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.

The IMS has been developed for the achievement of continual improvement taking into the requirements of the Waste Licence Conditions. 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.

As part of this IMS Greenstar has developed a list of environmental, management, operating and maintenance procedures, details of which are outlined in Appendix 3.

The schedule of Objectives and Targets, including their status for 2011 (Table 7.1), as well as the proposed Objectives and Targets for 2012 (Table 7.2) are presented below.

7.1.1 Site Management Structure

Management and Staffing structure: -

Name: Aidan Shanahan

Responsibility: Head of MRF Operations

Experience: 8 years experience waste management experience; has completed the

FÁS waste management course.

Name: Simon Kelly

Responsibility: Greenstar GDA and BPS Engineering Manager

Experience: 7 years experience waste management experience; has completed the

FÁS waste management course.

Name: John Richardson

Responsibility: Facility Manager

Experience: 15 years experience; has completed the FÁS waste management course.

Name: Brian O Toole

Responsibility: Site Operations Manager

Experience: 6 months experience in Waste management, 15 years food and general

industry experience.

7.1.2 Staff Training

Environmental Awareness Training was carried out in 2011.

7.2 Environmental Management Programme

7.2.1 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 – Awareness and Training

Environmental Awareness Training was carried out in 2011.

Objective 2 – Review & Assess the Effectiveness of Nuisance Control Procedures

Nuisance control procedures are review annually as part of ISO 14001 or more frequently should an incident arise at the facility.

Objective 3 – Pollution Prevention

With the exception of one anomalous surface water result in Q4 2011 the facility was compliant with the emission limits set in the Licence.

Objective 4 – Energy Consumption

Energy consumption is reviewed quarterly as part of ISO 14001.

7.2.2 Schedule of Objectives 2012

A schedule of targets and objectives for 2012 has been set by the management of the facility. These objectives are outlined in Table 7.2.

7.3 Communications Programme

Greenstar are committed to setting the standard in waste management and ensuring environmental compliance in all operations. In addition, Greenstar's Environmental Policy makes a specific commitment to make the environmental policy and records available to the public and interested parties.

To this end Greenstar has drawn up a Communications Programme, which details how members of the public are facilitated in accessing environmental information 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.

Table 7.1 Objectives and Targets for 2011 –

No	Objective	Target	Responsibility	Timescale
1	Awareness and Training	Continue to ensure that appropriate training is carried out specific to all site personnel as per the Company's established Training Matrix.	Facility Manager	Complete
2	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.	Facility Manager	Complete
3	Pollution Prevention	Strive to ensure that monitoring results comply with the licence limits and investigate any exceedances of emission limit values.	Facility Manager	Complete
4	Energy Consumption	Retrofit energy efficient lighting inside the MRF building. Investigate the night load for the MRF with the target of reducing this to approximately 50 kW	Facility Manager	Complete

 Table 7.2
 Schedule of Objective and Targets 2012

No	Objective	Target	Responsibility	Timescale
1	Awareness and Training	. Continue to ensure that appropriate training is carried out specific to all site personnel as per the Company's established Training Matrix.	Facility Manager	Q4 2012
2	Nuisance Controls	To continually review and assess all nuisance control procedures to ensure minimal impact on the surrounding area using the number of complaints received as the measure of effectiveness.	Facility Manager	Q1-Q4 2012
3	Energy Consumption	Investigate and remedy heavy electrical usage during weeknights. Differential between weeknights and weekends of around 30KW by 01-Apr-2012	Facility Manager	Q2 2012
4	Pollution Prevention	Strive to ensure that emissions comply with the licence limits and investigate any exceedances of emission limit values.	Facility Manager	Q1-Q4 2012
5	Infrastructure	Concrete storage area for SRF Bales externally	Facility Manager	Q2 2012

7.4 Report Financial Provision

Greenstar also has adequate insurance cover for environmental liabilities to €10,000,000 for any one occurrence, which will apply to "sudden identifiable and unintended incidents".

7.5 Nuisance Controls

Greenstar has contracted a vermin control company Pestguard to carry out nuisance control at the facility. Pestguard undertake a 6 weekly review of the vermin activity on-site along with an inspection of the bait traps that are located throughout the facility. Bird control procedures were updated in 2010 to include the use of a bird kite at the facility.

7.6 European Pollutant Release and Transfer Register Regulation

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 1.

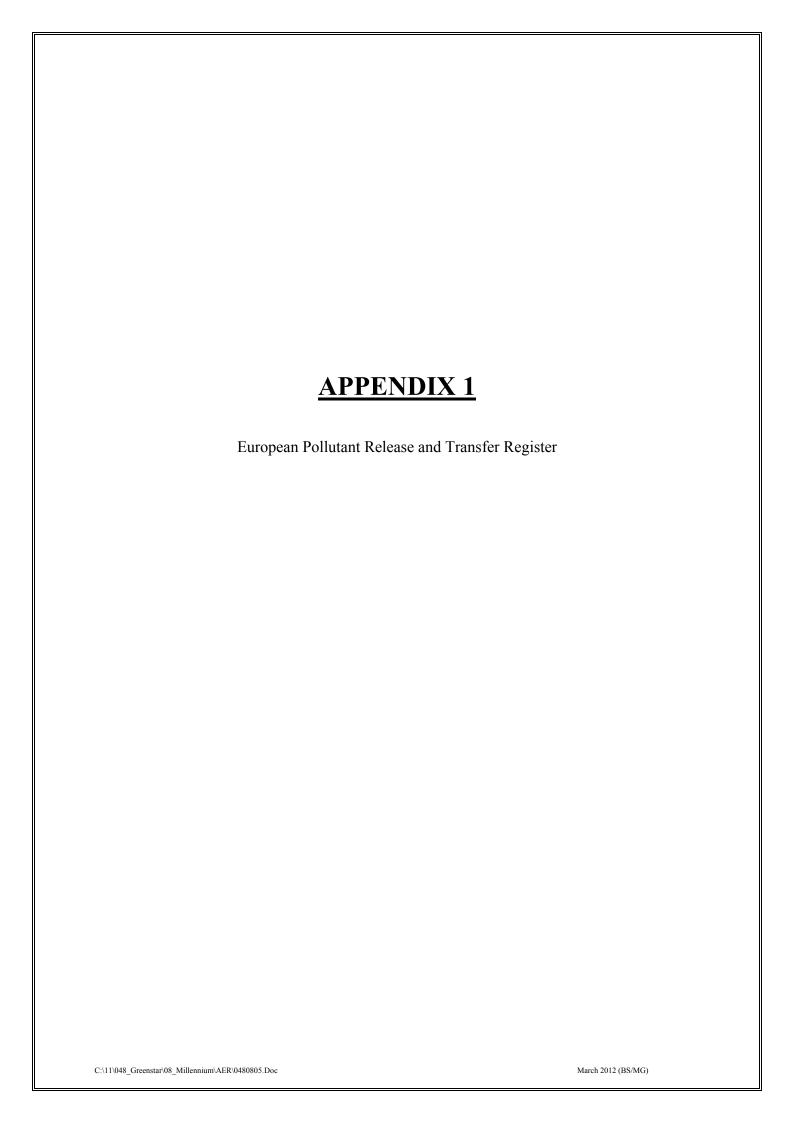
7.7 Rainwater and Wastewater Volumes

No rainwater was reused at the facility during the reporting period as the grey water reuse system has been de-commissioned. It is not possible to give an exact figure for the amount of wastewater produced during the reporting period. There was not any wastewater/sludge removed off site in 2011 from the bund, interceptors and drainage lines as part of the sites routine cleaning programme. Approximately 1,000 m³ of water was used by the truck wash during the year.

Wastewater discharges to the municipal sewer serving the industrial estate and ultimately to a waste water treatment plant operated by Fingal County Council.

8. OTHER REPORTS

No other reports were requested by the Agency for inclusion in the AER in 2011.





Guidance to completing the PRTR workbook

AER Returns Workbook

REFERENCE YEAR 2011

1	ITV	IDENTIFICATION

Parent Company Name Gre	eenstar Holdings Limited
Facility Name Gre	eenstar Limited
PRTR Identification Number W0	183
Licence Number W0	183-01

Waste or IPPC Classes of Activity

No. class_name

Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological

- 4.2 transformation processes).

 Blending or mixture prior to submission to any activity referred to in
- 3.11 a preceding paragraph of this Schedule.
- Repackaging prior to submission to any activity referred to in a
- 3.12 preceding paragraph of this Schedule.
 - 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
- 3.13 concerned is produced.
 - Use of waste obtained from any activity referred to in a preceding
- paragraph of this Schedule.
- Exchange of waste for submission to any activity referred to in a
- 4.12 preceding paragraph of this Schedule. 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.

4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
	Millennium Business Park
Address 2	Grange
Address 3	Ballycoolin
Address 4	Dublin 11
	Dublin
Country	
Coordinates of Location	
River Basin District	
NACE Code	
	Recovery of sorted materials
AER Returns Contact Name	
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	
Production Volume Units	
Number of Installations	
Number of Operating Hours in Year	
Number of Employees	
User Feedback/Comments	
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)

ls 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?	

4.1 RELEASES TO AIR

RELEASES TO AIR SECTION A: SECTOR SPECIFIC PRTR POLLUTANTS No. Annex II

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

Od	HELDTANT		ME	ETHOD			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 dick the delete button

	RELEASES TO AIR				Please enter all quantities	in this section in KGs		
PO	ILLUTANT		ME	ETHOD			QUANTITY	
				Method Used				
Polutant 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		00	00

Additional Data Requested from Landfill operators	fill operators					
For the purposes of the Netional Piventory on Greenhouse Gases, landfill operators are requested to provide summary data on the another as the control of t	se Gases, landfill operators are requested to provide of on their facilities to accompany the figures for total Met methane (CH4) entission to the environment under ants above. Heese complete the table below:					
Landfill:	Greenstar Limited					
Please enter summary data on the cuantities of methane flared and / or utilised			Meth	Method 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						
(lepom	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/N	

SECTOR SPECIFIC PRTR POLLUTANTS	LLUTANTS	Data on an	nbient monitoring of	ta on ambient monitoring of storm/surface water or groundw	ater, conducted as part of yo	ur licence requirements, sho	er or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as t	ER / PRTR Reporting as t
	RELEASES TO WATERS				Please enter all quantiti	ntities in this section in KGs	is st	
IOA	POLLUTANT						QUANTITY	
			V	Method Used				
No. Annex II	Name	M/C/E	Į	Method Code Designation or Description Emission Point 1	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year F (Fugitive) KG/Year	F (Fugitive) KG/Year
)	0.0	0'0 0	0'0

PRTR#: W0183 | Facility Name: Greenstar Limited | Filename: W0183_2011.xls | Return Year: 2011 |

* 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 quant	ities in this section in K(Gs	
10d	POLLUTANT						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 C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO WATER	RELEASES TO WATERS				Please enter all quantitie	s in this section in K	Gs	
Od	POLLUTANT						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 (F	F (Fugitive) KG/Year
					0.0	0 (0.0	0.0

SECTION A: PRTR POLLUTANTS

	OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATME	NT OR SEWER		Please enter all quantities	in this section in KGs		
	POLLUTANT	ME	METHOD			QUANTITY	
			Method Used				
No. Annex II	Name Na	'C/E Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year

SECTION B : REMAINING POLLUTANT EN	MISSIONS (as required in your Licence)							
	OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER	IMENT OR	SEWER		Please enter all quantities in this section in KGs	s in this section in KGs		
	POLLUTANT			METHOD			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	F (Fugitive) KG/Year
				Based on an estimate of				
				water used in the wheel				
				wash. Analysis is ISO				
238	Ammonia (as N)	ш	PER	accredited	31.91	31.91	0.0	0.0
				Based on an estimate of				
				water used in the wheel				
				wash. Analysis is ISO				
303	BOD	ш	PER	accredited	514.5	.5 514.5	0.0	0.0
				Based on an estimate of				
				water used in the wheel				
				wash. Analysis is ISO				
306	COD	ш	PER	accredited	1270.0	1270.0	0.0	0.0
				Based on an estimate of				
				water used in the wheel				
				wash. Analysis is ISO				
308	Detergents (as MBAS)	ш	PER	accredited	3.15	3.15	0.0	0.0
				Based on an estimate of				
				water used in the wheel				
				wash. Analysis is ISO				
314	Fats, Oils and Greases	ш	PER	accredited	4.515	15 4.515	0.0	0.0
				Based on an estimate of				
				water used in the wheel				
				wash. Analysis is ISO				
343	Sulphate	ш	PER	accredited	364.535	35 364.535	0.0	0.0
				Based on an estimate of				
				water used in the wheel				
				wash. Analysis is ISO				
240	Suspended Solids	ш	PER	accredited	706.5	.5 706.5	0.0	0.0

27/03/2012 08:54

Link to previous years emissions data

4.4 RELEASES TO LAND

No. Annex No.	SECTION A: PRTR POLLUTANTS							
POLLUTANT METHOD METHOD Instituted Used Method Used Instituted Code Insti		RELEASES TO LAND				≢	in this section in KGs	
Mame M/C/E Method Code Designation or Description Emission Point 1 T (Total) KG/Year 0.0 0.0	PC	OLLUTANT		M	ETHOD			QUANTITY
Mame M/C/E Method Cacle Designation or Description Emission Point 1 T (Total) KG/Year 0.0 0.0					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
						0'0	.0	0.0

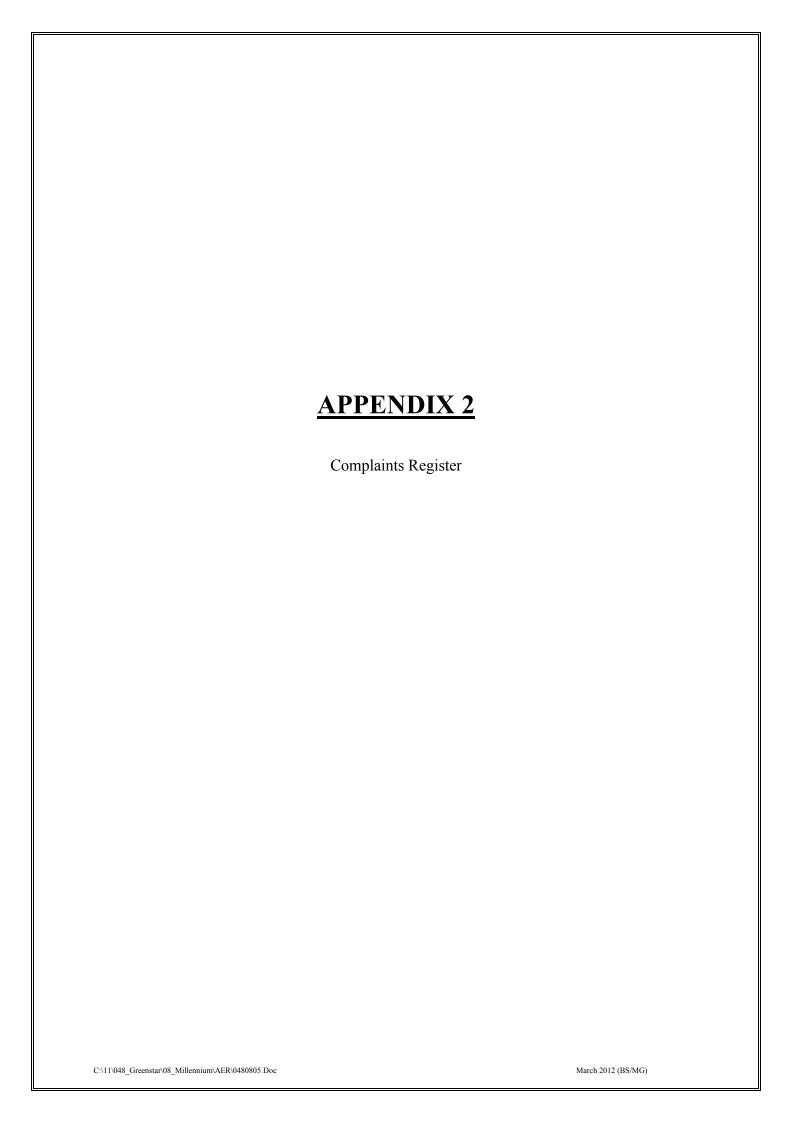
* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

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

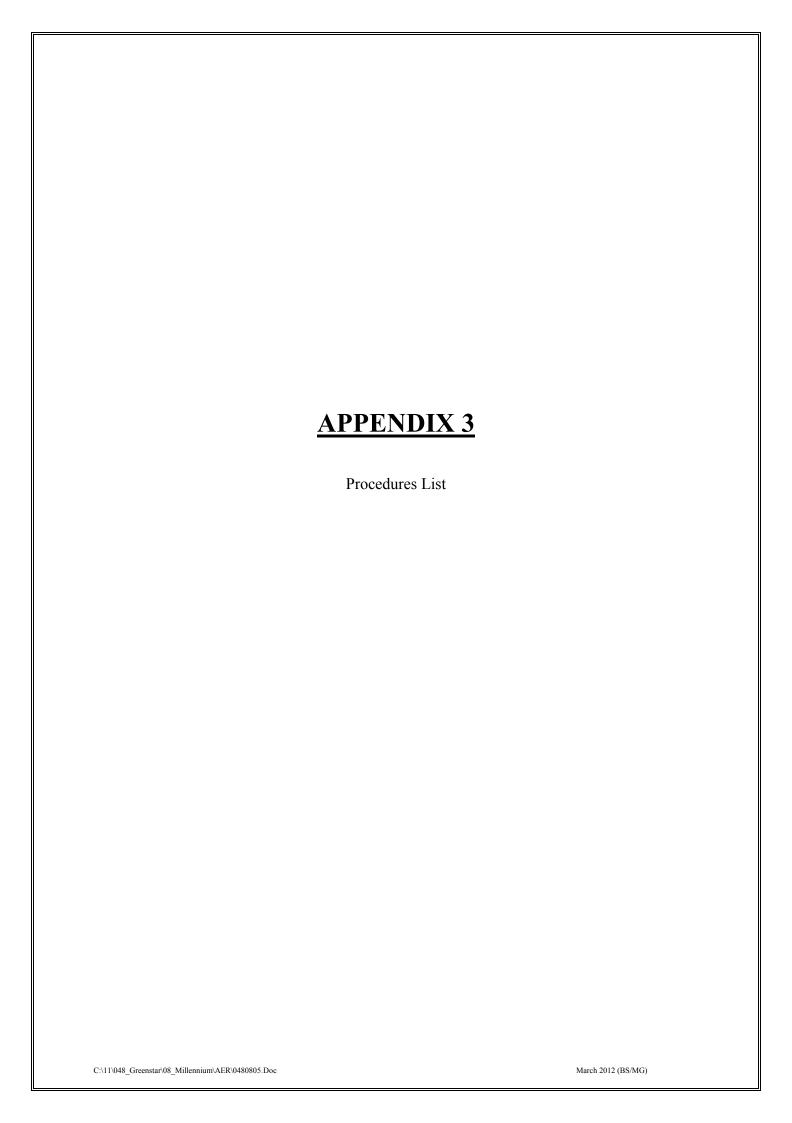
		RELEASES TO LAND				Please enter all quantities	in this section in KGs	
PC	OLLUTANT			M	METHOD			QUANTITY
					Method Used			
Pollutant No.	Name		M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
						0.0	0	0.0

· [5 2 ~																								
	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)																								
	Name and License / Permit No. and Address of Final Recoveer / Disposer (HAZARDOUS WASTE ONLY)																								
	Haz Waste: Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer		Millennium Park Business Park, Ballycoolin, Dublin, Dubli n, Ireland	Park, Ballycoolin Bailey Waste Recycling, WFP - Road, Blanchardstown, Dublin FG-08-0002-01	Colemanstown, Rathcoole, Co . Dublin, "Ireland	Fassaroe,Bray,Co. Wicklow, Ireland	Mooretown ,Dromiskin,Dundalk ,Co.Louth,Ireland	Bluebell, Dublin 12, Ireland	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly, Ireland	Ballynagran, Coolbeg & Kilcandra, Co. Wicklow, Ireland	Ballynagran, Cooloeg & Kilcandra, Co Wicklow, Ireland	Knocknaney ,Navan,Co. Meath,,Ireland	Kildare, Ireland	Lissarda, Co. Cork, Ireland		Ballynagran, Coolbeg & Kilcandra, Co Wicklow, Ireland	Knockharley ,Navan,Co. Meath, ,Ireland	Kildare,Ireland	Connaught regional Landfill., Ballinasloe, Co. Galway, Ireland	rillamaster r, Tullow,Carlow,Co. Carlow,Ireland	Ballynagran, Coolbeg & Kilcandra, Co. Wicklow, "Ireland	Knockharley ,Navan,Co. Meath.,Ireland	Kildare, , , Ireland	Ballynagran, Coolbeg & Kilcandra, Co. Wicklow, "Ireland	Brav Co Wiklow Ireland
	Haz Waste: Name and Licence/Permit No of Next Destination Facility Name and Licence/Fermit No of Recover Disposer		Greenstar Millennium Park,W0183-01	Bailey Waste Recycling,WFP FG-08-0002-01	Max Pallet Services Ltd.,Not Required	Greenstar Limited,W0053-03	Crumb Rubber Ireland Limited	BOC Gas Dublin,	KMK Metals,	Greenstar Holdings Ltd.,W0165-02	Greenstar Holdings Ltd.,W0165-02	Greenstar Holdings Ltd,W0146-02	KTK Landfill, W0081-01	Eirebloc,CK(S) 503/07	Greenstar Limited, W0053-03	Greenstar Holdings Ltd.,W0165-02	Greenstar Holdings Ltd,W0146-02	KTK Landfill,W0081-01	Greenstar Holdings Ltd ,W0178-01	Waddock Composting Facility, Tullow, Carlow, Co. Ltd ,WFP-CW-11-05-01 Carlow, Ireland	Greenstar Holdings Ltd.,W0165-02	Greenstar Holdings Ltd.W0146-02	KTK Landfill, W0081-01	Greenstar Holdings Ltd.,W0165-02	Offeste in Iraland - MRF Rray Greenstar
		Location of Treatment	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland
	Method Used	Method Used	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed
		M/C/E	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	≥	≥	Σ	Σ	Σ	2
	Waste	Treatment		_	_	_		_	_	_						_		_		_	_	_	_	_	
F		Ę O	ing D5	R3	R3	R3	RS	s R4	R4	35 17 R3	bed .	BS .	ned R5	06 R3	: 06 R3	06 R3	06 R3	: 06 R3	06 R3	: 06 R3	R3	R3	22	23	rials) ner D5
Composition of the composition o		Description of Waste	bottom ash, stag and boiler dust (excluding 4.0 boiler dust mentioned in 10 01 04)	272.0 paper and cardboard packaging	41.0 wooden packaging	4889.0 mixed packaging	93.0 end-of-life tyres	gases in pressure containers (including 3.0 halons) containing dangerous substances	1.0 lead batteries	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 53.0 09 02 and 17 09 03	soil and stones other than those mentioned 2435.0 in 17 05 03	soll and stones other than those mentioned 1864.0 in 17 05 03	soll and stones other than those mentioned 3322.0 in 17 05 03	568.0 wood other than that mentioned in 19 12 06	32.0 wood other than that mentioned in 19 12 06	995.0 wood other than that mentioned in 19 12 06	2477.0 wood other than that mentioned in 19 12 06	1793.0 wood other than that mentioned in 19 12 06	105.0 wood other than that mentioned in 19 12 06	297.0 wood other than that mentioned in 19 12 06	1593.0 minerals (for example sand, stones)	4208.0 minerals (for example sand, stones)	352.0 minerals (for example sand, stones)	10562.0 minerals (for example sand, stones)	other wastes (including mixtures of materials) from mechanical treatment of wastes other 21.0 than those mentioned in 19 12 11
Ligase cities	Quantity (Tonnes per Year)		4.0	272.0	41.0	4889.0	93.0	3.0	1.0	53.0	2435.0	1864.0	3322.0	568.0	32.0	995.0	2477.0	1793.0	105.0	297.0	1593.0	4208.0	352.0	10562.0	21.0
		Hazardous	9N	2	g	g	9	Yes	Yes	2	g	_S	9	9 8	9 N	9	9 8	_S	ę.	_S	e 2	9	9V	g	2
		European Waste Code	10	01 01	15 01 03	15 01 06	16 01 03	16 05 04	16 06 01	17 09 04	17 05 04	17 05 04	17 05 04	19 12 07	19 12 07	19 12 07	19 12 07	19 12 07	19 12 07	19 12 07	19 12 09	19 12 09	19 12 09	19 12 09	19 12 12
l			ry 10 01	15																					
		Transfer Destination	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country

Ballynagran,Coolbeg & Kilcandra,Co. Wicklow,Ireland	Knockharley ,Navan,Co. Meath, ,Ireland	Kilcullen,Co. Kildare,,Ireland	Crag Ave., Clondalkin,., Dublin 22, Ireland	Drehid LandfillCarbury,Co Kildare,Ireland	Bray.Co. Wiklow,Ireland	Kilcullen, Co. Kildare,,,,,Ireland	CarlanstownDuleek,Co Meath,Ireland	Drehid LandfillCarbury,Co Kildare,Ireland	Tipperary,Ireland	Ballintrane, Fenagh, ,Co Carlow,Ireland	>- Ki∎owen,Portlaw,Co Waterford ,Ireland	Lissarda, Co. Cork,, Ireland	blessington, co wicklow ,Ireland	Davis Hecycling at Hammond Lane Metal Co Ltd,WFP-CK, Flingaskiddy,Co Cork,Ireland Cork,Ireland Forth English Forty Mile Cork, Ireland	Meath , Ireland	Knocknaffey , Navan, Co. Meath, , Ireland	Kildare,Ireland ,Bray,Co. Wiklow,Ireland	Knockharley ,Navan,Co. Meath,,Ireland	Crag Ave., Clondalkin, Dublin 22, Ireland	Portlaoise, Co Laois, Ireland	Kinnegad,,Co Meath,Ireland	Crag Ave., Clondalkin, "Dublin 22, Ireland
Greenstar Holdings Ltd.,W0165-02	Greenstar Holdings Ltd,W0146-02	KTK Landfill,W0081-01	Greyhound Recycling & Recovery,W0205-01	Bord na Mona. W0201-03	Offsite in Ireland MRF Bray Greenstar,	Offsite in Ireland KTK LandiflI,W0081-01	Offsite in Ireland Indaver IWMF, W0167-02	Bord na Mona.,W0201-03	Acorn Recycling,W0249-01	CW-10-0003-01	Ormonde Organics,WFF-WD- 10-0003-01	Eirebloc,CK(S) 503/07	Multi Metals, WFF-WW-09- 0014-01	Lane Metal Co Ltd,WFP-CK- 10-0077-02	08/0004/01	Greenstar Holdings Ltd,W0146-02	KTK Landfill,W0081-01 MRF Bray Greenstar,	Greenstar Holdings Ltd,W0146-02	Greyhound Recycling & Recovery,W0205-01	Enva Ireland Ltd, W0184-01	Lagan Cement Ltd, P0487-05	Greyhound Recycling & Recovery,W0205-01
Greenstar Hold Offsite in Ireland Ltd.,W0165-02	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland
Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed Weighed	Weighed	Weighed	Weighed	Weighed	Weighed
Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	≥≥	Σ	Σ	Σ	Σ	Σ
ials) er D5	ials) er D5	ials) er D5	ials) er D5	ials) er D5	ials) er D5	ials) er D5	ials) er D5	ials) er D5	e R3	e R3	37 R3	37 R3	B4	R4	R3	DS	DS RS	RS	83	RS	RS	RS
other wastes (including mixtures of materials) from mechanical treatment of wastes other 221.0 than those mentioned in 19 12 11	other wastes (including mixtures of materials) from mechanical treatment of wastes other 285.0 than those mentioned in 19 12 11	other wastes (including mixtures of materials) from mechanical treatment of wastes other 12856.0 than those mentioned in 19 12 11	other wastes (including mixtures of materials) from mechanical treatment of wastes other 1220.0 than those mentioned in 19 12 11	other wastes (including mixtures of materials) from mechanical treatment of wastes other 220.0 than those mentioned in 19 12 11	other wastes (including mixtures of materials) from mechanical treatment of wastes other 63.0 than those mentioned in 19 12 11	other wastes (including mixtures of materials) from mechanical treatment of wastes other 1022.0 than those mentioned in 19 12 11	other wastes (including mixtures of materials) from mechanical treatment of wastes other 3188.0 than those mentioned in 19 12 11	other wastes (including mixtures of materials) from mechanical treatment of wastes other 1151.0 than those mentioned in 19 12 11	109.0 biodegradable kitchen and canteen waste	5969.0 biodegradable kitchen and canteen waste	55.0 wood other than that mentioned in 20 01 37	943.0 wood other than that mentioned in 20 01 37	117.0 metals	2391.0 metals	41.0 biodegradable waste	2188.0 street-cleaning residues	310.0 street-cleaning residues 15.0 bulky waste	10727.0 bulky waste	893.0 bulky waste	3.0 other engine, gear and lubricating oils	2236.0 combustible waste (refuse derived fuel)	977.0 combustible waste (refuse derived fuel)
°N	8	^o N	oN N	9V	N N	_Q	N _O	Š	°N	o N	_o N	_S	o N	Ŷ	8	_S	22	N N	Š	Yes	8	8
19 12 12	19 12 12	19 12 12	19 12 12	19 12 12	19 12 12	19 12 12	19 12 12	19 12 12	20 01 08	20 01 08	20 01 38	20 01 38	20 01 40	20 01 40	20 02 01	20 03 03	20 03 03 20 03 07	20 03 07	20 03 07	13 02 08	19 12 10	19 12 10
Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country Within the Country	Within the Country	Within the Country	Within the Country	Within the Country	Within the Country



Date Opened	Details of the Issue	Person Responsible (Facility Manager, Env Exceutive, Site Supervisor etc)	Corrective Action
14.11.11	K.Geoghegan/artisan furniture/odour	JR	with reduced intake of material O tooles to colled 3 times per week, regardless of tonnes on floor







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Integrated F	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 Pr	ocedures - 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 – Group Environmental Manager	Page 2 of 4
	Oliver Callan - Group H&S Manager	

Environm	ental 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