



ANNUAL ENVIRONMENTAL REPORT
GREENSTAR ENVIRONMENTAL SERVICES LIMITED
MATERIALS RECOVERY FACILITY
BALLYMOUNT
LICENCE NO. W0039-02
JANUARY 2010 – DECEMBER 2010

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31st March 2011

Project		Annual Environmental Report 2010		
Client		Greenstar Environmental Services Ltd. W0039-02		
Report No	Date	Status	Prepared By	Reviewed By
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0480401	31/03/2010	Final	Martina Gleeson PhD	Michael Watson MA.

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1. INTRODUCTION

This is the 2010 Annual Environmental Report (AER) for the Greenstar Environmental Services Ltd. (GES), Materials Recovery Facility (MRF) at Ballymount Cross, Tallaght, Dublin 24 and covers the period January 2010 to December 2010.

The Waste Licence (W0039-02) is held by GES who operated the site during the reporting period from the 1st January 2010 to the 16th June 2010. The facility was subsequently leased and has been operated by Panda Waste Services Ltd. (Panda) under licence from GES from the 17th June 2010 to 31st December 2010.

The content of the AER is based on Schedule B of the licence and the report format follows guidelines set in the “Guidance Note for Annual Environmental Report” issued by the Environmental Protection Agency (Agency)¹.

¹ EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency

2. SITE DESCRIPTION

2.1 Site Location and Layout

The facility is located in Ballymount Industrial Estate, Tallaght, Dublin 24. The surrounding area is extensively developed for commercial and light industrial use, with a number of private residences within 250 m of the facility boundary. The site is accessed off the Ballymount Road, which forms the south western boundary.

2.2 Waste Management Activities

The facility is licensed to accept and process 150,000 tonnes of waste per annum, comprising municipal waste, commercial and industrial waste (C&I), waste electronic and electric equipment (WEEE) and construction and demolition waste (C&D). There is no limit set in for each waste stream, provided the total input does not exceed 150,000 tonnes per annum.

2.2.1 Waste Processes

The key processes carried out include: -

- Segregation of recyclable materials (paper, cardboards, plastic, wood, metals, glass) from the Household and C&I wastes;
- Bulking up and transfer of waste to appropriately licensed recycling, recovery and disposal outlets;
- Segregation, bulking and transfer of C&D waste to appropriately licensed recycling, recovery and disposal outlets;

Household Waste

All waste deliveries are weighed on the weighbridge and then directed to the waste transfer building where material is off-loaded onto the floor. Mixed household waste collected in the 'black bin' is transferred to large bulk transporters, and is then either sent to an appropriate licensed landfill or specialised Materials Recovery Facility.

All incoming household skips either are netted or covered. Recyclable material is segregated, where possible, from the waste and transferred off-site to suitable licensed

or permitted recycling facilities. The remaining non-recyclable and residual material is sent to licensed landfill.

The biodegradable wastes that are suitable for composting are sent to an offsite composting facility.

Commercial and Industrial Waste

Both mixed and source segregated waste is delivered to the facility both by Panda and other permitted hauliers. Recyclables are stored in the waste transfer building prior to transfer. Biodegradable wastes suitable for composting are sent to an offsite composting facility. The remaining non-recyclable material is bulked and sent to appropriately licensed landfills.

C&D Waste

Waste loads include mixed construction and demolition wastes and soil and stone. The material arrives in skips of varying sizes. The waste loads are inspected and then processed. The majority of the incoming C&D material is recovered and sent off-site either for re-use or recycling. The non-recyclable materials are transferred to a licensed landfill.

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 Existing Plant

No.	Plant	Model	Operational Capacity	Standby Capacity
1	Volvo	L150	300	200
1	Volvo	L220	400	250
1	Cat	M318	250	100

3. EMISSION MONITORING

Monitoring of surface water, foul water, noise and dust is carried out in accordance with Condition 9 and Schedule E of the licence. 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

Rainfall run-off from the roofs and paved yard area is directed to the surface water drainage system. Discharge to the municipal storm sewer is via a grit trap and oil interceptor. There is an inspection point (SW-1) that allows the sampling and inspection of the final surface water discharge to the municipal storm water sewer serving the Industrial Estate. Just after the inspection point inside the facility boundary, there is also a manually operated shut off valve that can be used to stop the discharge of surface water to the municipal storm sewer in the event of an emergency.

Sampling is carried out monthly in accordance with Schedule E, however it was not possible to collect samples at SW-1 in April or December, as there was no flow (due to dry weather conditions) on these occasions. The sampling and analysis was carried out in accordance with recognised quality assurance and control procedures. The range of analysis was as specified in Schedule E and included Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), total suspended solids (TSS), pH, electrical conductivity and oils, fats and greases. The results are included on Table 3.1, which also includes the Emission Limit Values (ELV) set in the licence.

Table 3.1 Surface Water Monitoring Results 2010 SW-1

Parameters	Units	Jan	Feb	Mar	Apr	May	Jun	ELV
pH	pH Units	7.5	7.3	7.4	-	6.9	7.0	6-10
Conductivity	mS/cm	0.859	0.290	0.199	-	0.249	0.240	-
BOD	mg/l	44	40	10	-	<2	>10	20
COD	mg/l	249	72	53	-	27	39	-
TSS	mg/l	26	46	6	-	10	<5	30
OFGs	mg/l	8	2	<1	-	4	6	10

Parameters	Units	Jul	Aug	Sept	Oct	Nov	Dec	ELV
pH	pH Units	7.0	7.0	7.2	7.0	6.97	-	6-10
Conductivity	mS/cm	0.248	0.286	0.217	0.414	0.438	-	-
BOD	mg/l	<47	85	<2	67	95	-	20
COD	mg/l	60	89	65	42	214	-	-
TSS	mg/l	21	47	8	37	32	-	30
OFGs	mg/l	3	<4	<4	<4	<0.01	-	10

The ELV for BOD was exceeded in January, February, August, October and November 2010. The ELV for TSS was exceeded in February, August, October and November. At the time of monitoring, there had not been any incidents (spill or accidental release). The Agency was informed of these exceedances in accordance with Condition 3.3 and 3.4 of the licence. While the exceedances were unlikely to have a significant impact on the storm water sewer serving the Industrial Estate, an incident investigation identified the need to completely clean out the drainage including the interceptors and this is scheduled for Q1 2011. A regular maintenance programme has also been established.

3.2 Wastewater Monitoring

Wastewater from the truck wash passes through a grit trap and oil interceptor before discharging to the foul sewer serving the Industrial Estate. Rainfall run off from the diesel filling area, which passes through a separate oil interceptor, and run off from the ramp and hard standing area also discharges to the foul sewer. Monitoring is carried out, in accordance with Schedule E of the licence, bi-monthly at one monitoring location (FW-1).

The sampling and analysis was carried out in accordance with recognised quality assurance and control procedures. The range of analysis was as specified in Schedule E and included BOD, COD, TSS, pH, detergents and oils, fats and greases. The results are included on Table 3.2 which also shows the ELVs set in the licence. The discharge was fully compliant with the ELVs.

Wastewater flow is calculated using the water supply meter and daily rainfall data and is reported quarterly. The flow for the reporting period was 2,160 m³.

Table 3.2 Wastewater Monitoring Results 2010 FW-1

Parameter	Units	Jan	Mar	May	Aug	Sept	Nov	Dec	ELV
pH	pH units	6.6	7.4	7.6	8.0	8.9	7.20	6.82	6-10
BOD	mg/l	888	88	187	34	202	137	684	2000
COD	mg/l	1728	344	199	62	550	304	1077	4000
TSS	mg/l	921	164	31	17	248	952	322	1000
Fats Oils Grease	mg/l	50	<1	5	2	31	<0.01	<0.01	100
Detergents	mg/l	0.14	<0.1	<0.1	<0.2	*	0.3	0.8	100

* - Laboratory could not locate sample portion to perform this test

3.3 Noise Monitoring

The annual noise survey was conducted in December 2010 and included both daytime and night time monitoring. The monitoring locations include three points on the boundary (B1 – B3) and one noise sensitive location (NSL1). The survey was conducted when the site was operational and confirmed that noise emissions complied with the licence conditions and was not affecting the nearest sensitive receptors. A summary of the noise results are shown on Tables 3.4 and 3.5.

During the daytime survey, the noise emission measured at NSL1 was 72 dB. The noise environment was dominated by local traffic noise on the Upper Ballymount Road. It was not possible to estimate the contribution specifically attributable to the GES facility, however site operations were inaudible. Therefore it is reasonable to conclude that noise emissions from the facility were likely to have been significantly lower than the 55 dB limit set in the Licence at NSL1.

During the night time survey, there was no noise emission from the GES site apart from an inward and outward truck movement. The GES contribution at NSL1 was estimated at significantly lower than 45 dB.

Table 3.4 Noise Monitoring Results 2010 – Daytime Survey

Station	Time	LA _{eq} 30 min dB	LAF ₁₀ 30 min dB	LAF ₉₀ 30 min dB	Specific level* dB	Noise audible
B1	1428-1458	51	52	47	<47	GES emissions not significant here due to screening provided by intervening trailers and plant. Onsite front end loader and truck movements audible, although masked by significant road traffic noise offsite on UBR. Bird calls also audible.
B2	1506-1536	70	73	59	70	Front end loader audible continuously in building and around yard, occasionally approaching sound level meter. Trucks also occasionally passing close to meter. Bird calls. During site lulls, offsite road traffic audible.
B3	1354-1424	66	67	59	60	Intermittent truck movements through entrance and weighbridge area dominant when present, including when idling on weighbridge. No other GES emissions audible due to dominance of continuous traffic noise on UBR. Only other noise source audible: bird calls.
NS1	1543-1613	72	75	64	<64	Apart from vehicles through entrance, no GES emissions audible due to continuous dominance of passing road traffic. No other sources audible.

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

Table 3.5 Noise Monitoring Results 2010 – Night-time Survey

Station	Time	LA _{eq} 30 min dB	LAF ₁₀ 30 min dB	LAF ₉₀ 30 min dB	Specific level* dB	Noise audible
B1	2253-2323	45	46	43	<43	No GES noise sources present, apart from truck arrival 2314 and departure 2318. Traffic on distant roads, particularly M50 to NW, continuously dominant. No other noise audible apart from intermittent traffic on UBR.
B2	2330-0000	53	59	44	50	No GES noise sources, apart from single waste delivery 2343-2353 (most of this time spent idling on weighbridge). Distant road traffic continuously audible and significant. Intermittent UBR traffic also audible.
B3	2217-2249	56	60	49	<49	No GES noise sources. Intermittent local traffic on UBR, dominant when present. Distant traffic continuously significant in background, particularly to NW.
NS1	0006-0036	62	63	45	<45	No GES sources, apart from truck gate 00238 (in) and 0032 (out). Intermittent UBR traffic dominant when present. Distant traffic continuously audible and significant. No other sources audible, apart from aircraft x 1.

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

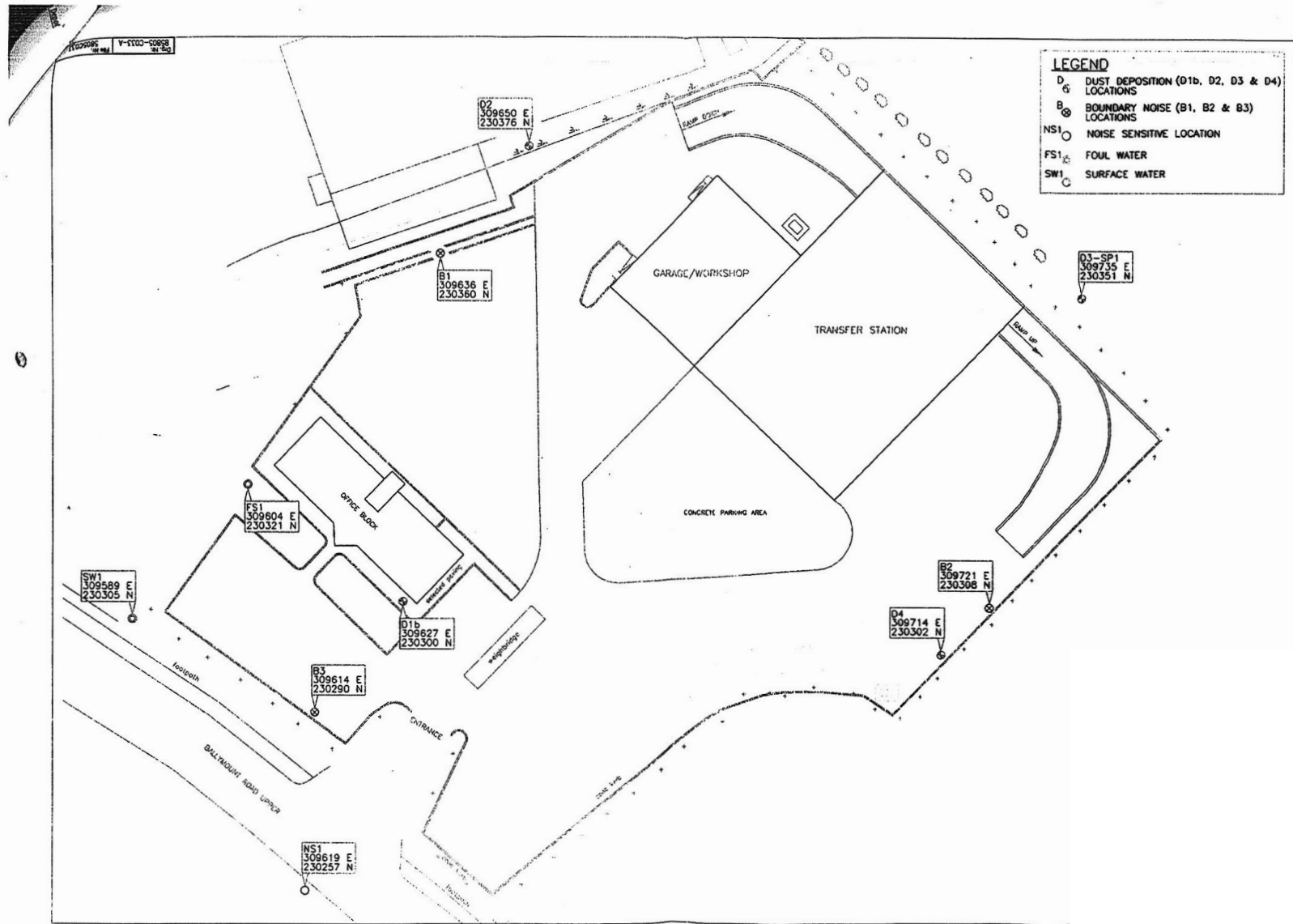
3.4 Dust Monitoring

Dust monitoring was carried out on three occasions in February, May and June in accordance with Schedule E. and the results are included in Table 3.5. Out of the twelve measurements there were two exceedances of the deposition limit (350mg/m²/day). These occurred in February at D2 (485.1 mg/m²/day) and in August at D4 (655.6 mg/m²/day) and the Agency was notified.

Table 3.4 Dust Monitoring Results 2010

	Units	Feb	May	Aug	Deposition Limit Value
D1B	mg/m ² /day	224.6	74.1	108.9	350
D2	mg/m ² /day	485.1	296.1	314.7	350
D3	mg/m ² /day	88.5	17.3	286.7	350
D4	mg/m ² /day	277.2	*	655.6	350

* - Sample Lost



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CLIENT
GES Ballymount

Details

FIGURE NUMBER
3.1

TITLE
Monitoring Locations

Scale
 Not To Scale

Job Number:
1104804

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4. SITE DEVELOPMENT WORKS

4.1 Engineering Works

There were no engineering works carried out in 2010. There are no engineering works planned for 2011.

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 Estimate of Resources Used On-Site

Resources	Quantities
Diesel (green)	1000 / litres /week
Electricity	1,367,083 Units
Hydraulic Oil	20 litres / week
Engine Oil	20 litres / week
Anti Freeze	10 litres / week
Odour Neutraliser	20 litres / week

4.3 Bund Integrity Testing

Condition 4.4 of the licence requires that tank and bund testing be carried out at least once every three years. Testing was carried out in 2008 which confirmed the integrity of the infrastructure was fit for purpose and will be repeated in 2011.

5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY

Table 5.1 shows the total quantities of waste received and consigned from the facility in 2010. Table 5.2 shows the total quantities of waste received and consigned in 2009. A breakdown of the waste types is provided in accordance with the European Waste Catalogue and Hazardous Waste list.

The total quantity of waste received was 90,844.71 tonnes. The total waste consigned was 88,524.72 tonnes. Approximately 495 tonnes of waste remained on site at the end of 2010, which will be consigned in 2011. The remaining difference (approximately 2%) is due to rainwater present in skips which arrive at the facility. The recovery rate is estimated at 65.77%.

Table 5.1 Waste Received & Consigned 2010

EWC	Description	Waste In	Waste Out
15 01 01	Cardboard & Paper Packaging	7,270.62	6,148.60
15 01 02	Plastic Packaging	109.86	549.16
15 01 03	Wooden Packaging	1,009.88	1,665.63
15 01 04	Metallic Packaging	4.56	240.28
15 01 06	Mixed Packaging	528.48	
15 01 07	Glass Packaging	7.26	
16 01 03	Tyres		1.30
16 02 14	White Goods	1,194.06	
17 01 07	Mixed C&D	4.92	
17 09 04	Rubble	524.74	792.88
20 01 01	Paper & Cardboard	35.18	
20 01 02	Glass	10.14	
20 01 08	Commercial Food Waste	1,766.92	487.56
20 01 36	WEEE		1,065.37
20 01 38	Timber	510.66	
20 01 40	Metal	186.08	51.50
20 03 01	Mixed Municipal Waste	66,244.28	65,690.74
20 03 01	Mixed Dry Recyclables	11,437.07	11,729.36
	Total Received	90,844.71	
	Total Consigned		88,524.72
	Total Recovered		58,225.19
	Total Disposed		30,299.53
	Recovery Rate		65.77%

Table 5.2 Waste Received & Consigned 2009

EWC	Description	Waste In	Waste Out
13 05 07*	Oil waste		82.00
15 01 01	Cardboard & Paper Packaging	20,902.00	18,876.00
15 01 02	Plastic Packaging	78.00	
15 01 03	Wooden Packaging	2,178.00	1,554.00
15 01 07	Glass Packaging	11.00	
16 01 03	Tyres	2.00	7.00
16 02 14	White Goods	1,132.00	
16 10 02	Aqueous Liquid Waste		143.00
17 01 07	Mixed C&D	1,296.00	1,536.00
20 01 01	Paper & Cardboard	404.00	73.00
20 01 21*	Fluorescent Tubes		0.20
20 01 11	Textiles	3.00	
20 01 36	WEEE		1,135.00
20 01 40	Metal	435.00	912.00
20 03 01	Mixed Municipal Waste	63,063.00	61,223.00
20 03 01	Mixed Dry Recyclables	7,661	8,293.00
	Total Received	97,167.00	
	Total Consigned		97,011.20
	Total Recovered		76,149.20
	Total Disposed		20,862.00
	Recovery Rate		78.50%

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

The routine monitoring programme identified a number of incidents during the reporting period. Five of these related to exceedances of the ELV for surface water and a further two related to exceedances of the dust deposition limit. The Agency was notified of these exceedances in accordance with licence conditions. Apart from the exceedance of the ELVs there were no other incidents.

6.2 Register of Complaints

Panda maintains a register of the complaints received at the site. Three complaints were received during the reporting period (two in August and one in October) in relation to odour. These were immediately addressed by the Facility Management.

7. ENVIRONMENTAL DEVELOPMENT & CONTROL

7.1 Environmental Management Programme Report

Panda has taken on the Environmental Management System (EMS) developed for the facility. The schedule of Objectives and Targets developed by GES, including their status for 2010 (Table 7.1), as well as the proposed Objectives and Targets for 2011 (Table 7.2) are presented below. An index of procedures used at the facility is included in Appendix 1.

7.1.1 Site Management Structure

Management and Staffing structure: -

Name: Eamon Waters

Responsibility: Managing Director Panda

Experience: 20 years experience waste management experience

Name: David Jervis

Responsibility: Operations Manager Panda

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

Name: David Naughton

Responsibility: Environmental Manager Panda

Experience: 6 years experience waste management experience; has completed the FÁS waste management course.

Name: Brian Crinion

Responsibility: Health and Safety Manager Panda

Experience: 20 years experience waste management experience; has completed the FÁS waste management course.

7.1.2 *Staff Training*

It was not necessary to carry out staff training in 2010, training will be carried out as needed in 2011.

7.2 **Environmental Management Programme**

7.2.1 *Schedule of Objectives 2010*

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 – To achieve ongoing compliance with SW and FW ELVs

It had been proposed to install a ‘Downstream Defender’ downstream of the surface water discharge. Following an assessment of the system and the likely benefits, this was not deemed practical.

Objective 2 – Maintain Compliance on all GES sites

This objective related to the former operator of the site (GES).

Objective 3 – Reduce Energy and Water Consumption

An energy Audit was not carried out in 2010

Objective 4 – Support Environmental Awareness

Panda have a communications policy in place which is available to members of the public.

7.2.2 *Schedule of Objectives 2011*

A schedule of targets and objectives for 2011 has been set by the management of the facility. These objectives are outlined in Table 7.2.

7.3 **Communications Programme**

Panda has drawn up a Communications Programme, which details how members of the public are facilitated in accessing environmental information at the facility. Members of the public who wish to inspect these files may do so at any reasonable time by making an appointment

with the Operations Manager using the telephone number posted on the main facility entrance sign.

7.4 Report Financial Provision

GES has accrued over €3,000,000 in funds, to provide for any potential environmental liabilities. GES has adequate insurance cover for environmental liabilities to €6,350,000 for any one occurrence, which will apply to “sudden identifiable and unintended incidents”.

7.5 Nuisance Controls

A vermin control company, Cannon Hygiene, is contracted to carry out nuisance control 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 GES 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.

Table 7.1 Objectives and Targets for 2010

No	Activity	Target	Responsibility	Timescale
1	To achieve ongoing compliance with SW and FW ELV's	Install and commission Downstream Defender	PM	
2	Maintain Compliance on all GES sites	1. Receive no penalties for breach of relevant Environmental legislation 2. Continue to strive for Zero non compliances - all site inspections and assessments	PM/GW	Dec 2010
3	Reduce Energy and Water Consumption	Energy audit	PM/ML	Dec 2010
4	Support Environmental Awareness	Promote World Environmental Day Implement Environmental programs	PM	Dec 2010

Table 7.2 Schedule of Objective and Targets 2011


No	Objective	Target	Responsibility	Timescale
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	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	Q4 2011
3	Improve Dust Mitigation Measures	Install Dust curtains on the entrance/exit to the MRF building	Site Management	Q2 2011
4	Improve MRF Floor Layout	Assess and upgrade the MRF floor layout and rearrange in order to improve waste segregation practices.	Site Management	Q2 2011
5	EMS	Revise waste procedures and emergency response plans for the facility.	Site Management	Q3 2011

8. OTHER REPORTS

No other reports were requested by the Agency.

APPENDIX 1

Procedures List

DOCUMENT TYPE	Ballymount EPA Waste Licence W0039-02	
TITLE	Complete Procedures list	
Controlled Document		

Ref	Procedure	Issue No.	Date
EMS standard procedures			
SOP 001	Document & Record control	1	06/09/2010
SOP 002	Management Review	1	06/09/2010
SOP 004	Objectives & Targets, Environmental Management Programme	1	06/09/2010
SOP 005	Environmental Legal & Regulatory Requirements	1	06/09/2010
SOP 007	Environmental Complaints	1	06/09/2010
SOP 008	Non-Conformance & Corrective & Preventive action	1	06/09/2010
Operating Procedures			
SOP 014	Facility Inspection	1	06/09/2010
SOP 018	Unacceptable Waste	1	06/09/2010
SOP 019	Nuisance Management	1	06/09/2010

DOCUMENT NUMBER	SOP List	ISSUE DATE	06/09/10	REVISION NUMBER		PAGE 1 of 1	ISSUED BY	S B	AUTHORISED BY	S B
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APPENDIX 2

European Pollutant Release and Transfer Register



Environmental Protection Agency

| PRTR# : W0039 | Facility Name : Greenstar Environmental Services (Ireland) Limited | Filename : W0039_2010.xls | Return Year : 2010 |

[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.11

REFERENCE YEAR	2010
-----------------------	------

1. FACILITY IDENTIFICATION

Parent Company Name	Greenstar Environmental Services Limited
Facility Name	Greenstar Environmental Services (Ireland) Limited
PRTR Identification Number	W0039
Licence Number	W0039-02

Waste or IPPC Classes of Activity

No.	class_name
3.12	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.11	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
4.13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.

Address 1	Ballymount Cross
Address 2	Tallaght
Address 3	Dublin 24
Address 4	
Country	Ireland
Coordinates of Location	-6.35528 53.3121
River Basin District	IEEA
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Garrett Walsh (W0039)
AER Returns Contact Email Address	garrett.walsh@greenstar.ie
AER Returns Contact Position	Environmental Officer
AER Returns Contact Telephone Number	051 333944
AER Returns Contact Mobile Phone Number	086 1705034
AER Returns Contact Fax Number	051 333945
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	
Web Address	

2. PRTR 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)

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 ?	

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0039 | Facility Name : Greenstar Environmental Services (Ireland) Limited | Filename : W0039_2010.xls | Return Year : 2010 |

01/04/2011 12:02

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		RELEASERS TO AIR			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	METHOD		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		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

POLLUTANT		RELEASERS TO AIR			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	METHOD		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		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)

POLLUTANT		RELEASERS TO AIR			Please enter all quantities in this section in KGs			
Pollutant No.	Name	M/C/E	METHOD		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		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

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 Environmental Services (Ireland) Limited

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

Total estimated methane generation (as per site model)
Methane flared
Methane utilised in engine/s
Net methane emission (as reported in Section A above)

T (Total) kg/Year	M/C/E	Method Used		Facility Total Capacity m3 per hour
		Method Code	Designation or Description	
0.0				N/A
0.0				0.0 (Total Flaring Capacity)
0.0				0.0 (Total Utilising Capacity)
0.0				N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR# : W0039 | Facility Name : Greenstar Environmental Services (Ireland) Limited | Filename : W0039_2010.xls | Return Year : 2010 |

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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 t

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		M/C/E	Method Used		QUANTITY			
No. Annex II	Name		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		M/C/E	Method Used		QUANTITY			
No. Annex II	Name		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		M/C/E	Method Used		QUANTITY			
Pollutant No.	Name		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# : W0039 | Facility Name : Greenstar Environmental Services (Ireland) Limited | Filename : W0

01/04/2011 12:03

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				
303	BOD	C	PER	Calculated based on annual flow rate. Analysis is ISO accredited	685.0286	685.0286	0.0	0.0
306	COD	C	PER	Calculated based on annual flow rate. Analysis is ISO accredited	1315.749	1315.749	0.0	0.0
240	Suspended Solids	C	PER	Calculated based on annual flow rate. Analysis is ISO accredited	819.2571	819.2571	0.0	0.0
314	Fats, Oils and Greases	C	PER	Calculated based on annual flow rate. Analysis is ISO accredited	47.52	47.52	0.0	0.0
308	Detergents (as MBAS)	C	PER	Calculated based on annual flow rate. Analysis is ISO accredited	0.8928	0.8928	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# : W0039 | Facility Name : Greenstar Environmental Services (Ireland) Limited | Filename : W0039_2010.xls | Return Year : 2010 |

01/04/2011 12:03

SECTION A : PRTR POLLUTANTS

POLLUTANT		RELEASERS TO LAND			Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
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	0.0

* 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)

POLLUTANT		RELEASERS TO LAND			Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
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# : W0039 | Facility Name : Greenstar Environmental Services (Ireland) Limited | Filename : W0039_2010.xls | Return Year : 2010 |

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Please enter all quantities on this sheet in Tonnes

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Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste : Name and Licence/Permit No of Recoverer/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste : Address of Recoverer/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)
						M/C/E	Method Used					
Within the Country	15 01 01	No	1153.3	paper and cardboard packaging	R13	M	Weighed	Offsite in Ireland	IPR,WPR 021/12	Ballymount Road,Walkinstown,Dublin 12,,Ireland	Rosemount Business Park,Ballycoolin	
Within the Country	15 01 01	No	1479.38	paper and cardboard packaging	R13	M	Weighed	Offsite in Ireland	Bailey Waste Recycling,WFP-FG-0008-02-01	Road,Blanchardstown,Dublin 15,Ireland		
To Other Countries	15 01 01	No	2184.32	paper and cardboard packaging	R3	M	Weighed	Abroad,China		
To Other Countries	15 01 01	No	26.52	paper and cardboard packaging	R3	M	Weighed	Abroad	Parry & Evans,NOW/268322	Severn Farm Industrial Estate,Welshpool,Powys,SY 21 7DF,United Kingdom		
To Other Countries	15 01 01	No	1305.08	paper and cardboard packaging	R3	M	Weighed	Abroad,United Kingdom		
Within the Country	15 01 02	No	447.5	plastic packaging	R13	M	Weighed	Offsite in Ireland	IPR,WPR 021/12	Ballymount Road,Walkinstown,Dublin 12,,Ireland		
To Other Countries	15 01 02	No	101.66	plastic packaging	R3	M	Weighed	Abroad	Greentar Environmental Services,LN-10-18-T	121 Camlough Road,Bessbrook,Newry ,Co. Down,United Kingdom		
Within the Country	15 01 03	No	827.35	wooden packaging	R13	M	Weighed	Offsite in Ireland	Panda Waste,W0140-02	Beauparc,Navan,Co. Meath,,Ireland		
Within the Country	15 01 03	No	838.28	wooden packaging	R3	M	Weighed	Offsite in Ireland	Conroy Recycling Company,WP-152-2006	Sonna,Mullingar,Co. Westmeath,,Ireland		
Within the Country	15 01 04	No	240.28	metallic packaging	R4	M	Weighed	Offsite in Ireland	Multi Metals,ESS/15/8/12	Blessington,Co. Wicklow,....,Ireland		
Within the Country	16 01 03	No	1.3	end-of-life tyres	R5	M	Weighed	Offsite in Ireland	Crumb Rubber,WP 2007/01	Louth,,Ireland		
Within the Country	17 09 04	No	451.42	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R5	M	Weighed	Offsite in Ireland	Marrakesh Limited,W0048-01	Kilmurry South,Bray,Co. Wicklow,,Ireland		
Within the Country	17 09 04	No	341.46	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R13	M	Weighed	Offsite in Ireland	Panda Waste,W0140-02	Beauparc,Navan,Co. Meath,,Ireland		
Within the Country	19 08 05	No	102.34	sludges from treatment of urban waste	D13	M	Weighed	Offsite in Ireland	Panda Waste,W0140-02	Beauparc,Navan,Co. Meath,,Ireland		
Within the Country	20 01 08	No	269.74	water	R3	M	Weighed	Offsite in Ireland	Panda Waste,W0140-02	Littleton,Co. Meath,,Ireland		
Within the Country	20 01 08	No	269.74	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Acorn Recycling,W0249-01	Tipperary,....,Ireland		
Within the Country	20 01 08	No	139.1	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Galway City Council,W0013-01	Carrowbrownne,Headford Road,Galway ,Ireland		
Within the Country	20 01 08	No	25.78	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Thorntons,W0044-02	Killeen Road,Ballyfermot,Dublin 10,,Ireland		
Within the Country	20 01 08	No	52.94	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Panda Waste,W0140-02	Beauparc,Navan,Co. Meath,,Ireland		
Within the Country	20 01 36	No	0.18	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R5	M	Weighed	Offsite in Ireland	Irish Lamps Recycling,WFP 02/2000B	Woodstock Industrial Estate,Kilkenny Road,Athy,Co. Kildare,Ireland		
Within the Country	20 01 36	No	284.08	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R5	M	Weighed	Offsite in Ireland	TechRec Irl,W0233-01	Unit 51 Park West Industrial Estate,Nangor Road,Dublin 12,,Ireland		
To Other Countries	20 01 36	No	781.11	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R5	M	Weighed	Abroad	NWP Recycling,WML 03/24	Keady,Portadown,Co. Armagh,,United Kingdom		
Within the Country	20 01 40	No	43.76	metals	R4	M	Weighed	Offsite in Ireland	Multi Metals,ESS/15/8/12	Blessington,Co. Wicklow,....,Ireland		
Within the Country	20 01 40	No	7.74	metals	R4	M	Weighed	Offsite in Ireland	Panda Waste,W0140-02	Beauparc,Navan,Co. Meath,,Ireland		

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility	Haz Waste : Address of Next Destination Facility	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)
						M/C/E	Method Used		Non	Non Haz Waste: Address of Recover/Disposer		
Within the Country	20 03 01	No	34636.93	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Panda Waste,W0140-02	Beauparc,Navan,Co. Meath,,Ireland		
Within the Country	20 03 01	No	5325.44	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Greenstar Holdings Limited,W0165-02	Ballynagran,Coolbeg and Kicandra,Co. Wicklow,,Ireland		
Within the Country	20 03 01	No	324.02	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Greenstar Holdings Limited,W0146-01	Knockharley,Kentstown,Co. Meath,,Ireland		
Within the Country	20 03 01	No	978.92	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Louth County Council,W0060-02	Landfill,Dunleer,Co. Louth,,Ireland		
Within the Country	20 03 01	No	23568.81	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Bord Na Mona,W0201-01	Drehid Landfill,Naas,Co. Kildare,,Ireland		
Within the Country	20 03 01	No	856.62	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Greyhound Recycling & Recovery,W0205-01	Crag Avenue,Clondalkin Industrial Estate,Clondalkin ,Dublin 22,Ireland		
Within the Country	20 03 01	No	7642.03	mixed dry recyclables	R13	M	Weighed	Offsite in Ireland	Clearpoint Recycling,WP035-02	Ballylynch,Carrick-On-Suir,Co. Tipperary,,Ireland		
Within the Country	20 03 01	No	1760.02	mixed dry recyclables	R13	M	Weighed	Offsite in Ireland	Dillons Waste,WFP-KY-10-001	The Kerries,Tralee,Co. Kerry,,Ireland		
To Other Countries	20 03 01	No	89.72	mixed dry recyclables	R13	M	Weighed	Abroad	Re-Gen Waste Ltd,WML 22-25	Shepherds Drive,Cambane Industrial Estate,Newry,BT35 6JQ,United Kingdom		
Within the Country	20 03 01	No	32.44	mixed dry recyclables	R13	M	Weighed	Offsite in Ireland	WERS,WFP-G-09-0002-01	Weir Road Business Park,Tuam,Co. Galway,,Ireland		
Within the Country	20 03 01	No	1074.49	mixed dry recyclables	R5	M	Weighed	Offsite in Ireland	Panda Waste,W0140-02	Beauparc,Navan,Co. Meath,,Ireland		
Within the Country	20 03 01	No	1116.24	mixed dry recyclables	R13	M	Weighed	Offsite in Ireland	Greenstar Limited,W0053-03	Fassaroe,Bray,Co. Wicklow,,Ireland		
Within the Country	20 03 01	No	14.42	mixed dry recyclables	R13	M	Weighed	Offsite in Ireland	Greenstar Limited,W0183-01	Millennium Business Park,Grange,Ballycoolin,Dubl in 11,Ireland		

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