



ANNUAL ENVIRONMENTAL REPORT
GREENSTAR ENVIRONMENTAL SERVICES LIMITED
MATERIALS RECOVERY FACILITY
FORGE HILL
LICENCE NO. W0173-01
JANUARY 2011 – DECEMBER 2011

Prepared For: -

Greenstar Environmental Services Ltd.,
Unit 6,
Ballyogan Business Park,
Ballyogan Road,
Sandyford,
Dublin 18.

Prepared By: -

O' Callaghan Moran & Associates,
Granary House,
Rutland Street,
Cork.

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Report No	Date	Status	Prepared By	Reviewed By
0480205	20/03/2012	Draft	Michael Watson MA	Mr Barry Sexton MSc
0480205	29/03/2012	Final	Michael Watson MA	Mr Barry Sexton MSc

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1. INTRODUCTION

This is the 2011 Annual Environmental Report (AER) for the Greenstar Environmental Services Ltd. (GES), Materials Recovery Facility (MRF) at Forge Hill, Kinsale Road, Cork (W0173-01) and covers the reporting period January 2011 to December 2011.

For commercial reasons GES decided to temporarily suspend waste activities at the facility in August 2011. The Agency were notified of this decision on August 24th. GES stopped accepting waste on the 26th August 2011, but continued operating until September 16th during which all the waste that was on site at that time had been consigned from the facility. In September 2011, GES submitted a Residuals Management Plan and the proposed scope for an Independent Closure Audit to the Agency. Both the scope for the Independent Closure Audit and Residual Management Plan were approved in October 2011. A temporary closure audit report will be submitted to the Agency in Q2 2012.

The AER has been prepared in compliance with Condition 11.6 of the Licence. The content is based on Schedule F 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 Cognisance was also taken of the AER Draft Guidance Document issued in January 2012².

¹ EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency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

2. SITE DESCRIPTION

2.1 Site Location & Layout

The facility is accessed from Forge Hill Road, which forms the western site boundary. The eastern boundary is marked by the old Kinsale road, which is now a cul de sac. Further east is agricultural land. The site is bounded to the north and south by industrial units.

The site encompasses approximately 10,300 m². There are four buildings, two of which are adjoining steel portal frame (Units 1 and 2) with concrete wall where waste activities were carried out. There is an Office building in the south west of the site and a small building that houses power washing equipment in the north east corner. Units 1 and 2 occupy ca 1,250m² and 1.390 m² respectively. The Office occupies an area of 313m². There is an ESB substation near the western site boundary.

With the exception of a 1m verge gravelled area surrounding the Offices, the open areas are paved with either tarmacadam, or concrete. There is a weighbridge located to the south of Unit 1 and another weighbridge in the north western section of the yard. The open area (1,400m²) to the front of the Units 1 and 2 is paved with tarmacadam and is used as a car park. There is a 1,700m² concrete covered yard to the south and east of Unit 2, which extends to the eastern boundary fence and which is used to store empty skips and wheelie bins.

2.2 Waste Management Activities

The licence allows GES to accept and process 82,000 tonnes of waste per annum, comprising commercial/industrial non-hazardous waste, household waste collected by or on behalf of the local authority, source separated biodegradable waste for composting and construction and demolition wastes. When the facility was operational, all waste processing took place inside the waste transfer building.

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: -

- Household Waste (1,600 tonnes),
- Commercial Waste (70,000 tonnes),
- Industrial Waste (6,400 tonnes),

- Construction & Demolition (4,000 tonnes).

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

The licence allows a variation in the amount of each waste type accepted subject to the Agency's prior agreement of the Agency as long as the total maximum tonnage is not exceeded. In December 2009, the Agency approved the following changes to the waste inputs.

- Household Waste (25,000 tonnes),
- Commercial Waste (46,600 tonnes),
- Industrial Waste (6,400 tonnes),
- Construction & Demolition (4,000 tonnes).

The key processes carried out prior to the temporary closure of the facility included: -

- Segregation of recyclable materials (paper, cardboards, plastic, wood, metals, glass);
- Bulking up of Municipal Solid Waste;
- Segregation and bulking of C&D waste;
- Transfer of recovered and residual materials to appropriately licensed recycling,

Commercial and Industrial Waste

Both mixed and segregated commercial wastes were accepted. Commercial waste rich in recyclables (paper, cardboard, glass, metal and wood) was delivered by permitted third party hauliers and GES collection vehicles. Plastic, card and paper was baled and stored prior to transfer to a suitable permitted/licensed off-site recycling outlet. Biodegradable wastes suitable for composting was sent to an offsite composting facility. The remaining non-recyclable material was bulked and sent to appropriately licensed landfills.

C&D Waste

Waste loads included mixed construction and demolition wastes and soil and stone mainly delivered in skips of varying sizes. The majority of the incoming C&D material was recovered and sent off-site either for re-use or recycling. The non-recyclable material was transferred to a licensed landfill.

2.2.2 Plant List

A list of the plant used until closure, is given in Table 2.1. The plant provided 100% duty and 50% standby for waste processing.

Table 2.1 On-Site Machinery

No.	Plant	Model	Operational Capacity tpd	Standby Capacity tpd
1	18-tonne excavator	Cobelco	300	170

3. EMISSION MONITORING

The monitoring required by Schedule D of the licence includes surface water, wastewater, dust and noise monitoring. The monitoring locations are shown on Figure 3.1. The reports on the monitoring were submitted to the Agency in accordance with the reporting frequency specified in Schedule E of the licence. An overview of the results of the monitoring is presented in this Section.

3.1 Surface Water Monitoring

The run-off from the roofs and paved yards is directed to an underground balance tank, located in the north west of the site. The water flows from the tank through a Class 1 petrol/oil interceptor in the south west of the site, and is pumped to an unnamed stream to the west of the site. This stream joins the Tramore River, approximately 350m to the south of the site. There is a manually operated shut off valve that can be used to stop the discharge from the site in the event of an emergency.

Surface water monitoring was carried out quarterly accordance with Condition 8.1 and Schedule D of the licence at the final discharge point SW-1 as shown on Figure 3.1. The surface water system has an inspection point that allows the sampling and inspection of the final surface water discharge from the site.

The sampling and analysis was carried out in accordance with recognised quality assurance and control procedures. The range of analysis was biological oxygen demand (BOD), total suspended solids (TSS), pH, heavy metals, total petroleum hydrocarbons (TPH), mineral oils, fats, oils and greases and ammoniacal nitrogen. The results are presented in Table 3.1, which includes the trigger levels and Emission Limit Values (ELVs) set in the Licence.

The trigger levels and ELVs for BOD, TSS and mineral oils were not exceeded, with the exception of a slightly elevated TSS level in Q4 2011, when the facility was closed. It is likely that the slightly elevated TSS was possibly due to disturbance of sediment in the sample chamber when the sample was collected. GES informed the Agency of the slight exceedance.

Table 3.1 Surface Water Monitoring Results 2011 SW-1

Parameter	Units	Q1	Q2	Q3	Q4	Trigger Levels	Emission Limit
pH	pH units	7.6	7.6	7.5	8.03	N/A	N/A
BOD	mg/l	4	3	8	<1	25	N/A
Total Suspended Solids	mg/l	34	29	34	68	60	N/A
Ammoniacal Nitrogen	mg/l	1.732	0.481	0.770	0.20	N/A	N/A
Fats Oils & Greases	mg/l	<4	<4	<4	<0.01	N/A	N/A
TPH	mg/l	0.254	*	0.750	<0.01	N/A	N/A
Mineral Oils	mg/l	0.254	*	0.679	<0.01	N/A	5
Aluminium	mg/l	0.1376	0.1484	0.221	N/A	N/A	N/A
Arsenic	mg/l	0.001	0.0008	0.0022	N/A	N/A	N/A
Cadmium	mg/l	0.0001	0.001	<0.0001	N/A	N/A	N/A
Chromium	mg/l	<0.001	<0.001	0.0014	N/A	N/A	N/A
Iron	mg/l	1.662	1.277	1.471	N/A	N/A	N/A
Mercury	mg/l	<0.00002	<0.00002	<0.00002	N/A	N/A	N/A
Nickel	mg/l	0.0029	0.0024	0.0053	N/A	N/A	N/A
Copper	mg/l	0.004	0.003	0.009	N/A	N/A	N/A

* - Bottles damaged en route to laboratory therefore analysis was not possible

3.2 Wastewater Monitoring

Rainfall at the entrance to Unit 2 and some paved areas adjacent to the on site fuel tank and vehicle/bin wash area is collected and directed to the foul water drainage system. The discharge from the vehicle/bin wash area is also directed to the foul water drainage system. The wastewater passes through a petrol/oil interceptor before discharging to the municipal sewer. Flow is measured using a continuous flow meter.

The wastewater sample location (FW-1) is shown on Figure 3.1. It is downstream of the interceptor and the continuous flow meter. Monitoring was carried out in accordance with Technical Amendment A of the licence up until the facility closed in , after which wastewater was not generated.

The sampling and analysis was carried out in accordance with recognised quality assurance and control procedures. The range of analysis was BOD, Chemical Oxygen Demand (COD) TSS, pH, heavy metals, (TPH), mineral oils, fats, oils and greases, detergents, sulphate and volatile organic compounds (VOC). The results are presented in Table 3.2. The ELVs were not exceeded and the discharge was in compliance with the licence conditions.

Table 3.2 Wastewater Monitoring Results 2011 FW-1

Date	COD	Total Suspended Solids	Oils, Fats & Greases	BOD	Detergents	VOC	Sulphate	Total Petroleum Hydrocarbons	Mineral Oils	Total Nitrogen	Heavy Metals
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
ELVs	4,000	500	40	2,000	10	1	750	5	5	100	1
20/01/2011	34	18	-	-	-	-	-	-	-	-	-
27/01/2011	52	30	<4	<28	-	-	-	-	-	-	-
03/02/2011	69	<5	-	-	-	-	-	-	-	-	-
22/02/2011	212	34	<4	48	-	-	-	-	-	-	-
03/03/2011	225	58	<4	78	<0.21	0.089	31.6	0.58	0.416	8.3	-
14/03/2011	139	37	-	-	-	-	-	-	-	-	-
06/04/2011	185	18	<4	43	-	-	-	-	-	-	-
20/04/2011	293	12	-	-	-	-	-	-	-	-	-
13/05/2011	109	13	<4	6	-	-	-	-	-	-	-
25/05/2011	388	105	-	-	-	-	-	-	-	-	-
13/06/2011	157	41	<4	39	0.23	<0.01	53.1	-	-	-	-
24/06/2011	100	42	-	-	-	-	-	-	-	-	-
08/07/2011	362	77	<4	81	-	-	-	-	-	-	-
29/07/2011	126	101	-	-	-	-	-	-	-	-	-
03/08/2011	195	75	<4	56	-	-	-	-	-	-	-
11/09/2011	68	11	<4	9	<0.21	<0.01	14.7	0.188	0.159	10.3	0.288
19/09/2011	147	261	-	-	-	-	-	-	-	-	-

3.3 Groundwater Monitoring

Groundwater sampling was undertaken bi-annually at one on site groundwater well (GW-1), which is in the east of the site. The location of the well is shown on Figure 3.1 and the results summarised in Table 3.3.

The sampling and analysis was carried out in accordance with recognised quality assurance and control procedures. The range of analysis was ammoniacal nitrogen, heavy metals and TPH. There are no trigger limits set in the Licence and the results are compared to the Interim Guideline Values (IGV) on groundwater quality published by the Agency. The Table also includes the Groundwater Regulations Threshold Value (GTV), which were introduced in 2010 (S.I. 9 of 2010).

The IGV represent typical background or unpolluted conditions; however levels higher than the IGV may occur naturally depending on the local geological and hydrogeological conditions. While the GTV are more appropriate for large scale abstraction wells used for potable supply, they can be used to assess the significance of contamination where present in non potable groundwater supplies. Because GTVs have not been established for all of the parameters monitored, the relevant IGV was used for comparative purposes.

The groundwater quality is good with all results below their respective IGV or GTV, where established.

Table 3.3 Groundwater Monitoring Results 2011

Parameter	Units	April 2011	December 2011	GTV	IGV
Odour	TON	1	-	-	-
Arsenic	mg/l	<0.001	<0.0025	0.0075	0.01
Bismuth	mg/l	<0.01	0.029	-	-
Thallium	mg/l	<0.04	<0.0005	-	-
Tellurium	mg/l	<0.02	<0.0015	-	-
Cadmium	mg/l	0.001	<0.007	0.00375	0.005
Chromium	mg/l	<0.001	<0.001	0.0375	0.03
Copper	mg/l	0.002	0.004	1.5	0.03
Indium	mg/l	<0.02	<0.005	-	-
Mercury	mg/l	<0.0005	<0.003	0.00075	0.001
Nickel	mg/l	0.005	<0.003	-	0.02
Lead	mg/l	<0.001	0.033	0.01875	0.01
Selenium	mg/l	<0.001	0.08	-	-
Antimony	mg/l	<0.001	<0.01	-	-
Tin	mg/l	<0.001		-	-
Zinc	mg/l	0.006		-	0.1
Heavy Metals (Total)	mg/l	0.014		-	-
Ammoniacal Nitrogen	mg/l	0.16		0.175	0.12
TPH	mg/l	<0.001		-	0.01

3.4 Noise Monitoring

The annual noise survey was carried out in July 2011. The full monitoring report was submitted to the Agency on the 14th September 2011. The monitoring locations include four boundary locations (B1 – B4) and one noise sensitive location (NSL1). The survey was conducted when the site was fully operational and confirmed that noise emissions complied with the licence conditions and that the facility was 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 68 dB, due chiefly to local road traffic which was dominant. Emissions from the facility were not audible at this location and did not contribute to the local noise environment. Therefore noise emissions from the facility were likely to have been significantly lower than the 55 dB limit set in the Licence at NSL1.

Table 3.4 Noise Monitoring Results 2011

Station	Time	LAeq 30 min dB	LAF10 30 min dB	LAF90 30 min dB	Specific level* dB	Noise audible
B1	1342- 1412	59	52	49	59	Baler continuously audible at low level from within building, with energy in 315 Hz band. Excavator with grab also continuously audible within building, albeit slightly audible only, with faint hum in 80 Hz band. Sporadic truck movements though weighbridge and through local yard area dominant when present. Truck idling on weighbridge 1350-1402 audible at low level. Forge Hill road traffic almost continuously audible and co-dominant with baler outside of onsite truck movements. Bird song/calls. Sporadic aircraft movements, incl. light aircraft, significant when present.
B2	1526- 1556	63	66	56	58	Forge Hill road traffic almost continuously dominant until 1549. During infrequent lulls, loading of container trailer with baled waste audible at low level at W facade of main building. Sporadic truck movements through gates, weighbridges (trucks dominant when idling on exit weighbridge, continuously present from 1549) and W yard audible. No other noise audible above road traffic apart from aircraft.
B3	1450- 1523 incl. pause	62	65	55	58-60	Excavator with grab (with energy in 80 Hz band) and idling truck (with tone in 31.5 Hz band, truck departed 1519) in nearest part of building continuously slightly audible through door around corner from B3. No other site emissions audible apart from sporadic truck movements along N boundary (dominant when present) and in N part of front yard. Forge Hill road traffic noise continuously dominant. Sporadic aircraft intrusive. Frequent noise audible from commercial park outside boundary, incl. vehicle movements. Measurement paused 1509-1512 to allow articulated truck access.
B4	1416- 1446	59	61	53	56	Sporadic truck and forklift movements dominant when present on E yard. Excavator with grab continuously audible at low level in building through open doors on E facade, with tone in 80 Hz band. However, road traffic to NW, SE and S continuously audible and dominant. Local birdsong in vicinity of B4 significant. Sporadic aircraft intrusive when present.
NS1	1605- 1635	72	76	54	<54	No facility emissions audible. Forge Hill traffic continuously audible on approaches, and dominant. No other noise audible apart from local birdsong, local dog barking and aircraft.

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

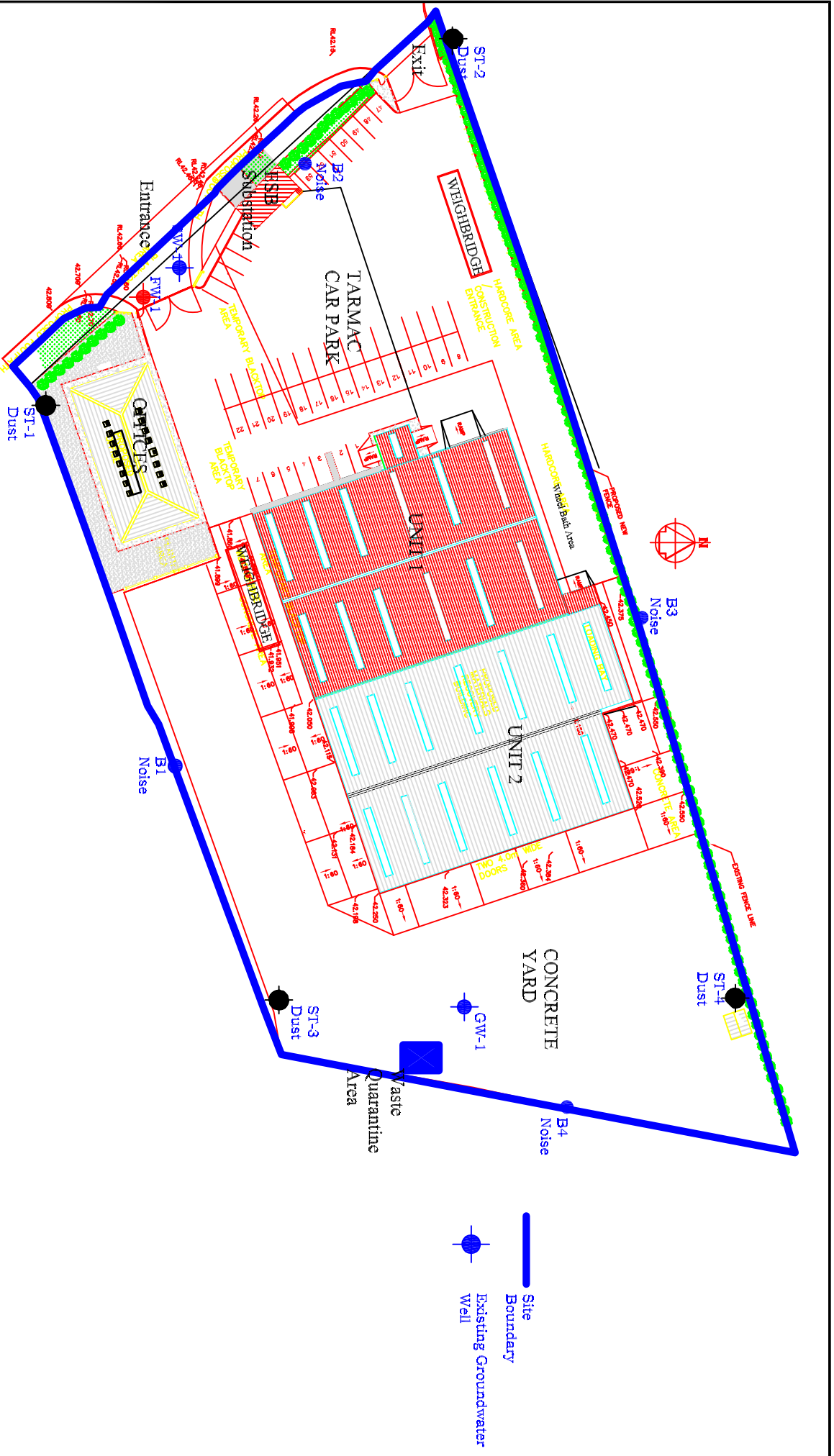
3.5 Dust Monitoring

Dust monitoring was carried out on four occasions at four on-site locations (ST-1, ST-2, ST-3 and ST-4) in February, June, April and December 2011. The results of the monitoring are presented in Table 3.5.

Table 3.4 Dust Monitoring Results 2011

	Units	Feb 2011	Jun 2011	Aug 2011	Dec 2011	Deposition Limit Value
ST-1	mg/m ² /day	33.7	95.2	304.1	74.1	350
ST-2	mg/m ² /day	15.1	210.3	269.5	*	350
ST-3	mg/m ² /day	67.7	137.9	344.2	112.5	350
ST-4	mg/m ² /day	55.4	226	469.9	108.5	350

The dust emission limit (350 mg/m²/day) was exceeded at one monitoring location, ST-4, which is at the north eastern site boundary. The exceedance was reported to the Agency on the 14th October 2011. There are no sensitive receptors in the vicinity of ST-4 and it is not considered that there was any significant impairment of the environment beyond the facility boundary associated with elevated dust levels.



O'Callaghan Moran & Associates.
 Granary House, Rutland Street,
 Cork, Ireland.
 Tel. (021) 4321521 Fax. (021) 4321522
 email : info@ocollaghnmoran.com

CLIENT

GES Forge Hill
 W0173-01

TITLE

Monitoring Locations

FIGURE No.

3.1

SCALE

NTS

REV.

A

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4. SITE DEVELOPMENT WORKS

4.1 Specified Engineering Works

There were no Specified Engineering Works carried out in 2011. As the facility has temporarily closed, there are no engineering works planned for 2012.

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 in 2011

Resources	Quantities
Diesel (green)	25,000 litres
Electricity	90,000 Units
Hydraulic Oil	600 litres
Engine Oil	50 litres
Heating Oil	25,000 litres
Mains Water	590,000 litres
AdBlu	2,500 litres
Odour Neutraliser	400 litres

4.3 Bund Integrity Testing

Condition 3.12.5 of the licence requires that tank and bund testing be carried out at least once every three years. The bunds were tested in September 2010 and passed fit for purpose.

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 18,176 tonnes. The total waste consigned was 18,913.14 tonnes. The recording system shows 737.14 more tonnes consigned than accepted during the reporting period due to waste present onsite at the end of 2010 and decommissioning works carried out in September 2011. All waste was removed from the facility in 2011 and the facility is now closed.

Table 5.1 Waste Received & Consigned 2011

EWC	Description	Waste In	Waste Out
01 03 08	Dust	27	
15 01 01	Cardboard & Paper Packaging	708	4,825
15 01 02	Plastic Packaging	38	394
15 01 03	Wooden Packaging	1	2
15 01 06	Mixed Packaging	7,041	4,564
15 01 07	Glass Packaging	6	
17 04 11	Cables		1
17 08 02	Plasterboard	2	
17 09 04	Mixed C&D	832	1,244
19 12 07	Wood		20
19 12 12	Mixed Municipal Waste		5,804
20 01 01	Cardboard & Paper	1,526	534
20 01 02	Glass	4	
20 01 08	Canteen Kitchen Waste	1,204	1,139
20 01 35	WEEE		6
20 01 38	Timber	114	239.14
20 01 39	Plastics	91	
20 01 40	Metal	31	94
20 02 01	Biodegradable Greenwaste	1	
20 03 01	Mixed Municipal Waste	3,537	
20 03 01	Mixed Dry Recyclables	1,791	
20 03 07	Bulky Waste	1,222	47
	Total Received	18,176	
	Total Consigned		18,913

Table 5.2 Waste Received & Consigned 2010

EWC	Description	Waste In	Waste Out
07 05 12	WWTP sludge from Pharmaceutical Plant	12.46	
10 01 01	Boiler Ash	11.12	
15 01 01	Cardboard & Paper Packaging	2,915.11	6,744.68
15 01 02	Plastic Packaging	190.36	505.15
15 01 03	Wooden Packaging		17.34
15 01 06	Mixed Packaging	11,436.58	92.14
15 01 07	Glass Packaging	64.54	
16 02 14	WEEE	0.84	
17 01 07	Mixed C&D	554.91	640.60
17 05 04	Soil & Stone from C&D Waste	45.58	1,230.49
17 08 02	Plasterboard		2.74
19 12 12	Mixed Municipal Waste		20,823.38
20 01 01	Cardboard & Paper	724.54	720.02
20 01 08	Canteen Kitchen Waste	867.47	737.82
20 01 21*	Fluorescent tubes		0.20
20 01 36	WEEE		27.66
20 01 38	Timber	192.45	471.30
20 01 40	Metal	7.18	195.12
20 03 01	Mixed Municipal Waste	11,042.91	12,894.62
20 03 01	Mixed Dry Recyclables	6,326.09	
20 03 03	Road Sweepings	511.44	
20 03 07	Bulky Waste	9,452.16	
	Total Received	44,355.74	
	Total Consigned		45,103.26
	Total Recovered		24,340.66
	Total Disposed		20,762.60
	Recovery Rate		53.97%

Table 5.3 Waste Received & Consigned

	2010	2009	2008
Total Received	44,355.74	35,001	28,001
Total Consigned	45,103.26	34,737	37,179
Total Recovered	24,340.66	22,362	22,079
Total Disposed	20,762.60	12,375	15,100
Recovery Rate	53.97%	64.37%	59.39%

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

The routine monitoring programme identified two incidents during the reporting period. One related to an exceedance of the dust limit at one location and the second to a slightly elevated TSS level in the surface water discharge. The Agency was notified of both exceedances. It is not considered that either incident caused a significant environmental emission offsite. There were no other incidents in the reporting period

6.2 Register of Complaints

GES maintains a register of complaints received in accordance with Condition 10.4 of the waste licence. No complaints were received during the reporting period.

7. ENVIRONMENTAL DEVELOPMENT & CONTROL

7.1 Environmental Management Programme Report

GES implement 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 environmental aspects and impacts.

The IMS has been developed for the achievement of continual improvement taking into the requirements of the Waste Licence Conditions. GES has prepared and effectively implemented documented procedures and instructions in accordance with the requirements of both the OHSAS 18001:2007 and ISO 14001:2004.

The schedule of Objectives and Targets, including their status for 2011 are shown in Table 7.1. As the facility has temporarily closed, no objectives and targets were set for 2012.

7.1.1 Site Management Structure - 2011

Management and Staffing structure: -

Name: Gavin Douglas

Responsibility: Depot Manager

Experience: 13 years experience waste management experience; has completed the FÁS waste management course.

Name: Finbarr Whelan

Responsibility: Yard Supervisor

Experience: 12 years experience waste management experience; has completed the FÁS waste management course.

7.1.2 Staff Training

Staff training was carried out in 2011 in relation to the newly issued Integrated Management System procedures.

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 –Energy & Resource Consumption

The energy and resource consumption were similar to previous years until the closure of the facility.

Objective 2 – Review and Assess the effectiveness of Nuisance Control Procedures

Nuisance control measures worked effectively in 2011. There were no issues with nuisances from the facility prior to closure.

Objective 3 – Pollution Prevention

All procedures were reviewed as part of the Integrated Management System. The facility did not have any significant incidents during 2011.

Objective 4 – Awareness & Training

As part of the IMS training is carried out in accordance with the training matrix for the facility. Environmental training was not required in 2011

7.3 Communications Programme

GES are committed to setting the standard in waste management and ensuring environmental compliance in all operations. In addition, GES's Environmental, Health & Safety Policy makes a specific commitment to ensure that this policy and environmental records are available to the public and interested parties.

To this end GES has drawn up a Communications Programme, which details how members of the public are facilitated in accessing and viewing 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 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

GES contracted a vermin control company during the reporting period, Prevent a Pest Ltd, to carry out nuisance control at the facility. Prevent a Pest carried out site inspections twelve times per annum to maintain internal and external bait boxes. Spraying was carried out for fly control four times per annum when the facility was operational.

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 1.

7.7 Wastewater Volumes

In 2011, approximately 2,500 m³ of waste water was generated at the facility. All of this was discharged to the municipal foul water sewer.

Table 7.1 Objectives and Targets for 2011

No	Activity	Target	Responsibility	Timescale
1	Energy & Resource Consumption	Summarise energy and resource usage on a quarterly basis with a view to reducing consumption	Site Management	Q4 2011
		Carry out an energy audit of the facility		
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.	Site Management	Q4 2011
3	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
4	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.	Site Management	Q4 2011

8. OTHER REPORTS

GES submitted a Residuals Management Plan and scope for Independent Closure Audit and on the 29th September 2011.

APPENDIX 1

European Pollutant Release and Transfer Register



[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.13

REFERENCE YEAR	2011
-----------------------	------

1. FACILITY IDENTIFICATION

Parent Company Name	Greenstar Environmental Services Limited
Facility Name	Greenstar Environmental Services Limited
PRTR Identification Number	W0173
Licence Number	W0173-01

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.
4.12	Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.
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	Forge Hill
Address 2	Kinsale Road
Address 3	Cork
Address 4	
Country	Ireland
Coordinates of Location	-8.48191 51.8703
River Basin District	IESW
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	
AER Returns Contact Telephone Number	012947949
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
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. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

(FRS# W0173) Facility Name: Clearstar Environmental Services Limited (FName: w0173_2015-01-Near Year -2011)

26/03/2012 17:03

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	Licence / Name and Location of the Receiving Facility (Name and Address of the Receiving Facility)	Name and Licence / Permit No. and Address of the Receiving Facility (Name and Address of the Receiving Facility)	Actual Address of Final Destination (i.e. Final Recovery / Disposal Site) (PROMO/OLU WASTE ONLY)
						MFC	Method Used				
To Other Countries	19 01 01	No	2277.0	paper and cardboard packaging	R3	M	Washed	Abroad	Cell Mark, TFS Broker IRE 0180 11	.....Ireland	
Within the Country	15 01 01	No	2.0	paper and cardboard packaging	R3	M	Washed	Offsite in Ireland	Clytown Enterprises,WFP, 10-0007-02	Sarsfieldcourt Ind Est.,Cork, Ireland	
To Other Countries	15 01 01	No	304.0	paper and cardboard packaging	R3	M	Washed	Abroad	Reuse Paper Recycling TFS Broker IRE 0205 11	.....Ireland	
To Other Countries	15 01 01	No	446.0	paper and cardboard packaging	R3	M	Washed	Abroad	Parry & Evans, TFS Broker 0210 11	.....Ireland	
To Other Countries	15 01 01	No	875.0	paper and cardboard packaging	R3	M	Washed	Abroad	Minin Environmental,TFS Broker IRE 02 11	.....Ireland	
To Other Countries	15 01 01	No	353.0	paper and cardboard packaging	R3	M	Washed	Abroad	MULLEN TFS Broker IRE 0302 11	.....Ireland	
To Other Countries	15 01 01	No	468.0	paper and cardboard packaging	R3	M	Washed	Abroad	Boat Recycling TFS Broker IRE 0202 11	.....Ireland	
Within the Country	15 01 02	No	50.0	plastic packaging	R3	M	Washed	Offsite in Ireland	Ason Exide,CK (S) 05208	Little Island,.....Cork,Ireland	
To Other Countries	15 01 02	No	40.0	plastic packaging	R3	M	Washed	Abroad	Reuse Paper Recycling TFS Broker IRE 0205 11	.....Ireland	
Within the Country	15 01 02	No	145.0	plastic packaging	R3	M	Washed	Offsite in Ireland	Leitner Environmental,WFP LH 08 0008 01	Dundalk,.....Co Louth,Ireland	
To Other Countries	15 01 02	No	91.0	plastic packaging	R3	M	Washed	Abroad	Choice Waste Management,TFS Broker IREAG0201 11	.....Ireland	
To Other Countries	15 01 02	No	37.0	plastic packaging	R3	M	Washed	Abroad	Boat Recycling TFS Broker IRE 0202 11	.....Ireland	
Within the Country	15 01 02	No	11.0	plastic packaging	R3	M	Washed	Offsite in Ireland	Clytown Enterprises,WFP, 10-0007-02	Sarsfieldcourt Ind Est.,Cork, Ireland	
Within the Country	15 01 02	No	20.0	plastic packaging	R3	M	Washed	Offsite in Ireland	Bailey Waste Recycling,WPT FG 08 0002 01	Rosemount Business Park,.....Dublin,Ireland	
Within the Country	15 01 03	No	2.0	wooden packaging	R3	M	Washed	Offsite in Ireland	Clytown Enterprises,WFP, 10-0007-02	Sarsfieldcourt Ind Est.,Cork, Ireland	
Within the Country	15 01 06	No	4534.0	mixed packaging cables other than those mentioned in 17 04	R3	M	Washed	Offsite in Ireland	Kilamey Waste Depot,W0217 01	Kilamey,.....Co Kerry,Ireland	
Within the Country	17 04 11	No	1.0	10	R3	M	Washed	Offsite in Ireland	0013 01	Ringsend,.....Dublin 4,Ireland	
Within the Country	15 01 06	No	30.0	mixed packaging mixed construction and demolition wastes other than those mentioned in 17 08 01, 17 09 02 and 17 09 03	R3	M	Washed	Offsite in Ireland	Clytown Enterprises,WFP, 10-0007-02	Sarsfieldcourt Ind Est.,Cork, Ireland	
Within the Country	17 09 04	No	1244.0	wood other than that mentioned in 19 12 06	R3	M	Washed	Offsite in Ireland	Malco Contracts,dl/N2715 CTO Environmental,Wp 04 09	Monabey,.....Co Cork,Ireland	
Within the Country	19 12 07	No	20.0	wood other than that mentioned in 19 12 06	R3	M	Washed	Offsite in Ireland	0018 02	Rosellen,.....Co Cork,Ireland	
Within the Country	19 12 12	No	132.0	other wastes (including measures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Washed	Offsite in Ireland	KTK Landfill,W0081 04	Kilculin,.....Co Kildare,Ireland	
Within the Country	19 12 12	No	22.0	other wastes (including measures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Washed	Offsite in Ireland	Inagh Landfill,W0109 01	Inagh Landfill,.....Co Carlow,Ireland	
Within the Country	19 12 12	No	24.0	other wastes (including measures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Washed	Offsite in Ireland	Greentar MF,W0163 01	Ballycorkin,.....Dublin,Ireland	
Within the Country	19 12 12	No	1648.0	other wastes (including measures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Washed	Offsite in Ireland	Greentar Cork,W0136 02	Sarsfieldcourt,.....Cork,Ireland	
Within the Country	19 12 12	No	1136.0	other wastes (including measures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Washed	Offsite in Ireland	Connaught Regional Landfill,w0176 01	Kilconnell,.....Co Galway,Ireland	
Within the Country	19 12 12	No	286.0	other wastes (including measures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Washed	Offsite in Ireland	Greentar Knockharney Landfill,W0146 02	Knockharney,.....Co Meath,Ireland	
Within the Country	19 12 12	No	2122.0	other wastes (including measures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Washed	Offsite in Ireland	KTK Landfill,W0081 04	Kilculin,.....Co Kildare,Ireland	
Within the Country	19 12 12	No	434.0	other wastes (including measures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Washed	Offsite in Ireland	Inagh Landfill,W0109 01	Inagh Landfill,.....Co Carlow,Ireland	
To Other Countries	20 01 01	No	25.0	paper and cardboard	R3	M	Washed	Abroad	Boat Recycling TFS Broker IRE 0202 11	.....Ireland	
To Other Countries	20 01 01	No	377.0	paper and cardboard	R3	M	Washed	Abroad	Minin Environmental,TFS Broker IRE 02 11	.....Ireland	
To Other Countries	20 01 01	No	132.0	paper and cardboard	R3	M	Washed	Abroad	Agnes TFS BROKER IREAG 11711	.....Ireland	
Within the Country	20 01 08	No	14.0	biodegradable kitchen and canteen waste	R3	M	Washed	Offsite in Ireland	Greentar Cork,W0136 02	Sarsfieldcourt,.....Cork,Ireland	
Within the Country	20 01 08	No	411.0	biodegradable kitchen and canteen waste	R3	M	Washed	Offsite in Ireland	Waterford Proteins,P0404 02	Christiansburg,.....Waterford,Ireland	
Within the Country	20 01 08	No	714.0	biodegradable kitchen and canteen waste discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous	R3	M	Washed	Offsite in Ireland	Acorn Recycling,W0489 01	Tipsney,.....Co Tipperary,Ireland	
Within the Country	20 01 35	Yes	6.0	components	R4	M	Washed	Offsite in Ireland	RNK Metals,W0119 03	Tullamore,.....Co Offaly,Ireland	
Within the Country	20 01 38	No	1.14	wood other than that mentioned in 20 01 37	R3	M	Washed	Offsite in Ireland	Greentar Cork,W0136 02	Sarsfieldcourt,.....Cork,Ireland	
Within the Country	20 01 38	No	238.0	wood other than that mentioned in 20 01 37	R3	M	Washed	Offsite in Ireland	CTO Environmental,Wp 04 09 0018 02	Rosellen,.....Co Cork,Ireland	
Within the Country	20 01 40	No	13.0	metals	R4	M	Washed	Offsite in Ireland	Poussard Diamonds,CK (S) 47907	Fores Hill,.....Cork,Ireland	
Within the Country	20 01 40	No	81.0	metals	R4	M	Washed	Offsite in Ireland	Davis Recycling,WFP DL 09 0015 01	Ringsend,.....Dublin 4,Ireland	
Within the Country	20 03 07	No	21.0	bulky waste	R3	M	Washed	Offsite in Ireland	Greentar Cork,W0136 02	Sarsfieldcourt,.....Cork,Ireland	
Within the Country	20 03 07	No	26.0	bulky waste	D1	M	Washed	Offsite in Ireland	KTK Landfill,W0081 04	Kilculin,.....Co Kildare,Ireland	

*Total quantity should be 65.00 tonnes (based on the assumption of 100% recovery from the table below)

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0173 | Facility Name : Greenstar Environmental Services Limited | Filename : w0173_2011.xls | Return Year : 2011 |

29/03/2012 17:00

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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	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		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	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		METHOD			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

* 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 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](#)

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO WATERS	
POLLUTANT	
No. Annex II	Name

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS	
POLLUTANT	
No. Annex II	Name

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

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

RELEASES TO WATERS	
POLLUTANT	
Pollutant No.	Name

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

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT

Please enter all quantities in this section in KGs				
M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
	Method Code	Designation or Description		
			0.0	0.0

) then click the delete button

Please enter all quantities in this section in KGs				
M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
	Method Code	Designation or Description		
			0.0	0.0

) then click the delete button

Please enter all quantities in this section in KGs				
M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
	Method Code	Designation or Description		
			0.0	0.0

) then click the delete button

be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

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 Code	Designation or Description	FW1 Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
12	Total nitrogen	M	ALT	Flow and Lab analysis	23.87	23.87	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 Code	Designation or Description	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
303	BOD	M	ALT	Flow and Lab analysis	102.68	0.0	0.0	0.0	0.0	102.68	0.0	0.0
306	COD	M	ALT	Flow and Lab analysis	431.0	0.0	0.0	0.0	0.0	431.0	0.0	0.0
308	Detergents (as MBAS)	M	ALT	Flow and Lab analysis	0.59	0.0	0.0	0.0	0.0	0.59	0.0	0.0
314	Fats, Oils and Greases	M	ALT	Flow and Lab analysis	10.26	0.0	0.0	0.0	0.0	10.26	0.0	0.0
366	Hydrocarbons	M	ALT	Flow and Lab analysis	1.001	0.0	0.0	0.0	0.0	1.001	0.0	0.0
324	Mineral oils	M	ALT	Flow and Lab analysis	0.315	0.0	0.0	0.0	0.0	0.315	0.0	0.0
343	Sulphate	M	ALT	Flow and Lab analysis	84.7	0.0	0.0	0.0	0.0	84.7	0.0	0.0
240	Suspended Solids	M	ALT	Flow and Lab analysis	138.0	0.0	0.0	0.0	0.0	138.0	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](#)

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND	
POLLUTANT	
No. Annex II	Name

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

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

RELEASES TO LAND	
POLLUTANT	
Pollutant No.	Name

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

METHOD			Please enter all quantities i
METHOD			
M/C/E	Method Used		
	Method Code	Designation or Description	Emission Point 1
			0.0

) then click the delete button

METHOD			Please enter all quantities i
METHOD			
M/C/E	Method Used		
	Method Code	Designation or Description	Emission Point 1
			0.0

) then click the delete button

n this section in KGs	
QUANTITY	
T (Total) KG/Year	A (Accidental) KG/Year
0.0	0.0

n this section in KGs	
QUANTITY	
T (Total) KG/Year	A (Accidental) KG/Year
0.0	0.0

4. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

(FRS# W0173) Facility Name: Clearstar Environmental Services Limited (Floraire - w0173_2015-01) (Year: 2015)

26/03/2016 17:03

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	Licence / Name and Location of the Receiving Facility	Name and Location / Permit No. and Address of Final Receiver / (Where PROHIBITED WASTE ONLY)	Actual Address of Final Destination (ie. Final Receiver / Operator) (PROHIBITED WASTE ONLY)
						MFC	Method Used				
To Other Countries	19 01 01	No	2277.0	paper and cardboard packaging	R3	M	Washed	Abroad	Cell Mark, TFS Broker IRE 0180 11	.....Ireland	
Within the Country	15 01 01	No	2.0	paper and cardboard packaging	R3	M	Washed	Offsite in Ireland	Clytown Enterprises,WFP, 10-0007-02	Sarsfieldcourt Ind Est.,Cork, Ireland	
To Other Countries	15 01 01	No	304.0	paper and cardboard packaging	R3	M	Washed	Abroad	Reuse Paper Recycling TFS Broker IRE 0305 11	.....Ireland	
To Other Countries	15 01 01	No	446.0	paper and cardboard packaging	R3	M	Washed	Abroad	Pamy & Evans, TFS Broker 0310 11	.....Ireland	
To Other Countries	15 01 01	No	875.0	paper and cardboard packaging	R3	M	Washed	Abroad	Minin Environmental,TFS Broker IRE 02 11	.....Ireland	
To Other Countries	15 01 01	No	353.0	paper and cardboard packaging	R3	M	Washed	Abroad	MULLEN TFS Broker IRE 0302 11	.....Ireland	
To Other Countries	15 01 01	No	468.0	paper and cardboard packaging	R3	M	Washed	Abroad	Boort Recycling TFS Broker IRE 0302 11	.....Ireland	
Within the Country	15 01 02	No	50.0	plastic packaging	R3	M	Washed	Offsite in Ireland	Ason Exale,CK (S) 050208	Little Island,.....Cork,Ireland	
To Other Countries	15 01 02	No	40.0	plastic packaging	R3	M	Washed	Abroad	Reuse Paper Recycling TFS Broker IRE 0305 11	.....Ireland	
Within the Country	15 01 02	No	145.0	plastic packaging	R3	M	Washed	Offsite in Ireland	Leitner Environmental,WFP LH 08 0008 01	Dundalk,.....Co Louth,Ireland	
To Other Countries	15 01 02	No	91.0	plastic packaging	R3	M	Washed	Abroad	Choice Waste Management,TFS Broker IREAG0201 11	.....Ireland	
To Other Countries	15 01 02	No	37.0	plastic packaging	R3	M	Washed	Abroad	Boort Recycling TFS Broker IRE 0302 11	.....Ireland	
Within the Country	15 01 02	No	11.0	plastic packaging	R3	M	Washed	Offsite in Ireland	Clytown Enterprises,WFP, 10-0007-02	Sarsfieldcourt Ind Est.,Cork, Ireland	
Within the Country	15 01 02	No	20.0	plastic packaging	R3	M	Washed	Offsite in Ireland	Bailey Waste Recycling,WPT FG 08 0002 01	Rosemount Business Park,.....Dublin,Ireland	
Within the Country	15 01 03	No	2.0	wooden packaging	R3	M	Washed	Offsite in Ireland	Clytown Enterprises,WFP, 10-0007-02	Sarsfieldcourt Ind Est.,Cork, Ireland	
Within the Country	15 01 06	No	4534.0	mixed packaging cables other than those mentioned in 17 04	R3	M	Washed	Offsite in Ireland	Kilamey Waste Depot,W021 01	Kilamey,.....Co Kerry,Ireland	
Within the Country	17 04 11	No	1.0	10	R3	M	Washed	Offsite in Ireland	0013 01	Ringsend,.....Dublin 4,Ireland	
Within the Country	15 01 06	No	30.0	mixed packaging mixed construction and demolition wastes other than those mentioned in 17 08 01, 17 09 02 and 17 09 03	R3	M	Washed	Offsite in Ireland	Clytown Enterprises,WFP, 10-0007-02	Sarsfieldcourt Ind Est.,Cork, Ireland	
Within the Country	17 09 04	No	1244.0	wood other than that mentioned in 19 12 05	R3	M	Washed	Offsite in Ireland	Malco Contracts,dl/N2715 CTO Environmental,Wp 04 09 0018 02	Mornabey,.....Co Cork,Ireland	
Within the Country	19 12 07	No	20.0	wood other than that mentioned in 19 12 05	R3	M	Washed	Offsite in Ireland	0018 02	Rosellen,.....Co Cork,Ireland	
Within the Country	19 12 12	No	132.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Washed	Offsite in Ireland	KTJ Landfill,W0081-04	Kilculin,.....Co Kildare,Ireland	
Within the Country	19 12 12	No	22.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Washed	Offsite in Ireland	Inagh Landfill,W0109-01	Inagh Landfill,.....Co Carlow,Ireland	
Within the Country	19 12 12	No	24.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Washed	Offsite in Ireland	Greentar MF,W0163-01	Ballycorkin,.....Dublin,Ireland	
Within the Country	19 12 12	No	1648.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Washed	Offsite in Ireland	Greentar Cork,W0136-02	Sarsfieldcourt,.....Cork,Ireland	
Within the Country	19 12 12	No	1136.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Washed	Offsite in Ireland	Connaught Regional Landfill,w0176-01	Kilconnell,.....Co Galway,Ireland	
Within the Country	19 12 12	No	286.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Washed	Offsite in Ireland	Greentar Knockharney Landfill,W0146-02	Knockharney,.....Co Meath,Ireland	
Within the Country	19 12 12	No	2122.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Washed	Offsite in Ireland	KTJ Landfill,W0081-04	Kilculin,.....Co Kildare,Ireland	
Within the Country	19 12 12	No	434.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Washed	Offsite in Ireland	Inagh Landfill,W0109-01	Inagh Landfill,.....Co Carlow,Ireland	
To Other Countries	20 01 01	No	25.0	paper and cardboard	R3	M	Washed	Abroad	Boort Recycling TFS Broker IRE 0302 11	.....Ireland	
To Other Countries	20 01 01	No	377.0	paper and cardboard	R3	M	Washed	Abroad	Minin Environmental,TFS Broker IRE 02 11	.....Ireland	
To Other Countries	20 01 01	No	132.0	paper and cardboard	R3	M	Washed	Abroad	Agnes TFS BROKER IREIAG 11711	.....Ireland	
Within the Country	20 01 08	No	14.0	biodegradable kitchen and canteen waste	R3	M	Washed	Offsite in Ireland	Greentar Cork,W0136-02	Sarsfieldcourt,.....Cork,Ireland	
Within the Country	20 01 08	No	411.0	biodegradable kitchen and canteen waste	R3	M	Washed	Offsite in Ireland	Waterford Proteins,P0404-02	Christiansburg,.....Waterford,Ireland	
Within the Country	20 01 08	No	714.0	biodegradable kitchen and canteen waste discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous	R3	M	Washed	Offsite in Ireland	Acorn Recycling,W048-01	Tipsney,.....Co Tipperary,Ireland	
Within the Country	20 01 35	Yes	6.0	components	R4	M	Washed	Offsite in Ireland	RNK Metals,W0113-03	Tullamore,.....Co Offaly,Ireland	
Within the Country	20 01 38	No	1.14	wood other than that mentioned in 20 01 37	R3	M	Washed	Offsite in Ireland	Greentar Cork,W0136-02	Sarsfieldcourt,.....Cork,Ireland	
Within the Country	20 01 38	No	238.0	wood other than that mentioned in 20 01 37	R3	M	Washed	Offsite in Ireland	CTC Environmental,Wp 04 09 0018 02	Rosellen,.....Co Cork,Ireland	
Within the Country	20 01 40	No	13.0	metals	R4	M	Washed	Offsite in Ireland	Poussard Diamonds,CK (S) 47907	Fores Hill,.....Cork,Ireland	
Within the Country	20 01 40	No	81.0	metals	R4	M	Washed	Offsite in Ireland	Davis Recycling,WFP DL 09 0013 01	Ringsend,.....Dublin 4,Ireland	
Within the Country	20 03 07	No	21.0	bulky waste	R3	M	Washed	Offsite in Ireland	Greentar Cork,W0136-02	Sarsfieldcourt,.....Cork,Ireland	
Within the Country	20 03 07	No	26.0	bulky waste	D1	M	Washed	Offsite in Ireland	KTJ Landfill,W0081-04	Kilculin,.....Co Kildare,Ireland	

*Total quantity double checked by the Department of Waste from tick the double button

[Link to previous years waste data](#)
[Link to previous years waste accounting data & percentage change](#)