



Mr. Donal Howley,
Office of Environmental Enforcement,
East/North East Region,
Environmental Protection Agency,
McCumiskey House,
Richview,
Dublin 14.

30th March 2009

RE: 2008 Annual Environmental Report - Greenstar Ltd.- Millennium Business Pk (Reg. No. W0183-01)

Dear Mr. Howley,

Please find enclosed an original and 2 no. copies of the 2008 Annual Environmental Report (AER) for the above referenced facility. The AER file has been uploaded to the EPA website and is a true copy of the original Annual Environmental Report. The AER/PRTR emissions data reporting workbook has also been uploaded to the EPA website.

If you have any queries, please call me.

Yours sincerely,

Michael Watson

0804806/MG/MC

Encs.

c.c. Mr. Suzanne Byrne, Greenstar Ltd.
Mr. Simon Kelly, Greenstar Ltd.



**ANNUAL ENVIRONMENTAL REPORT
FOR GREENSTAR LTD.
MATERIALS RECOVERY FACILITY
MILLENNIUM BUSINESS PARK
LICENCE NO. W0183-01
JANUARY 2008 – DECEMBER 2008**

Prepared For: -

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Prepared By: -

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30th March 2009

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1. INTRODUCTION

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

This AER covers the period from January 2008 to December 2008. The content is based on Schedule G of the Waste Licence and the report format follows guidelines set in the “Guidance Note for Annual Environmental Report” issued by the Environmental Protection Agency (Agency).

2. SITE DESCRIPTION

2.1 Site Location and Layout

The facility occupies 4.45 hectares (ha) in the east of the Millennium Business Park, Ballycoolin, Dublin 11. The facility will be developed in a number of Phases. Phases 1 and 2 opened in July 2006 and involved the construction of the Materials Recovery Facility (MRF) and supporting ancillaries.

2.2 Waste Management Activities

The facility is licensed to accept and process 220,000 tonnes of waste per annum, comprising commercial/industrial non-hazardous waste, municipal waste and construction and demolition wastes.

2.3 Waste Types

The facility can accept the following waste types and volumes as specified in Schedule A of the Waste Licence: -

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

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

Key processes carried out include: -

- Baling and Compaction of Commercial & Industrial (C&I) waste,
- Separation of C&I waste into different waste streams (paper, cardboard, glass, metal, organic),
- Screening of C&D waste.

All waste processing takes place inside the building, as specified in Condition 4.1 of the Waste Licence. Table 2.1 details the on-site machinery.

Table 2.1 On-Site Machinery

No.	Plant	Model	Operational Capacity tpd	Standby Capacity tpd
	Synmet C&D process line		1200	750
	Synmet C&I process line		1200	750
	C&I Loading grab	Fuchs MHL 340	2160	1710
	C&I Loading grab	Fuchs MHL 335	2160	1710
	C&I sorting grab	Liebherr L904	972	672
	C&D Loading shovel	Volvo L120E	8640	7440
	Output area Loading shovel	Volvo L150F	3024	2124
	Output area Loading grab	Liebherr 924	972	672
	Compactor bin RORO shunter		216	88

C & I Waste

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

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

Construction & Demolition Waste

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

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

3. EMISSION MONITORING

The monitoring required for the Phase 1 and 2 includes surface water, wastewater, dust and noise monitoring. The monitoring locations are shown on Figure 3.1. The monitoring results were submitted to the Agency in the 2008 quarterly reports. An overview of the results of the monitoring is presented in this Section, with summary data included in Appendix 1.

3.1 Surface Water Monitoring

Surface water monitoring is carried out at two monitoring points (SW-1 and SW-2) as shown on Figure 3.1. The surface water drainage system serves the paved area of the site only. Rainwater from the roof of the MRF is directed to a grey water holding tank for use in the on-site welfare facilities. As only Phase 1 & 2 of the facility has been constructed approximately 50% of the site is paved.

During the monitoring period there was no flow in SW-1 and therefore it was not possible to collect a representative sample. Samples were collected from SW-2 in each of the quarters. The sampling and analysis was carried out in accordance with recognised quality assurance and control procedures.

The trigger levels set for BOD, total suspended solids and mineral oils were not exceeded and the discharge was in compliance with the licence conditions. The results are included in Appendix 1.

3.2 Wastewater Monitoring

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

In the reporting period floor wash downs were not necessary due to the relatively small volumes of putrescible wastes accepted at the facility. Vehicles are washed at the facility on an intermittent basis as necessary. The wash water is directed to a silt trap and then to a petrol/oil interceptor before discharging to the municipal sewer.

OCM collected six waste water samples in 2008. The Emission Limit Values were not exceeded during the reporting period and the discharge was in compliance with the licence conditions. The results are included in Appendix 1.

3.3 Noise Monitoring

The annual noise survey was carried out in June 2008. The full monitoring report was submitted to the Agency on the 29th August 2008. The monitoring locations included those specified in the Licence (N-1, N-2 and N-3) and one off-site noise sensitive location NSL-1 shown on Figures 3.1 and 3.2. The survey was conducted when the site was fully operational and confirmed that noise emissions complied with the Licence conditions.

3.4 Dust Monitoring

Dust monitoring was carried out on three occasions at four on-site locations (DS-01, DS-02, DS-03 and DS-04) in June, July and August 2008. The Licence requires two of these monitoring events be carried out between May and September. The results of the monitoring are included in Appendix 1.

The dust deposition limit (350 mg/m²/day) was not exceeded at any of the monitoring locations during the three monitoring events.

Figure 3.2 Noise Sensitive Location



4. SITE DEVELOPMENT WORKS

4.1 Engineering Works

In 2008 it was planned to construct the maintenance building however this work was not carried out. There are no engineering works planned for 2009. Greenstar will inform the Agency about any proposed specified engineering works in accordance with Condition 3.2.1 of the Licence.

4.2 Summary of Resource & Energy Consumption

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

Table 4.2 Estimate of Resources Used On-Site

Resources	Quantities
Diesel (green)	173,333 litres
Electricity	18,002,091 Units
Hydraulic, Transmission & Engine Oil	2,700 litres
Truck Wash Detergent	300 litres
Mains Water	5,000 litres ¹
Anti Freeze	40 litres
Natural Gas	63,948 Units

¹ – Estimated as meter failed during 2008.

4.3 Bund Integrity Testing

Tank, drum, pipeline and bund testing is to be carried out every three years. The facility is less than 3 years old and all testing was carried out at the time of construction and reported to the Agency as part of the Construction Quality Assurance Validation report completed in accordance with Condition 3.2.3. Bund and integrity testing is due to be carried out in 2009.

5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY

Table 5.1 shows the total quantities of waste received and consigned from the facility in 2008. Table 5.2 shows the total quantities of waste received and consigned in 2007. Table 5.3 shows the quantities of waste received and consigned in 2006. 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 133,813.88 tonnes. The total waste consigned was 129,366.26 tonnes. 412 tonnes of waste remained on site at the end of 2008 which will be consigned in 2009. The remaining difference (approximately 4,028 tonnes or 3% of the total) relates to errors which occur in variations between the two onsite weighbridges and the presence of rainwater in the open top skips brought on-site.

The recycling rate for the facility is estimated at 64.5%. All the wastes consigned from the site went to recovery and disposal facilities agreed with the EPA. The name and location of the facilities are given in Table 5.4.

Table 5.1 Waste Received & Consigned 2008

EWC	Description	Waste In	Waste Out	Destination
10 01 01	Ash	0.60		
10 01 23	Sludge		4.20	Ormonde Organic
10 02 11*	Oil & Water		1.32	Horizon
15 01 01	Cardboard Packaging	1,382.05	2,280.69	Bailey Waste
	Multi product load	3.90	133.68	Greenstar Fassaroe
15 01 02	Plastic Packaging	22.59		
	Polystyrene	4.83		
15 01 03	Pallets	16.76	62.16	Max Pallets Services
	Wooden Packaging	499.98	22.03	Chep Pallets
	Timber Packaging	1.44		
15 01 06	Mixed Packaging	3,950.90	2,691.72	Greenstar Fassaroe
15 01 07	Glass Packaging	18.25		
16 05 04	Gas Cylinders		2.64	Flo Gas
17 01 07	C&D Inert Mixed	3,735.84	12,106.80	Huntstown Quarry/Roadstone
			401.08	KTK Landfill
			4,421.32	M&J's Recycling Services
			246.72	Peter Moore
			70.80	Tom Davies
17 05 04	C&D Inert Mixed	20,841.62	26.10	Peter Moore
	Soil & Stones	447.93	448.60	Huntstown Quarry/Roadstone
			63.28	Peter Moore
17 08 02	Plasterboard	7.92		
19 09 05	Resin	4.16		
19 09 02	Sludge		14.24	Horizon
			11.72	Ormonde Organic
19 12 04	Rubber	8.10		
19 12 07	Wood	3.42		
19 12 09	Fines C&I	15.56	27,369.28	KTK Landfill
			26.78	Knockharley Landfill
	Fines C&D		231.98	KTK Landfill
			12,157.32	Knockharley Landfill
			2,514.58	Ballynagran Landfill
Minerals		73.84	Knockharley Landfill	
19 12 12	C&I Dry Mixed	33,326.96	35,209.92	KTK Landfill
			10,292.81	Knockharley Landfill
			878.56	Greenstar Fassaroe
MSW Municipal Mixed	51.76			
20 01 01	Cardboard & Paper	15.01	24.04	Bailey Waste
	Newsprint	13.12		
	Recy Paper	52.79		
	Printers Mix Loose	3.36		
20 01 08	Compost	65.02		
20 01 38	Wood	3,276.46	31.44	Eirebloc
			3,054.36	East Galway Landfill
			6,274.26	KTK Landfill
			1,844.36	Knockharley Landfill
			420.14	Greenstar Fassaroe
			20.32	Greenstar Waterford
1,211.94	Ballynagran Landfill			
20 01 39	Plastic	0.69		
20 01 40	Metal	676.01	4,721.23	Davis Recycling

EWC	Description	Waste In	Waste Out	Destination
20 02 01	Green Biodegradable Waste	178.10		
	Green Mixed	0.36		
20 03 01	MSW Municipal Mixed	21,082.88		
20 03 07	C&I Dry Mixed	44,105.51		
	Total Received	133,813.88		
	Total Consigned		129,366.26	
	Total Recycled		83,430.97	
	Total Disposed		45,935.21	
	Recycling Rate		64.49%	

Table 5.2 Waste Received & Consigned 2007

EWC	Description	Waste In	Waste Out	Destination
02 07 05	Sludge		16.76	Ormonde Organics
			2.24	Horizon
10 01 01	Ash	2.80		
10 02 11	Oil & Water		1.4	Eco Safe Systems Ltd.
15 01 01	Cardboard Packaging	1,455.52	2,183.96	Bailey Waste
			469.94	Greenstar Fassaroe
			4.00	Greenguard Recycling
	Cardboard & Paper	2.04		
15 01 02	Plastic Packaging	40.75		
	Polystyrene	32.39		
15 01 03	Pallets	8.60		
	Wooden Packaging	394.23		
15 01 04	Aluminium Cans	3.42		
15 01 06	Mixed Packaging	4,205.90	52.42	Regen Waste (Ireland)
			15.50	Clearpoint Recycling
			201.52	Thorntons
			2,911.34	Greenstar Fassaroe
15 01 07	Glass Packaging	3.27		
16 05 04*	Gas Cylinders		4.6	BOC Gas Dublin
			0.40	Flo Gas Ltd.
17 01 07	C&D Inert Mixed	27,549.53	279.76	Doherty Waste Management
			6,125.23	M&J's Recycling Services Ltd
			12,805.30	Huntstown Quarry/Roadstone
			226.32	Knockharley Landfill
17 05 04	C&D Inert Mixed	14,050.546	129.04	Doherty Waste Management
			264.54	M&J's Recycling Services Ltd
			37.84	Huntstown/Roadstone
	Soil & Stones	154.61		
17 08 02	LDF Gypsum	51.76		
	Plasterboard	158.71		
19 05 03	Food Ingredients	30.44		
19 09 02	Sludge	11.64		
19 12 02	Metal		5,040.44	Davis Recycling Ltd.
19 12 07	Wood	2,639.53	4,375.64	KTK Landfill
			9,443.31	Knockharley Landfill
			531.16	Galway Landfill
			104.44	Ormonde Organic
			1,486.30	Ballynagran Landfill
19 12 09	Fines C&D	21.79	60.02	KTK Landfill
			16,289.89	Knockharley Landfill
			20.18	Greenstar Fassaroe
	Fines C&I	40.04	5,121.65	Ballynagran Landfill
			41,171.45	KTK Landfill
			113.60	Knockharley Landfill
			22.92	Ballynagran Landfill
	MSW Municipal Mixed	13.74		

EWC	Description	Waste In	Waste Out	Destination
19 12 12	C&I Dry Mixed	38,229.02	147.32	AES Midland Waste Navan
			912.02	Panda Waste
			4,552.64	Louth County Council
			15,052.11	KTK Landfill
			6,263.91	Knockharley Landfill
			22,230.89	Greenstar Fassaroe
	MSW Municipal Mixed	95.34	76.74	BRP Baler
			22.04	Louth County Council
			3,001.12	BRP Baler
		56.42	Greenstar Fassaroe	
20 01 01	Bedding Paper	1.20		
	Newsprint	111.42		
	Recycled Paper	65.10		
20 01 02	Glass	12.27		
20 01 08	Compost	34.60		
20 01 21*	Fluorescent Tubes	0.05		
20 01 25	Cooking Oil	0.30		
20 01 35	Monitors	36.94		
20 01 36	Electronics & Electrics	1.82		
20 01 38	Wood	3,156.39		
20 01 40	Metal	478.96		
20 02 01	Green Biodegradable Waste	98.58		
	Green Mixed	0.87		
20 03 01	MSW Municipal Mixed	19,163.69		
20 03 07	C&I Dry Mixed	54,719.89		
	Industrial Non-Haz solids	1.04		
91 00 00	None	3.50		
	Total Received	167,056.84		
	Total Consigned		161,828.21	
	Total Recycled		109,492.71	
	Total Disposed		52,335.5	
	Recycling Rate		67.66%	

Table 5.3 Waste Received & Consigned

	2006	2007
Total Received	79,570.21	167,056.84
Total Consigned	80,725.68	161,828.21
Total Recycled	53,646.88	109,492.71
Total Disposed	27,078.80	52,335.5
Recycling Rate	66.5%	67.66%

Table 5.4 Off-Site Disposal / Recovery Agents

Final Recovery or Disposal Destination	Waste Licence or Permit	Waste Type Accepted
Baileys Waste Paper, Rosemount Business Park, Blanchardstown, Dublin 16	WPT(1)B	Paper & Cardboard
Ballynagran Landfill, Coolbeg and Kilcandra, Co. Wicklow	W0165-01	Residuals
Chep Pallets, Jamestown Business Park, Finglas Dublin 11	No permit required for sale of pallets	Wooden Pallets
Davis Recycling Ltd., Pigeon House Road, Dublin 4	WP 98067	Metal, Plastic & Mixed Electronics
East Galway Landfill, Greenstar Ltd., Killagh More, Ballybaun, Ballintober, Ballinasloe, Co. Galway	W0178-01	Wood
Eirebloc, Lissarda, Co. Cork	CK (S) 503/07	Wood
Flo Gas Ltd	No Collection Permit required for Collecting their own gas bottles.	Gas Bottles. Reference Brian Walsh 041-9831041
Greenstar Recycling, Fassaroe, Bray, Co. Wicklow	W0053-03	C & D Fines, Concrete and bricks.
Greenstar Waterford, Six Cross Roads, Carriganard, Waterford	W0116-02	Wood
Horizon	CPD 277-2	Waste Sludge
Huntstown Quarry/ Roadstone	WPT 108	Concrete, Bricks
Knockharley Landfill, Navan, Co. Meath	W0146-01	Residuals
KTK Landfill, Kilcullen, Co. Kildare	W0081-01	C & I Waste
Max Pallets, Unit 1 Colemanstown, Rathcoole, Co. Dublin	No permit required for sale of pallets	Wooden Pallets
M&J's Recycling Services Ltd.,	No permit required for sale of recovered stone	Stone
Ormonde Organics Ltd., Unit 643, Greenogue Industrial Estate, Rathcoole, Co. Dublin	W0237-01	Woodchip
Peter Moore	Derogation per letter W0183-01/ap08NH	Stone
Tom Davies	Derogation per letter W0183-01/ap08NH	Stone

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There was one reportable incident on the 9th July 2008 when there was a fire in the C&I shredder. The incident did not cause any discernible environmental impacts and the Agency were notified by fax on the 10th July 2008. A copy of the incident report is included in Appendix 2.

6.2 Register of Complaints

Greenstar maintains a register of complaints received in accordance with Condition 10.2 of the waste licence. There were no complaints received during the reporting period.

7. ENVIRONMENTAL DEVELOPMENT & CONTROL

7.1 Environmental Management Programme Report

Greenstar has developed an Environmental Management System (EMS) for the facility. As part of this EMS Greenstar has developed a list of environmental, management, operating and maintenance procedures, in 2008 a new procedure for the handling of gypsum waste was developed, a copy of which is included in Appendix 3.

7.1.1 *Site Management Structure*

Management and Staffing structure: -

Name: Aidan Shanahan

Responsibility: Head of MRF Operations

Experience: 5 years experience waste management experience; has completed the FÁS waste management course.

Name: Simon Kelly

Responsibility: Engineering Manager

Experience: 3 years experience; has completed the FÁS waste management course.

Name: Jimmy White

Responsibility: Operations Manager

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

7.1.2 *Staff Training*

Staff training carried out during the year included induction training, manual handling training and forklift training. Details on staff training 2008 are included in Appendix 4.

7.2 Environmental Management Programme

7.2.1 Schedule of Objectives 2008

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.

7.2.2 Schedule of Objectives 2009

A schedule of targets and objectives for 2009 has been set by the management of the facility. These objectives are outlined in Table 7.2.

7.3 Communications Programme

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

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

Records available for public inspection on site include:-

- Environmental Policy,
- Waste Licence,
- Licence Application and Review documentation,
- Monitoring Records,
- Complaints File,
- EPA Correspondence File.

Opening Times for Inspection of Records are from 10 am - 4 pm.

Visits to the site should be arranged in advance by ringing the Facility Manager or Supervisor at 1890 600 900.

Table 7.1 Objectives and Targets for 2008

No	Objective	Target	Responsibility	Progress
1	Minimise odours at the facility	Monitor odour daily.	Facility Manager	Completed
2	Environmental Monitoring	Ensure monitoring results comply with licence limits and investigate any exceedances of emission limit values	Facility Manager	Ongoing
3	Improve Hazardous Waste Management on site	Arrange for the segregation and collection of lead-acid batteries on-site to an authorised outlet	Facility Manager	Ongoing
		Obtain Material Safety Data Sheets (MSDS) for all hazardous materials used on site.	Facility Manager	Completed
		Set up contract with hazardous waste contractor for the removal of hazardous waste generated through maintenance.	Facility Manager	Completed
4	Emergency Response Training	Carry out Emergency Response training for all staff, e.g. fire drills.	Facility Manager	Completed
5	Prevent Litter being deposited beyond the site perimeter.	Ensure litter is removed at the end of each working day.	Facility Manager	Completed
6	Reduce the energy/fuel usage at the facility.	Review the provision of a fuel management system at the site for fuel security and to allow fuel efficiency review of plant and equipment	Facility Manager	Pricing and specifications received. Awaiting capex approval
7	Reduce the energy/fuel usage at the facility.	Introduce Energy Saving Initiatives & Policies	Facility Manager	Completed
8	Recycling Rate	Achieve a recycling rate for the facility of 50%	Facility Manager	Completed

Table 7.2 Schedule of Objective and Targets 2009

No	Objective	Target	Responsibility	Timescale
1	Improve Hazardous Waste Management on site	Arrange for the segregation collection of lead-acid batteries on-site in quarantine area. Arrange removal to an authorised outlet	Facility Manager	Q1 2009
		Monitor oil quality for large shredders to increase oil change interval from 2000 hrs to 3000 hrs		
2	Emergency Response Training	Increase number of trained Fire Wardens to cover all CRO's from 2 to 3	Facility Manager	Q1 2009
3	Improve housekeeping	Roll out cleaning schedule to Team Leader and ensure resources are available. Ensure resources (manpower) are available	Facility Manager	Q1 2009
4	Reduce the energy/fuel usage at the facility.	Review the provision of a fuel management system at the site for fuel security and to allow fuel efficiency review of plant and equipment. Monitor gas usage at least quarterly. Monitor water usage at least quarterly. Monitoring electricity usage at least quarterly.	Facility Manager	Q2 2009
5	Improve the maintenance area provided on-site	Move the maintenance area	Facility Manager	Q3 2009
6	Improve access to fixed plant and equipment	Construct 4 additional walkways for plant access.	Facility Manager	Q3 2009

7.4 Report Financial Provision

Greenstar has accrued over €3,000,000 in funds, to provide for any potential environmental liabilities at this facility. Greenstar also 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

Greenstar has contracted a vermin control company Pestgard to carry out nuisance control at the facility. Pestgard undertake a 6 weekly review of the vermin activity on-site along with an inspection of the bait traps that are located throughout the facility.

7.6 European Pollutant Release and Transfer Register Regulation

Under the European Pollutant Release and Transfer Register Regulation (EC) No. 166/2006 Greenstar are required to submit information annually to the Agency. A copy of the information submitted to the Agency via the web-based data reporting system is included in Appendix 5.

7.7 Rainwater and Wastewater Volumes

No rainwater was reused at the facility during the reporting period as the grey water reuse system has been de-commissioned. It is not possible to give an exact figure for the amount of wastewater produced during the reporting period. It is estimated that approximately 31.5 tonnes of wastewater was removed off site by Horizon Ltd in 2008 from the bund, interceptors and drainage lines cleaning programme. Approximately 1,000 m³ of water was used by the truck wash during the year.

8. OTHER REPORTS

No other reports were requested by the Agency.

APPENDIX 1

Environmental Monitoring Summary Tables

SURFACE WATER MONITORING RESULTS

Parameter	Units	SW-2	SW-2	SW-2	SW-2
		Q1	Q2	Q3	Q4
pH	pH Units	7.45	7.6	7.44	7.5
Conductivity	mS/cm	0.691	0.451	0.143	0.49
Temperature	°C	6.4	11.1	17.9	10.9
Ammoniacal Nitrogen	mg/l	0.3	<0.3	<0.2	0.9
BOD	mg/l	7	<1	<2	6
COD	mg/l	36	<20	23	78
Total Suspended Solids	mg/l	16	22	30	<10
Oils, Fats & Greases	mg/l	<1	<4	<1	<1
Mineral Oils	mg/l	<0.01	<0.05	<0.01	<0.01

WASTEWATER MONITORING RESULTS

Parameter	Units	SE-1	SE-1	SE-1	SE-1	SE-1	SE-1
		Jan-08	Mar-08	May-08	Jul-08	Sep-08	Dec-08
pH	pH Units	7.29	7.58	7.01	7.6	7.49	7.69
Temperature	°C	7.6	8.2	16.8	14.5	15.9	7.5
Ammoniacal Nitrogen	mg/l	2.6	0.5	0.3	2	3.6	0.2
BOD	mg/l	57	2	25	29	175	4
COD	mg/l	209	22	25	505	182	<15
Total Suspended Solids	mg/l	309	19	15	656	38	<10
Oils, Fats & Greases	mg/l	2	<0.4	13	<4	<1	<1
Orthophosphate	mg/l	0.23	<0.032	0.1	<0.1	<0.01	<0.01
Surfactants	mg/l	0.5	<0.5	2	<0.3	1	<0.2
Sulphate	mg/l	274	67	22	86	102	47

DUST DEPOSITION RESULTS

	Jun-08	Jul-08	Aug-08
DS-01	102	85	163
DS-02	184	243	145
DS-03	287	298	325
DS-04	138	*	270

NOISE RESULTS

Station	Time	Laeq 30 min dB	LA10 30 min dB	LA90 30 min dB	Noise audible
N1	1114-1144	59	62	55	Emissions from high level vents dominant in background throughout measurement. Trucks around yard and through weighbridge area also audible. Rustling vegetation. Occasional aircraft at low altitude significant.
N2	1040-1110	67	68	65	Emissions from high level vents dominant in background throughout measurement. Other site sources also audible continuously: plant in main building, and trucks around yard and through weighbridge area. Rustling vegetation. Occasional aircraft at low altitude significant.
N3	1006-1036	72	74	61	Air handling system operating for most of measurement. Emissions from high level vents entirely dominant. No other noise sources audible apart from reversing alarms onsite and at adjacent site. When air handling system off, emissions audible from plant at both sites.
NSL1	1152-1223	68	71	60	No Greenstar emissions audible. Noise dominated entirely by almost continuous road traffic, and by emissions from excavators x3 and several dump trucks operating at opposite site. Occasional low altitude aircraft audible. Rustling vegetation.

APPENDIX 2

Incident Reports

**INCIDENT / ACCIDENT REPORT****REVISION: 3****NAME:** Simon Kelly**Reference** **024****DATE:** 9 July 2008**TIME:** 08:15**LOCATION:** Millennium Park**INCIDENT:** A flame was seen on the conveyor taking material from the C&I shredder to the C&I trommel and a fire subsequently began in the C&I shredder.**CLASSIFICATION:** Incident.**INVESTIGATED BY:** Simon Kelly, Engineering Manager, ph +353 86 821 0342**DESCRIPTION OF EVENTS**

At 08:15 approximately, a fire was noticed in the C&I shredder. The Control Room Operator immediately alerted all radio holders that there was a fire. At the same time, the control room operator hit the E-Stop button and the entire plant stopped.

Simon Kelly called 112 after observing that the fire did not appear to be out after a short period (15 seconds approx) and the fire fighting effort began. The 112 call was placed at 08:16 am.

The building was evacuated and all site traffic was stopped. The yard area giving access to the C&I Shredder was cleared of all vehicles. A head count revealed all MRF staff (permanent and agency) were accounted for.

A staff member was dispatched to the main road to greet Dublin Fire Brigade (DFB) on their arrival. The staff in the Admin building were advised of the situation but were not evacuated as there was no immediate threat to this building.

The fire fighting effort continued using hydrant equipment stored on-site and the fire was brought under control by the time DFB attended at about 08:35. DFB took over the fire fighting effort and confirmed the fire to be out about 09:15. At that time a loading driver was called back into the building and the shredder was emptied by the loading driver as much as possible. The removed material was doused with water and foam and spread on the Input Area floor to confirm it was not alight by DFB. The remainder of the material in the shredder was run through slowly and continually doused with water from the fire tender under the direct instruction of DFB.

By about 09:45 DFB were satisfied the fire was completely out and the all clear was given. The site was reopened to traffic and tipping of waste recommenced.

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Issue	3	Date	26/09/06



The process lines were thoroughly inspected for signs of smoldering material and declared safe shortly afterwards. The water was cleared into the foul drains and processing recommenced at 11:00.

There were no reported injuries and no environmental pollution was caused. In total about 2000L of water used during the course of the fire was retained within the building and diverted to the public foul sewer.

IMMEDIATE ACTION

THE FIRE WAS EXTINGUISHED USING ON-SITE EQUIPMENT AND DFB AND WAS FINALLY DECLARED OUT BY DFB.

TREATMENT

None required.

INVESTIGATION OF INCIDENT / ACCIDENT

No cause for the fire was determined, a review of the material around the site of the fire revealed no obvious signs of highly flammable materials.

ROOT CAUSE

UNDETERMINED.

CONTRIBUTING FACTORS

None determined.

ACTION REQUIRED	OWNER	COMPLETION DATE
TBD	TBD	TBD

Return to Work Date: N/A

No. Days Lost: N/A

Additional Comments:

None


Cc

EPA Regional Inspectorate Dublin Fax: 01-268 0199	Eastern Regional Fisheries Board Fax: +353 1 2787025
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Form Reference No.	GS 029	Issued by	Oliver Callan
Issue	3	Date	26/09/06

APPENDIX 3

New Procedures

DOCUMENT TYPE	PROCEDURE	SOP 080	
TITLE	Gypsum Based Material		
Controlled Document			

1. SCOPE/OBJECTIVE

This procedure will apply to all Greenstar facilities.

The purpose of this procedure is to ensure the safe and efficient handling, rejection and/or quarantining of gypsum based material.

2. RESPONSIBILITY

The Facility Manager (FM) will implement this procedure.

The FM, Environment Manager (EM), Site Operatives (SO) and Customer Care (CC) personnel will follow this procedure.

3. DEFINITION

“Non -hazardous gypsum-based materials” typically include plaster board waste from construction and demolition sites which can often be present in general C&D waste skips. In terms of the European Waste Catalogue, separately collected gypsum based construction material is coded as 17 08 02 and source separation of this material is encouraged. Typically, however, gypsum wastes arising from works of demolition in particular may arise in general C&D waste loads. In this instance the appropriate code is 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03).

COUNCIL DECISION of 19 December 2002 establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 of Annex II to Directive 1999/31/EC states:

“2.2.3. Gypsum Waste;

Non hazardous gypsum-based materials should be disposed of only in landfills for non-hazardous waste in cells where no biodegradable waste is accepted”.

Mixing gypsum wastes with biodegradable wastes can lead to the evolution of hydrogen sulphide and consequently where gypsum based material is accepted at a non landfill site, this material must be segregated from the general (C&D) waste accepted.


Site Safety Statement

4. PROCEDURE

4.1. Generalities

Gypsum based material may arrive on site mixed with general Construction and Demolition (C&D) waste. Where possible and practicable, all gypsum-based products must be segregated from other types of C&D waste and stored separately in a suitable, clearly labelled, covered container pending removal off-site to a licensed or permitted facility.

DOCUMENT NUMBER	SO P 018	ISSUE DATE	08/05/08	REVISION NUMBER	6	Page 1 of 2	ISSUED BY	S B	AUTHORISED BY	M D
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DOCUMENT TYPE	PROCEDURE	SOP 080	 <i>greenstar</i> <small>setting the standard</small>
TITLE	Gypsum Based Material		
Controlled Document			

Where large proportions of gypsum waste are found to be contaminating skips received from a particular customer on an on-going basis, the FM must contact the Customer Account Manager to explain that further loads of this nature will not be received at the facility, giving reasons why and insisting that the customer site in question avail of separate covered storage and collection of gypsum-based waste for removal to licensed facilities.

The FM will arrange for the transport and disposal off-site of segregated gypsum based material by an approved third party specialist contractor (Ref. SOP 016, and GS028).

This material will only be sent to a fully approved (licensed or permitted) facility.

DOCUMENT NUMBER	SOP 018	ISSUE DATE	08/05/08	REVISION NUMBER	6	Page 2 of 2	ISSUED BY	S B	AUTHORISED BY	M D
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APPENDIX 4

Staff Training Records

NAME	SURNAME	Dept	Induction	Manual Handling	Forklift
Ronan	HEALY	Machine Driver			
Aleksandr	KUZMINS	Machine Driver	28/02/2008		
Tony	LYNCH	Machine Driver		04/01/2008	
Laris	MALINAUSKAS	Operative			
Wayne	McCARTHY	Machine Driver			
Irmantas	PAUZA	Operative			
Gediminas	PIRAGIS	Operative			
Alvydas	SAMSONAS	Operative		04/01/2008	
Gerard	WHITEHOUSE	Machine Driver	28/02/2008		
Eriks	ZAHAREVICS	Machine Driver			16/09/2008
Simon	Kelly	Manager			
Jimmy	White	Manager		04/01/2008	
Robert	Molga	Operative			
Robert	Balicki	Operative			
Mateusz	Wesiak	Operative	28/02/2008		
Krzystof	Bober	Operative	28/02/2008		
Konrad	Konaszewski	Operative			

APPENDIX 5

European Pollutant Release and Transfer Register

AER Returns Worksheet

Version 1.1.03

REFERENCE YEAR	2008
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1. FACILITY IDENTIFICATION

Parent Company Name	Greenstar Holdings Limited
Facility Name	Greenstar Recycling Holdings Ltd
PRTR Identification Number	W0183
Licence Number	W0183-01

Waste or IPPC Classes of Activity

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

Address 1	Millennium Business Park
Address 2	Grange
Address 3	Ballycoolin
Address 4	Dublin 11
Country	Ireland
Coordinates of Location	0.000
River Basin District	IE-Eastern
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Suzanne Byrne
AER Returns Contact Email Address	suzanne.byrne@greenstar.ie
AER Returns Contact Position	Environmental Executive
AER Returns Contact Telephone Number	01-2947949
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	01-2947900
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5c	Installations for the disposal of non-hazardous waste

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

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

4.1 RELEASES TO AIR

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR								
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

RELEASES TO AIR								
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)

RELEASES TO AIR								
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 Recycling Holdings Ltd				
Please enter summary data on the quantities of methane flared and / or utilised			Method Used		
	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

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

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

* 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								
POLLUTANT		Method Used			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
						0.0	0.0	0.0

* 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								
POLLUTANT		Method Used			QUANTITY			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	SW-2 Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
238	Ammonia (as N)	E	EN ISO 17025	Flow was estimated based on rainfall amount over the year and the area of the facility. The analysis was ISO accredited	11.311	11.311	0.0	0.0
303	BOD	E	EN ISO 17025	Flow was estimated based on rainfall amount over the year and the area of the facility. The analysis was ISO accredited	122.538	122.538	0.0	0.0
306	COD	E	EN ISO 17025	Flow was estimated based on rainfall amount over the year and the area of the facility. The analysis was ISO accredited	860.908	860.908	0.0	0.0
240	Suspended Solids	E	EN ISO 17025	Flow was estimated based on rainfall amount over the year and the area of the facility. The analysis was ISO accredited	427.312	427.312	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

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER									
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								
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Used		SE-1 Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
238	Ammonia (as N)	E	EN ISO 17025	Based on an estimate of water used in the wheel wash and run off from the MRF building	4.6	4.6	0.0	0.0
303	BOD	E	EN ISO 17025	Based on an estimate of water used in the wheel wash and run off from the MRF building	146.0	146.0	0.0	0.0
306	COD	E	EN ISO 17025	Based on an estimate of water used in the wheel wash and run off from the MRF building	565.8	565.8	0.0	0.0
240	Suspended Solids	E	EN ISO 17025	Based on an estimate of water used in the wheel wash and run off from the MRF building	622.2	622.2	0.0	0.0
332	Ortho-phosphate (as PO4)	E	EN ISO 17025	Based on an estimate of water used in the wheel wash and run off from the MRF building	0.495	0.495	0.0	0.0
314	Fats, Oils and Greases	E	EN ISO 17025	Based on an estimate of water used in the wheel wash and run off from the MRF building	22.5	22.5	0.0	0.0
343	Sulphate	E	EN ISO 17025	Based on an estimate of water used in the wheel wash and run off from the MRF building	299.0	299.0	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

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND							
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)

RELEASES TO LAND							
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#: W0183 | Facility Name : Greenstar Recycling Holdings Ltd | Filename : W0183_2008.xls | Return Year : 2008 |

30/03/2009 15:25

Transfer Destination	European Waste Code	Hazardous	Quantity T/Year	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Name and Licence / Permit No. of Recoverer / Disposer / Broker	Address of Recoverer / Disposer / Broker	Name and Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)	Licence / Permit No. of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	10 01 23	No	4.2	Sludge	D8	M	Weighed	Offsite in Ireland	Ormonde Organics W0237-01	Unit 643, Greenogue Industrial Estate, Rathcoole, Co.Dublin.		
Within the Country	10 02 11	Yes	1.32	Oil & Water	D8	M	Weighed	Offsite in Ireland	Horizon CPD 277-2	Horizon, Old Airport Road, Cloghran, Co. Dublin	CPD 277/2	
Within the Country	15 01 01	No	2280.69	Cardboard Packaging	R12	M	Weighed	Offsite in Ireland	Baileys Waste Paper WTP(1)B	Rosemount Business Park, Blanchardstown, Dublin 16		
Within the Country	15 01 01	No	133.68	Cardboard Packaging	R12	M	Weighed	Offsite in Ireland	Greenstar Fassaroo W0053-03	Fasaroe, Bray, Co. Wicklow		
Within the Country	15 01 03	No	62.16	Pallets	R3	M	Weighed	Offsite in Ireland	Max Pallets Services	Unit 1 Colemanstown, Rathcoole, Co. Dublin		
Within the Country	15 01 03	No	22.03	Wooden Packaging	R3	M	Weighed	Offsite in Ireland	Chep Pallets	Jamestown Business Park, Finglas, Dublin 11		
Within the Country	16 05 04	Yes	2.64	Gas Cylinders	R4	M	Weighed	Offsite in Ireland	Flo Gas Ltd	Drogheda Co. Louth	Flo Gas Ltd Drogheda, Co. Louth	Not Applicable
Within the Country	15 01 06	No	2691.72	Mixed Packaging	R12	M	Weighed	Offsite in Ireland	Greenstar Fassaroo W0053-03	Fasaroe, Bray, Co. Wicklow		
Within the Country	17 01 07	No	12106.8	C&D Inert Mixed	R5	M	Weighed	Offsite in Ireland	Huntstown Quarry/Roadstone WPT 108	Huntstown, Co. Dublin		
Within the Country	17 01 07	No	401.08	C&D Inert Mixed	D5	M	Weighed	Offsite in Ireland	KTK Landfill W0081-01	Kilcullen Co. Kildare		
Within the Country	17 01 07	No	4421.32	C&D Inert Mixed	R5	M	Weighed	Offsite in Ireland	M and J's Recycling services Ltd.	Sandyhills, St. Margarets, Co. Dublin		
Within the Country	17 01 07	No	246.72	C&D Inert Mixed	R5	M	Weighed	Offsite in Ireland	Peter Moore	23 Turvey Drive, Donabate and Garristown, Co. Dublin		
Within the Country	17 01 07	No	70.8	C&D Inert Mixed	R5	M	Weighed	Offsite in Ireland	Tom Davies	23 Turvey Drive, Donabate and Garristown, Co. Dublin		
Within the Country	17 05 04	No	26.1	C&D Inert Mixed	R5	M	Weighed	Offsite in Ireland	Peter Moore	23 Turvey Drive, Donabate and Garristown, Co. Dublin		
Within the Country	17 05 04	No	448.6	Soil & Stones	R5	M	Weighed	Offsite in Ireland	Huntstown Quarry/Roadstone WPT 108	Huntstown, Co. Dublin		
Within the Country	17 05 04	No	63.28	Soil & Stones	R5	M	Weighed	Offsite in Ireland	Peter Moore	23 Turvey Drive, Donabate and Garristown, Co. Dublin		
Within the Country	19 09 02	No	14.24	Sludge	D8	M	Weighed	Offsite in Ireland	Horizon CPD 277-2	Collinstown Business Park, Old Airport Road, Cloghran, Co. Dublin		
Within the Country	19 09 02	No	11.72	Sludge	D8	M	Weighed	Offsite in Ireland	Ormonde Organics W0237-01	Unit 643, Greenogue Industrial Estate, Rathcoole, Co.Dublin.		
Within the Country	19 12 09	No	27369.28	Fines C&I	R5	M	Weighed	Offsite in Ireland	KTK Landfill W0081-01	Kilcullen Co. Kildare		
Within the Country	19 12 09	No	26.78	Fines C&I	R5	M	Weighed	Offsite in Ireland	Knockharley Landfill W0146-01.	Navan, Co. Meath		
Within the Country	19 12 09	No	231.98	Fines C&D	R5	M	Weighed	Offsite in Ireland	KTK Landfill W0081-01	Kilcullen Co. Kildare		
Within the Country	19 12 09	No	12157.32	Fines C&D	R5	M	Weighed	Offsite in Ireland	Knockharley Landfill W0146-01.	Navan, Co. Meath		
Within the Country	19 12 09	No	2514.58	Fines C&D	R5	M	Weighed	Offsite in Ireland	Ballynagran Landfill, W0165-01.	Coolbeg and Kilcandra, Co. Wicklow		
Within the Country	19 12 09	No	73.84	Minerals	R5	M	Weighed	Offsite in Ireland	01.	Navan, Co. Meath		
Within the Country	19 12 12	No	35209.92	C&I Dry Mixed	D5	M	Weighed	Offsite in Ireland	KTK Landfill W0081-01	Kilcullen Co. Kildare		
Within the Country	19 12 12	No	10292.81	C&I Dry Mixed	D5	M	Weighed	Offsite in Ireland	Knockharley Landfill W0146-01.	Navan, Co. Meath		
Within the Country	19 12 12	No	878.56	C&I Dry Mixed	R12	M	Weighed	Offsite in Ireland	Greenstar Fassaroo W0053-03	Fasaroe, Bray, Co. Wicklow		
Within the Country	20 01 01	No	24.04	Cardboard & Paper	R3	M	Weighed	Offsite in Ireland	Baileys Waste Paper WTP(1)B	Rosemount Business Park, Blanchardstown, Dublin 16		
Within the Country	20 01 38	No	31.44	Wood	R3	M	Weighed	Offsite in Ireland	Eirebloc CK (S) 503/07	Lissarda, Co. Cork		

Transfer Destination	European Waste Code	Hazardous	Quantity T/Year	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Name and Licence / Permit No. of Recoverer / Disposer / Broker	Address of Recoverer / Disposer / Broker	Name and Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)	Licence / Permit No. of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	20 01 38	No	3054.36	Wood	R3	M	Weighed	Offsite in Ireland	East Galway Landfill W0178-01	Killagh More, Ballybaun, Ballintober, Ballinasloe, Co. Galway		
Within the Country	20 01 38	No	6274.26	Wood	R3	M	Weighed	Offsite in Ireland	KTK Landfill W0081-01	Kilcullen Co. Kildare		
Within the Country	20 01 38	No	1844.36	Wood	R3	M	Weighed	Offsite in Ireland	Knockharley Landfill W0146-01.	Navan, Co. Meath		
Within the Country	20 01 38	No	420.14	Wood	R3	M	Weighed	Offsite in Ireland	Greenstar Fassaroe W0053-03	Fassaroe, Bray, Co. Wicklow		
Within the Country	20 01 38	No	20.32	Wood	R3	M	Weighed	Offsite in Ireland	Greenstar Waterford W0116-02	Six Cross Roads, Carrignanard, Waterford		
Within the Country	20 01 38	No	1211.94	Wood	R3	M	Weighed	Offsite in Ireland	Ballynagran Landfill, W0165-01.	Coolbeg and Kilcandra, Co. Wicklow		
Within the Country	20 01 40	No	4721.23	Metal	R3	M	Weighed	Offsite in Ireland	Davis Recycling Ltd WP 98067	Pigeon House Road, Dublin 14		

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