



ANNUAL ENVIRONMENTAL REPORT

GREENSTAR LIMITED

GOREY BUSINESS PARK, GOREY

COUNTY WEXFORD

LICENCE NO. W0220-01

JANUARY 2013 – DECEMBER 2013

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Project	Annual Environmental Report 2013			
Client	Greenstar Ltd. W0220-01			
Report No	Date	Status	Prepared By	Reviewed By
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1. INTRODUCTION

This is the 2013 Annual Environmental Report (AER) for the Greenstar Ltd (Greenstar), Materials Recovery & Transfer facility (MRF) at Gorey Business Park, Ramstown, Gorey, County Wexford. It covers the period from the 1st January 2013 to the 31st December 2013. During the reporting period, Greenstar was in receivership but ownership of the company and transfer of the licence to Starrus Eco Holdings Ltd (trading as Greenstar) was completed in March 2014.

The content is based on Schedule F of the Waste Licence (Reg. No. W0220-01) and the report format follows guidelines set in the “Guidance Note for Annual Environmental Report” issued by the Environmental Protection Agency (Agency)¹. Account is also taken of the AER Draft Guidance Document and AER Information Templates issued by the Agency in January 2013².

¹ EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency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

The facility is located at Gorey Business Park, Ramstown Lower, Gorey, Co Wexford. The site encompasses 3,040 m² (0.7 acres) and is accessed by an internal road serving the Business Park.

There are two interconnected steel portal frame buildings, which encompass approximately 1,000 m² and comprise the waste transfer building. The remaining area of the site comprises open yard areas which are paved with concrete and weighbridge. An office is maintained adjacent to the yard.

2.2 Waste Management Activities

The licence allows Greenstar to accept and process up to 30,000 tonnes of waste per annum, comprising commercial/industrial non-hazardous waste, household waste, and construction and demolition wastes. All waste processing takes place inside the waste transfer building, as specified in Condition 8.1 of the licence.

2.2.1 *Waste Types & Processes*

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

- Household Waste (18,000 tonnes),
- Commercial & Industrial and Construction & Demolition (12,000 tonnes).

The key processes carried out at the facility include: -

- Segregation of C&I into different waste streams (paper, cardboard, glass, metal, green waste and wood) for further recovery at an appropriate facility
- Segregation of C&D into clean & dirty waste streams for further recovery purposes,
- Bulking up of domestic wastes (mixed municipal waste & dry mixed recyclables) for further recovery or disposal at an appropriate off-site facility.

Household Waste

Residual or black bin household waste arrives in refuse collection vehicles and is transferred from the vehicles into large bulk transporters for consignment to an appropriately licensed landfill. Source segregated household dry recyclables are stored prior to transfer to permitted/licensed off-site recycling facilities.

Commercial and Industrial Waste

Both mixed and segregated commercial waste is collected from commercial outlets. Commercial waste rich in recyclables (paper, cardboard, glass, metal, green waste and wood) is delivered to the facility both by permitted third party hauliers and by Greenstar vehicles. Plastic, card and paper are stored prior to transfer to a suitable permitted/licensed off-site recycling outlet. Biodegradable wastes suitable for composting which is accepted at the facility are sent to an offsite composting facility. The remaining non-recyclable material is bulked and sent to appropriately licensed landfills.

C&D Waste

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

2.2.2 Plant List

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

Table 2.1 Existing Plant

No.	Plant	Model	Operational Capacity
1	Weighbridge	Avery Berkel	-
1	Track Machine	CAT 321 LC	40t/hr
1	Teleporter	JCB TLT30D	70 t/hr
1	Loader	Volvo L70D	70 t/hr

3. EMISSION MONITORING

Greenstar implements the environmental monitoring programme specified in the Licence to assess the significance of emissions from site activities. The programme specified in the licence includes groundwater, surface water (discharge from holding tank to percolation area), waste water removed off-site and noise monitoring. Surface water runoff is now directed to wastewater and has been incorporated into the waste water monitoring programme as agreed with the Agency. The monitoring locations are shown on Figure 3.1.

The monitoring programme is carried out in accordance with the frequency specified in the Licence. The monitoring results are submitted to the Agency at quarterly intervals. An overview of the monitoring results is presented in this Section, with summary tables included.

3.1 Waste Water Programme

Waste water monitoring is carried out quarterly and the results are included on Table 3.1. Metals and organohalagens are required bi-annually and COD, ammonia and chloride are required quarterly. In Q3 2013 it was not possible to collect a sample as the discharge is rainfall dependant and the location was dry. The results are similar to previous monitoring and indicate the water is suitable for treatment at a wastewater treatment plant.

Table 3.1 Waste Water Results 2013

Parameter	Units	Q1 '13	Q2 '13	Q3 '13	Q4 2013
pH	pH Units	6.93	6.51	Dry	-
Conductivity	mS/cm	12.070	2730	Dry	-
COD	mg/l	6,480	2030	Dry	1,112
Total Ammonia	mg/l	283.07	43.99	Dry	17.14
Chloride	mg/l	2220.9	304	Dry	389
Mercury	mg/l	<0.001	<0.001	Dry	-
Arsenic	mg/l	0.0032	0.007	Dry	-
Boron	mg/l	0.669	-	Dry	-
Cadmium	mg/l	<0.0005	<0.0005	Dry	-
Chromium	mg/l	0.0145	0.059	Dry	-
Copper	mg/l	0.009	<0.007	Dry	-
Nickel	mg/l	0.049	0.017	Dry	-
Selenium	mg/l	<0.003	<0.019	Dry	-
Zinc	mg/l	0.09	0.004	Dry	-
VOC	µg/l	n.d.	n.d.	Dry	-
Toluene	µg/l	18	10.9	Dry	-
Ethylbenzene	µg/l	n.d.	2.2	Dry	-
Trimethylbenzene	µg/l	5	n.d.	Dry	-
SVOC	µg/l	n.d.	n.d.	Dry	-
4-Methylphenol	µg/l	31	1079	Dry	-

n.d. – Not Detected

- Not Required

3.2 Ground Water Monitoring

Schedule C of the Licence requires annual groundwater monitoring. There is an on-site well (MW-1) slightly up-gradient of site activity, which was installed to provide both a potable and process water supply. Testing of the well indicated that it was not suitable for potable use and it is not used for this purpose, but is used for monitoring purposes. The well location is shown on Figure 3.1. Groundwater sampling was conducted by the Environmental Protection Agency (Agency) on the 27th November 2013 and the report was received by Greenstar on the 15th January 2014. Due to an oversight the routine groundwater monitoring scheduled for 2013 was delayed until the 9th January 2014.

There are no emission limits or trigger levels set in the Licence. The Agency requested that groundwater trigger levels be prepared for this monitoring well. These were prepared and were submitted to the Agency for their approval on the 30th June 2008. The proposed trigger levels were not exceeded. 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 levels of conductivity, sodium, sulphate and chloride all exceeded the respective IGV and GTV levels in both samples. Total coliforms and faecal coliforms were not detected. The levels are similar for both the Greenstar and Agency monitoring and are similar to those measured during previous monitoring events. The proposed trigger levels were not exceeded.

The groundwater monitoring results for 2013 are similar to those measured during previous monitoring events and the elevated levels are not related to current site activities. OCM carried out a hydrogeological assessment of the site which was submitted to the Agency in July 2011. The assessment confirmed that the site was formerly occupied by a tannery, where salt was used in the curing process. Tanneries are recognised sources of soil and groundwater contamination and the moderately-elevated levels of sodium, chloride, and conductivity detected are consistent with the historic site use, and are not related to the waste transfer activities. In correspondence from May 2012 the Agency has acknowledged that the report meets their requirements in terms of the level of assessment completed.

Table 3.2 Groundwater Monitoring Results – November 2013 & January 2014

Parameter	Units	MW1 EPA Monitoring Nov 2013	MW1 January 2014	Proposed Trigger Level	GTV	IGV
pH	pH Units	6.0	6.15	6.88	NE	6.5 – 9
Conductivity	mS/cm	3.300	2.940	7.84	0.800- 1.875	1.000
Ammoniacal Nitrogen	mg/l	<0.02	<0.01	-	0.065- 0.175	0.15
Chloride	mg/l	813	801	2579.38	24-187.5	30
Potassium	mg/l	3	5.2	6.84	NE	5
Sodium	mg/l	610	582	1631.25	150	150
Mercury	mg/l	<0.0005	<0.001	-	0.00075	0.001
Arsenic	mg/l	<0.0005	<0.0003	-	0.0075	0.01
Boron	mg/l	0.043	<0.050	-	0.75	1
Cadmium	mg/l	<0.0005	0.0006	-	0.00375	0.005
Chromium	mg/l	<0.0005	0.001	-	0.0375	0.03
Copper	mg/l	0.005	<0.007	-	1.5	0.03
Lead	mg/l	0.007	0.004	-	0.01875	0.01
Nickel	mg/l	0.003	0.007	-	0.015	0.02
Selenium	mg/l	<0.005	0.005	-	NE	NE
Zinc	mg/l	0.038	0.079	-	NE	0.1
TOC	mg/l	<1	5.02	-	NE	NE
Fluoride	mg/l	<1	0.1	-	NE	1
Sulphate	mg/l	240	191	-	187.5	200
ortho Phosphate	mg/l	0.015	<0.025	-	NE	0.03
Nitrate	mg/l	-	<2	-	37.5	25
Nitrite	mg/l	0.005	0.01	-	0.375	0.1
TON	mg/l	1.5	<2	-	NE	NE
Dissolved Oxygen	mg/l	16	4.2	-	NE	NAC
Total Cyanide	mg/l	-	0.0004	-	0.0375	0.01
Total Alkalinity	mg/l	98	100	-	NE	NAC
Total Phenols	mg/l	-	<0.5	-	NE	NE
VOC	µg/l	-	<0.1	-	Various	NE
SVOC	µg/l	-	<0.5	-	Various	NE
Faecal Coliforms	cfu/100ml	0	<1	-	NE	0
Total Coliforms	cfu/100ml	0	<1	-	NE	0

3.3 Noise Monitoring

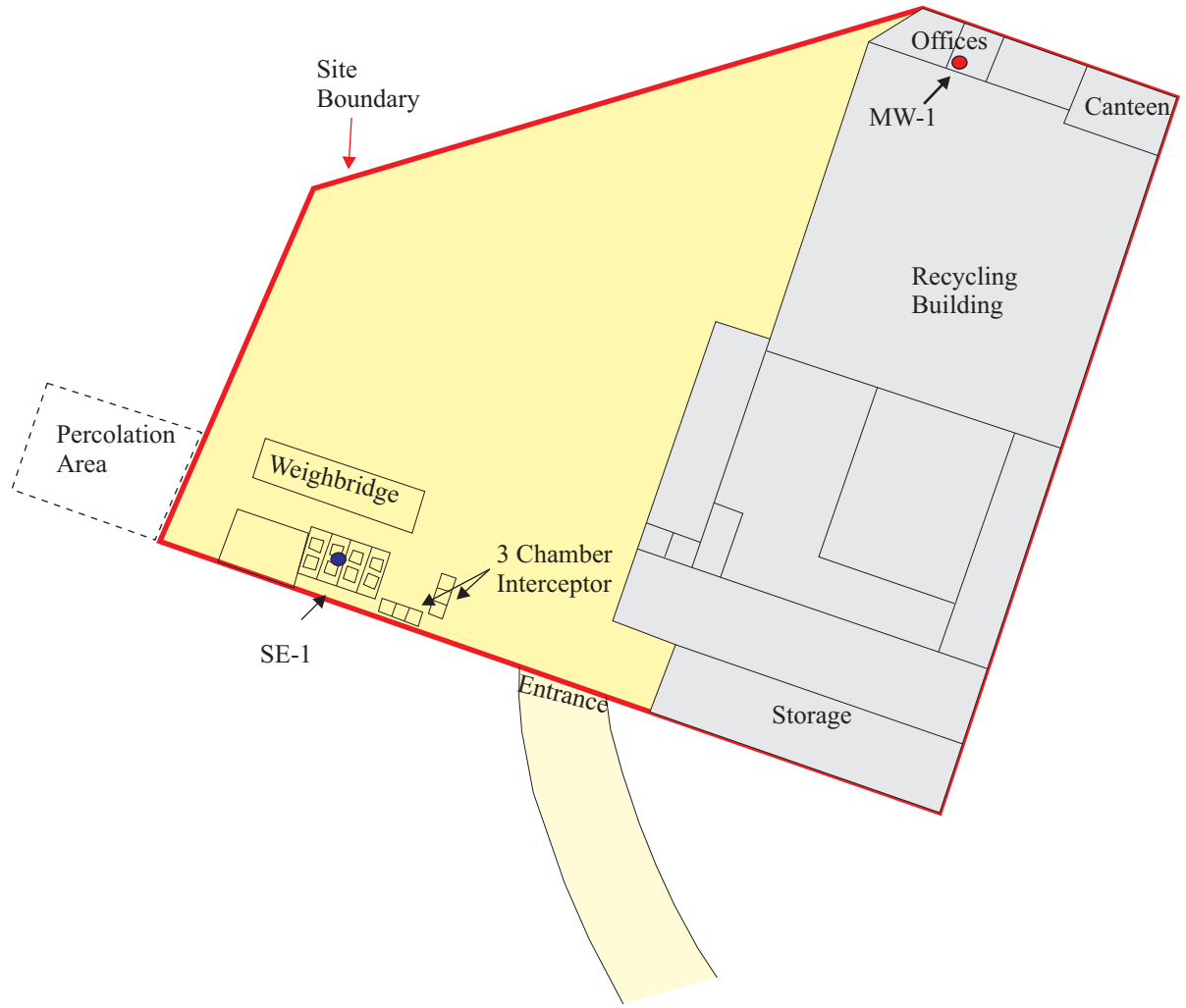
The annual noise survey was conducted in August 2013 at three offsite noise monitoring locations, N-1, N-2 and N-3. The survey concluded that the facility was fully compliant with the licence requirements. A summary of the noise results is shown on Table 3.3.

The licence sets a daytime noise limit of 55 dB with respect to offsite noise sensitive locations. At station N1, the only station not located within the boundaries of Gorey Business Park, no noise emissions were audible from the facility.

Table 3.3 Noise Monitoring Results 2013

Station	Time	L _{Aeq} 30 min dB	L _{AF10} 30 min dB	L _{AF90} 30 min dB	Specific level* dB	Noise audible
N1	1552-1622	67	69	40	<40	Occasional Greenstar loader use faintly audible during infrequent lulls in passing road traffic which dominates noise environment. Distant traffic, bird calls and construction work at nearby dwelling also audible during lulls.
N2	1514-1544	59	61	52	52-55	Intermittent Greenstar loader and truck movements clearly audible, although often masked by intermittent vehicle movements in surrounding commercial park, in addition to regular emissions from nearby commercial premises (particularly external forklift truck at nearby premises). Repeated fly-bys of low altitude aircraft intrusive.
N3	1439-1509	57	58	43	53	Greenstar loader clearly audible and dominant. Emissions from truck movements also audible on yard and through adjacent commercial park. Intermittent vehicle movements in wider park area audible. Intermittent emissions (continuous when present) clearly audible from nearby air conditioning cassette and from pump or similar in nearby building.

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



LEGEND	
	Site Boundary
	Building
	Surface Water Monitoring Point
	Ground Water Monitoring Point



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email: info@ocallaghanmoran.com

CLIENT
Greenstar Ltd.

TITLE
**Monitoring Locations
Gorey**

FIGURE NUMBER
3.1

Scale
Not To Scale

Revision
A

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4. SITE DEVELOPMENT WORKS

4.1 Specified Engineering Works

No Specified Engineering Works were completed during the reporting period. Repairs to roof gutters and the site entrance gate were completed during 2013 as outlined in the Objectives and Targets for 2013.

It is proposed to repair a small part of the concrete yard close to the MRF building entrance, install a mass concrete wall to aid in loading ejector trailers and remove an old weighbridge from the site in 2014.

4.2 Energy Efficiency

An energy audit was carried out in May 2008. The facility is not a significant consumer of resources. Table 4.1 presents an estimate of the resources used on-site from January to December 2013.

Table 4.1 Estimates of Resources Used On-Site

Resources	Quantities 2011	Quantities 2012	Quantities 2013
Diesel	5,200 litres	5,900 Litres	12,526 litres
Odour Control Additive	175 litres	190 Litres	350 litres
Hydraulic Oil	100 litres	100 Litres	280 litres
Electricity	25,000 units	27,000 Units	43,780 units

4.3 Tank and Pipeline Integrity Testing

As per Condition 3.18.5 of the Licence tank and pipeline testing is to be carried out every three years. Testing of the pipeline was completed in March 2012 and was passed fit for purpose. The results were reported in last year's AER.

5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY

Table 5.1 shows the quantities of wastes accepted and consigned for the reporting period. A more detailed description of the wastes received and consigned in 2013 is presented in the PRTR submission in Appendix 1.

The total quantity of waste received was 25,618 tonnes and the total amount consigned was 25,397 tonnes. 221 tonnes remained onsite at the end of the reporting period pending consignment off site. For comparative purposes the amounts of waste received and consigned from 2006 to 2012 are presented in Table 5.2. All the wastes consigned from the site went to authorised recovery and disposal facilities and a copy of the relevant Facility Permit or Waste Licences retained on site for Agency inspection.

Table 5.1 Waste Received & Consigned 2013

EWC	Description	Waste In	Waste Out
15 01 01	Cardboard Packaging	522	445
15 01 02	Plastic Packaging	1	-
15 01 06	Mixed Packaging	3,623	3,495
15 01 07	Glass Packaging	-	20
17 01 07	Concrete, Bricks, Tiles & Ceramics		332
17 02 01	Wood	79	
17 05 04	Soil & Stones	2	
17 09 04	Mixed C&Dt	310	21
19 12 10	Combustible waste	31	
20 01 01	Cardboard & Paper	4	
20 01 08	Biodegradeable kitchen & canteen waste	17	
20 01 38	Wood	17	
20 01 39	Plastic	45	
20 01 40	Metal	7	
20 02 01	Biodegradable waste	1	17
20 03 01	MSW	4	
20 03 01	Mixed Dry Recyclables	16,299	17,557
20 03 03	Street Cleaning	701	684
20 03 07	C&I Dry Mixed	3,955	2,816
	Total Received/Consigned	25,618	25,397
	Total Recovered		13,024
	Total Disposed		12,373
	Recovery Rate		51.28%

Table 5.2 Previous Years Waste Received and Consigned

	2012	2011	2010	2009	2008	2007	2006
Total Received	21,756	11,496	11,651.00	13,476.60	15,885.19	18,978.75	23,944.64
Total Consigned	21,418	11,235	11,572.46	13,665.99	16,036.83	19,780.56	25,051.15
Total Recovery	6,664	4,027	4,213.93	3,614.32	7,421.29	9,229.13	15,895.52
Total Disposed	14,753	7,208	7,358.53	10,051.67	8,615.54	10,551.43	9,155.63
Recovery Rate	31%	35.8%	36.41%	26.4%	46.28%	46.66%	63%

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There were no incidents during the reporting period.

6.2 Register of Complaints

Greenstar maintains a register of complaints received in accordance with Condition 11.9 of the waste licence. No complaints were received in 2013 relating to operational issues or environmental performance.

7. ENVIRONMENTAL DEVELOPMENT & CONTROL

7.1 Environmental Management Programme Report

Greenstar have implemented an Integrated Management System (IMS) in accordance with the requirements of Occupational Health and Safety Assessment Series (OHSAS) 18001:2007 and International Standard Organisation (ISO) 14001:2004 in order to manage the Health, Safety and Environmental performance of their business and to control health and safety risk and to minimise their environmental aspects and impacts.

The IMS has been developed for the achievement of continual improvement taking into the requirements of the Waste Licence Conditions. Greenstar has prepared and effectively implement documented procedures and instructions in accordance with the requirements of both the OHSAS 18001:2007 and ISO 14001:2004. The site was accredited to both Standards in June 2012 and this accreditation was retained in July 2013.

As part of this IMS, Greenstar has developed a list of environmental, management, operating and maintenance procedures, details of which are outlined in Appendix 2. The schedule of Objectives and Targets, including their status for 2013 (Table 7.1), as well as the proposed Objectives and Targets for 2014 (Table 7.2) are presented below.

7.1.1 Schedule of Objectives 2013

The objectives that were achieved during this reporting period are outlined in Table 7.1.

7.1.2 Schedule of Objectives 2014

A schedule of targets and objectives for 2014 has been set by the management of the facility. These objectives are outlined in Table 7.2.

7.2 Management Structure

Details of the site management structure are given below.

Name: Denis Mullally

Responsibility: General Manager

Experience: 9 years experience

Name: Andrew Rinkulis

Responsibility: Operations Supervisor

Experience: FÁS course completed 2008. 12 years waste management experience

Name: Thomas O'Leary

Responsibility: Operative / Machinery / Loader / Driver

Experience: 9 years experience

Table 7.1 Schedule of Objective and Targets 2013

N o	Objective	Target	Responsibility	
1.	Infrastructure	Remove old half weighbridge	Site Management	Tc
2.	Infrastructure	Replace/repair roof gutters	Site Management	
3.	Infrastructure	Paint and repair Entrance gate to site	Site Management	
4.	Nuisance Control Procedures	Continually review and assess all nuisance control procedures to ensure minimal impact on the surrounding area.	Site Management	
5.	Pollution Prevention	Strive to ensure that monitoring results comply with the licence limits and investigate any exceedances of emission limit values.	Site Management	
6	Waste Storage	Review waste wood processing & storage practices taking account of the recent Agency Position Paper on the Management of Wood Waste	Site Management	
7	Odour Management	Compile an Odour Management Plan for the facility and include it on the training matrix referred to in Objective 1	Site Management	
8	Environmental Liabilities	Commission the completion of an ELRA in 2013	Site Management	

Table 7.2 Schedule of Objective and Targets 2014

No	Objective	Target	Timescale	Responsibility
1	Infrastructure	Remove old half of weighbridge	Q2 2014	Site Management/EHS
2	Infrastructure	New loading pit mass concrete wall for loading ejector trailers	Q1 2014	Site Management/EHS
3	Infrastructure	Replace broken concrete in the yard area in front of shed main entrance	Q2 2014	Site Management/EHS
4	Nuisance Control procedures	Continually review and assess all nuisance control procedures to ensure minimal impact on the surrounding area.	Ongoing	Site Management/EHS
5	Infrastructure	Fit automatic barrier at weighbridge at entrance to site	Q3 2014	Site Management/EHS
6	Development and adoption of Fire Prevention Procedure at the facility	Reduce risk of fire and enable early detection	Q2 2014	Site Management/EHS
7	Review of Emergency Response Plan to incorporate fire prevention procedure and new structure	Revision of Plan and additional training for site personnel	Q2 2014	Site Management/EHS
8	Achieve re-certification to ISO 14001 and OHSAS 18001 standard	3 year certification period expires in 2014. The facility requires re-certification.	Q-3/Q-4 2014	Site Management/EHS
9	Develop and maintain traffic management plan at the facility	Review of all on-site traffic management	Q-2/Q-3 2014	Site Management/EHS
10	Environmental Training of Facility Staff	Update training presentation and ensure training of key managerial staff	Q-2/Q-3 2014	Site Management/EHS
11	Site Signage	Facility Notice Boards to be replaced to reflect new ownership	Q1 2014	Site Management/EHS

7.3 Communications Programme

Condition 2.2.2.7 requires the establishment of a Communications Programme. Greenstar is committed to setting the standard in waste management and ensuring environmental compliance in all operations. In addition, Greenstar's updated Environmental and Health & Safety Policy makes a specific commitment to ensuring that the policy itself and records are available to the public and interested parties.

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

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

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

7.4 Nuisance Control

Greenstar has contracted Prokill Ireland South East Ltd (PSE) to carry out vermin inspections at the facility. PSE Ltd visit the facility monthly and inspect for vermin and inspect and maintain the 9 bait boxes and 4 mice boxes on the site. The facility has not had any problem with fly infestations, but should a problem occur, this can be dealt with by PSE Ltd on a call out basis.

7.5 Water Demand

The only water used on the site is for sanitary purposes in the toilets (2 No. staff), the canteen and occasionally for the odour suppression system. The volume of odour suppressants used in 2012 was 190 litres. The volume of water used at the facility was 350 litres in 2013 which is considered small.

7.6 Waste Generated On-site

The facility is manned by two full-time staff and therefore does not generate a large amount of canteen or office waste. All waste generated is source separated and removed off site for recycling or disposal.

7.7 Pollution Emission Register

The Pollution Emission Register (PER) has been replaced by the European Pollutant Release and Transfer Register Regulation (EC) No. 166/2006. A copy of the information submitted to the Agency via the web-based data reporting system is included in Appendix 1.

7.8 Financial Provision & Measures to Minimise Potential Environmental Damage

A Decommissioning Management Plan (DMP) and Environmental Liabilities Risk Assessment (ELRA) including Financial Provision (FP) were submitted to the Agency in 2013 as part of the transfer of the licence which occurred in Q1 2014. Both the DMP and ELRA have been approved by the Agency.

The facility has an Environmental Management Programme (EMP) in place. The EMP serves as a guidance document for facility staff and describes operational control and management practices that are applied at the facility. The EMP is also the core element of the Environmental Management System (EMS) for the facility and is designed to ensure that management of site activities complies with regulatory requirements and best practice. The EMS includes a detailed Emergency Response Procedure which sets out the steps to be taken in the event of an incident at the facility with the potential to cause environmental damage. Greenstar also implements a comprehensive monitoring programme which will highlight any potential environmental incidents with the potential to cause environmental damage.

8. OTHER REPORTS

No other reports were requested by the Agency for inclusion in the AER during the reporting period.

APPENDIX 1

European Pollutant Release and Transfer Register



Environmental Protection Agency

[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.18

REFERENCE YEAR	2013
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1. FACILITY IDENTIFICATION

Parent Company Name	Starrus Eco Holdings Limited
Facility Name	
PRTR Identification Number	W0220
Licence Number	W0220-01

Waste or IPPC Classes of Activity

No.	class_name
	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.2	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.11	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.12	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.
3.13	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.
4.13	4.3 Recycling or reclamation of metals and metal compounds.
4.4	4.4 Recycling or reclamation of other inorganic materials.
Address 1	Ramstown
Address 2	Gorey
Address 3	Co Wexford
Address 4	
	Wexford
Country	Ireland
Coordinates of Location	-6.30814 52.6661
River Basin District	IESE
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Malcolm Dowling
AER Returns Contact Email Address	malcolm.dowling@greenstar.ie
AER Returns Contact Position	Group Compliance Manager
AER Returns Contact Telephone Number	012947976
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	2
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

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

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

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. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	
--	--

This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0220 | Facility Name : | Filename : W0220_2013.xls | Return Year : 2013 |

31/03/2014 17:01

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:	0				
Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used		Facility Total Capacity m3 per hour
			Method Code	Designation or Description	
	Total estimated methane generation (as per site model)	0.0			N/A
	Methane flared	0.0			0.0 (Total Flaring Capacity)
	Methane utilised in engine/s	0.0			0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR# : W0220 | Facility Name : | Filename : W0220_2013.xls | Return Year : 2013 |

31/03/2014 17:03

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

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

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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : W0220 | Facility Name : | Filename : W0220_2013.xls | Return Year : 2013 |

31/03/2014 17:03

SECTION A : PRTR POLLUTANTS

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

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

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

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

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

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR# : W0220 | Facility Name : | Filename : W0220_2013 .xls | Return Year : 2013 |

31/03/2014 17:04

SECTION A : PRTR POLLUTANTS

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

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

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

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

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR#: W0220 | Facility Name: | Filename: W0220_2013.xls | Return Year: 2013 |

31/03/2014 17:05

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste: Name and Licence/Permit No of Next Destination Facility	Non-Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste: Address of Next Destination Facility	Non-Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used							
Within the Country	15 01 01	No	445.0	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	Greenstar Bray,W0053-03		Fassaroe,Bray,..Co		Wicklow,Ireland	
Within the Country	15 01 07	No	20.0	glass packaging	R13	M	Weighed	Offsite in Ireland	Glassco,WFP KE-08 0957		Naas,..,Kildare,Ireland			
Within the Country	17 01 07	No	332.0	mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	R13	M	Weighed	Offsite in Ireland	Chi Environmental Ltd.,WMP 023/2007		Granagh,Kilmacow,..Co.		Kilkenny,Ireland	
Within the Country	17 09 04	No	21.0	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R13	M	Weighed	Offsite in Ireland	Ballymount,W0238-01		Merrywell,Ballymount rd		Ir,Dublin12,..,Ireland	
Within the Country	20 01 40	No	16.0	metals	R4	M	Weighed	Offsite in Ireland	Molloys,WP/08/14B		Enniscorthy,..,Wexford,Ireland			
Within the Country	20 03 01	No	21.0	mixed municipal waste	R3	M	Weighed	Offsite in Ireland	O' Toole Composting,WFP-CW-10-0003-01		Ballinrane,Fenagh,Co		Carlow,..,Ireland	
Within the Country	20 03 01	No	9598.0	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Greenstar		Ballynagran		Landfill,..,Wicklow,Ireland	
Within the Country	20 03 01	No	2055.0	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Ballynagran,W0165-02		Landfill,..,Wicklow,Ireland			
Within the Country	20 03 01	No	1134.0	mixed municipal waste	R1	M	Weighed	Offsite in Ireland	Bord na Mona Drehid		Carbury,..,Co Kildare,Ireland		Carranstown,Duleek,..,Co. Meath,Ireland	
Within the Country	20 03 01	No	2637.0	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Indaver IWMF ,W0167-02		Robinhood Industrial Estate,Robinhood		Road,Ballymount,Dublin 22,Ireland	
Within the Country	20 03 01	No	1681.0	mixed municipal waste	R3	M	Weighed	Offsite in Ireland	Oxigen Environmental Ltd.,W0152-03		Merrywell,Ballymount rd		Ir,Dublin12,..,Ireland	
Within the Country	20 03 01	No	43.0	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Ballymount,W0238-01		Ballinrane,Fenagh,Co		Carlow,..,Ireland	
Within the Country	20 03 03	No	102.0	street-cleaning residues	D5	M	Weighed	Offsite in Ireland	O' Toole Composting,WFP-CW-10-0003-01		Bord na Mona Drehid		Carbury,..,Co Kildare,Ireland	
Within the Country	20 03 03	No	582.0	street-cleaning residues	D5	M	Weighed	Offsite in Ireland	Landfill,W0201-03		Ballynagran		Landfill,..,Wicklow,Ireland	
Within the Country	20 03 07	No	19.0	bulky waste	D5	M	Weighed	Offsite in Ireland	Ballynagran,W0165-02		Landfill,..,Wicklow,Ireland			
Within the Country	20 03 07	No	1996.0	bulky waste	R13	M	Weighed	Offsite in Ireland	Bord na Mona Drehid		Carbury,..,Co Kildare,Ireland		Fassaroe,Bray,..Co	
Within the Country	15 01 06	No	3287.0	mixed packaging	R13	M	Weighed	Offsite in Ireland	Landfill,W0201-03		Wicklow,Ireland		Fassaroe,Bray,..Co	
Within the Country	15 01 06	No	211.0	mixed packaging	R13	M	Weighed	Offsite in Ireland	Greenstar Bray,W0053-03		Robinhood Industrial Estate,Robinhood		Road,Ballymount,Dublin 22,Ireland	
Within the Country	20 01 40	No	1.0	metals	R13	M	Weighed	Offsite in Ireland	Oxigen Environmental Ltd.,W0152-03		Blessington,..			
Within the Country	20 03 07	No	759.0	bulky waste	R13	M	Weighed	Offsite in Ireland	Multi Metals Recycling LTD,WPF-WW-09-0014-01		Wicklow,..,Ireland		Merrywell,Ballymount rd	
Within the Country	20 03 07	No	17.0	bulky waste	D5	M	Weighed	Offsite in Ireland	Ballymount,W0238-01		Ir,Dublin12,..,Ireland		Baltinglass,..,Co.	
Within the Country	20 03 07	No	25.0	bulky waste	R13	M	Weighed	Offsite in Ireland	Rampere Landfill,W0066-03		Wicklow,Ireland			
Within the Country	20 03 07	No	388.0	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Thorntons Waste		kilmainhamwood,Kells,Meath			
Within the Country	20 03 01	No			R13	M	Weighed	Offsite in Ireland	Diposal,W0195-01		..,Ireland			
Within the Country	20 03 01	No			R13	M	Weighed	Offsite in Ireland	GES Limerick,.		..,..,Limerick,Ireland			

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

[Link to previous years waste data](#)

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

[Link to Waste Guidance](#)

APPENDIX 2

Procedures List



Doc. No.: Control	Revision No.: As Shown	Issue Date: As Shown
Approved By:	Malcolm Dowling – Group Environmental Manager Oliver Callan – Group H&S Manager	Page 1 of 5

Integrated Procedures - IP

IP-01	Document & Record Control Procedure	Rev 01, 05/07/10
IP-02	Health & Safety Risk Assessment Procedure	Rev 01, 05/07/10
IP-03	Environmental Aspects & Impacts Procedure	Rev 02, 09/09/13
IP-04	Legal & Regulatory Requirements Procedure	Rev 02, 09/09/13
IP-05	Objectives, Targets & Management Programmes Procedure	Rev 02, 09/09/13
IP-06	Competence, Training & Awareness Procedure	Rev 03, 15/04/13
IP-07	Communication & Consultation Procedure	Rev 01, 05/07/10
IP-08	Monitoring, Measurement & Improvement Procedure	Rev 01, 05/07/10
IP-09	Evaluation of Compliance Procedure	Rev 02, 15/09/11
IP-10	Non Conformances, Corrective/Preventive Actions Procedure	Rev 03, 01/02/11
IP-11	Internal Audit Procedure	Rev 03, 28/05/12
IP-12	Management Review Procedure	Rev 01, 05/07/10
IP-13	Control of Contractors/Visitors Procedure	Rev 03, 08/06/12
IP-14	Health & Safety & Environmental Monitoring	Rev 02, 29/10/10
IP-15	Emergency Preparedness & Response Procedure	Rev 02, 01/02/11
IP-16	Accident Prevention Procedure	Rev 03, 30/06/13

Safety Procedures - SP

SP-01	Permit to Work Procedure	Rev 02, 03/05/12
SP-02	Maintenance & Calibration Procedure	Rev 03, 04/04/11
SP-03	Mobile Plant Procedure	Rev 01, 05/07/10
SP-04	Fork Truck Procedure	Rev 01, 05/07/10
SP-05	Operation of Fixed Plant Procedure	Rev 01, 05/07/10
SP-06	Lock Out / Tag Out Procedure	Rev 01, 05/07/10
SP-07	Health & Safety Notification Procedure	Rev 01, 05/07/10
SP-08	Motor Claim Notification Procedure	Rev 01, 01/02/11
SP-09	MSW Shredder routine Maintenance & Clearing of Blockages Procedure (SCGT)	Rev 01, 01/12/11
SP-10	Weighbridge & Tipping Procedure (SCGT)	Rev 01, 01/12/11
SP-11	Cleaning of Washing Bay (Greenogue)	Rev 01, 05/05/12
SP-12	Ballymount CRF Safe Systems of Work	Rev 01, 23/09/13



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Environmental Procedures - EP

EP-01	Office Waste & Energy Management Procedure	Rev 01, 05/07/10
EP-02	Decommissioning and Aftercare Procedure	Rev 02, 14/09/11
EP-03	Environment Communications Procedure	Rev 03, 16/10/13
EP-04	Waste Permits & Licences Procedure	Rev 01, 05/07/10
EP-05	Waste Acceptance Procedure	Rev 01, 05/07/10
EP-06	Unacceptable Waste Procedure	Rev 01, 05/07/10
EP-07	Waste & Material Storage Procedure	Rev 01, 05/07/10
EP-08	Waste Processing Procedure	Rev 01, 05/07/10
EP-09	Site Infrastructure Procedure	Rev 01, 05/07/10
EP-10	Nuisance Management Procedure (Site Specific)	(Site Specific)
EP-11	Civic Amenity Site Procedure	Rev 01, 05/07/10

Doc. No.: Control	Revision No.: 02	Issue Date: 1 st February 2011
Approved By:	Malcolm Dowling – Group Environmental Manager Oliver Callan – Group H&S Manager	Page 3 of 5

Amendment History

Date	Amendment No.	Procedure No:	Revision No:	Comment	Authorised By
05.07.10	01	All	01	Initial Issue	M.D & O.C
13.09.10	02	EP-03	02	Issue of Incident Reports	M.D
20.09.10	03	IP-10	02	Env issues not logged on WIMS Database	M.D
29.10.10	04	IP-13	02	Use of M&M equipment by contractors	M.D & O.C
29.10.10	05	IP-14	02	Use of M&M equipment by contractors	M.D & O.C
29.10.10	06	SP-02	02	Inclusion of Maintenance Schedule	M.D & O.C
05.11.10	07	IP-04	02	Inclusion of other requirements	S.B & O.C
01.02.11	08	SP-08	01	Inclusion of new procedure	O.C
01.02.11	09	IP-10	03	Inclusion of SP-08	O.C
01.02.11	10	IP-15	02	Removal of SF-022	O.C
01.02.11	11	Contents	As shown	EP-10 Site Specific	M.D & O.C
01.02.11	12	IP-06	02	Addressing Agency Staff needs	M.D & O.C
01.02.11	13	Circ List	02	Amendment to document control	M.D & O.C
04.04.11	14	SP-02	03	Inclusion of Site Specific Maintenance schedules	O.C
07.06.11	15	IP-11	02	Inclusion of H&S & Env Internal Audit Schedules	M.D & O.C
14/09/11	16	EP-02	02	Inclusion of decommissioning of plant/equipment	S.B
15/09/11	17	IP-09	02	Inclusion of Statutory Inspections	O.C
01/12/11	18	SP-09	01	Inclusion of new procedure for SCGT	O.C
01/12/11	19	SP-10	01	Inclusion of new procedure for SCGT	O.C
03/05/12	20	SP-01	02	Amendment to remove SF 028	O.C
05/05/12	21	SP-11	01	Inclusion of a new procedure for Greenogue	O.C
28/05/12	22	IP-11	03	General Amendments to internal audit procedure	M.D & O.C
08/06/12	23	IP-13	03	Grammatical amendment	M.D & O.C
15/04/13	24	IP-06	03	Agency staff – sign-off record sufficient proof of training. TMS optional	M.D & O.C

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Approved By:	Malcolm Dowling – Group Environmental Manager Oliver Callan – Group H&S Manager	Page 4 of 5

Date	Amendment No.	Procedure No:	Revision No:	Comment	Authorised By
30/06/13	25	IP-16	1	Inclusion of new procedure	M.D.
09/09/13	26	IP-03	2	Use of Scannell Software Solutions (Enviromanager) instead of IF-03A	M.D & O.C
09/09/13	27	IP-04	3	Use of Scannell Software Solutions (Enviromanager) instead of IF-03A	M.D & O.C
09/09/13	28	IP-05	2	Use of Scannell Software Solutions (Enviromanager) instead of IF-03A	M.D & O.C
16/10/13	29	EP-03	3	Introduction of EPA ALDER Portal	K.B
23/09/13	30	SP-12	1	Introduction of SP-12O.C	



Doc. No.: Control	Revision No.: 02	Issue Date: 1st February 2011
Approved By:	Malcolm Dowling – <i>Group Environmental Manager</i> Oliver Callan – <i>Group H&S Manager</i>	Page 5 of 5

Circulation List

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