Granary House Rutland Street Cork



ANNUAL ENVIRONMENTAL REPORT

GREENSTAR ENVIRONMENTAL SERVICES LIMITED

MATERIALS RECOVERY FACILITY

SIX CROSS ROADS BUSINESS PARK

WATERFORD

LICENCE NO. W0177-03

JANUARY 2013 – DECEMBER 2013

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7th April 2014

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1. INTRODUCTION

This is the 2013 Annual Environmental Report (AER) for the Greenstar Environmental Services Ltd. (GES), Materials Recovery Facility (MRF) at Six Cross Roads Business Park, Waterford (W0177-03) and covers the reporting period January 2013 to December 2013. During the reporting period, GES 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 and the report format follows guidelines set in the "Guidance Note for Annual Environmental Report" issued by the Environmental Protection Agency (Agency)¹. Cognisance was also taken of the Agency AER Draft Guidance Document and AER Information Templates issued by the Agency in January 2013².

¹ EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency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

The subject site is located at Carriganard, Six Cross Roads approximately 3.5 km southwest of Waterford City Centre. It is in an industrial area on the outskirts of the City. The area to the west of the facility is mainly farmland. The nearest residential area is the Ballybeg housing estate, which is approximately 500 m to the north. The facility encompasses approximately 9,300 m² and is accessed by a county road (Green Road) off the N25 National Primary Route. This county road, which forms the western site boundary, is a cul-de-sac which is used solely for access to the facility. The southern and eastern boundaries are formed by the Six Cross Roads Business Park and the northern boundary by the closed Waterford City Compost Facility.

There are two waste processing buildings. The Main Building houses the offices and Commercial and Industrial waste (C&I) recycling activities and bulk waste transfer. The Lean-To, which is to the west of the Main Building, is used for covered timber, green waste and bulky waste processing and additional bale storage. The open yard areas are paved and are used for external waste storage bays (C&D, glass, and metals), skip storage, truck parking and a vehicle washing area.

2.2 Waste Management Activities

The facility is licensed to accept and process 80,000 tonnes of waste per annum, comprising household waste, construction and demolition waste (C&D) and commercial and industrial waste (C&I).

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 (25,000 tonnes)
- Commercial & Industrial (70,000 tonnes)
- Construction & Demolition (5,000 tonnes)

No hazardous wastes are accepted. The maximum amount of each waste type accepted, may be altered with the prior agreement of the Agency as long as the total maximum tonnage is not exceeded.

The key processes carried out at the facility include: -

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

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 baled and stored prior to transfer to off-site permitted/licensed recycling facilities.

Commercial and Industrial Waste

Both mixed and segregated commercial waste is collected from commercial sources. Commercial waste containing recyclable material (paper, cardboard, glass, metal, green waste and wood) is delivered to the facility both by permitted third party hauliers and by GES vehicles. Plastic, card and paper are baled and 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. Shredding of hard plastics (PVC and Polypropylene) takes place on site for transport as raw materials for plastic goods manufacturers.

C&D Waste

Waste loads include mixed construction and demolition wastes and soil and stone. The material arrives in skips of varying sizes. The 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.

No.	Plant	Model	Operational Capacity tpd	Standby Capacity tj
1	Loading Shovel	Volvo L90F	200	120
2	Excavating Grab	Caterpillar 312	150	100
3	Fork Lift	Jungheinric	150	100

Table 2.1 Plant List -

tpd

3. EMISSION MONITORING

The monitoring specified in the licence includes surface water, wastewater, groundwater, dust and noise monitoring. The monitoring locations are shown on Figure 3.1. The monitoring results are included in reports submitted to the Agency at quarterly intervals and an overview of the monitoring completed in 2013 is presented in this Section.

3.1 Surface Water Monitoring

The facility's surface water drainage system collects run-off from paved areas and roof rainwater and discharges at separate locations to a culverted stream serving the Business Park.

The original agreed monitoring locations were SW-1, SW-2, SW-3 and SW-4. In June 2012 the Agency agreed to replace SW-1 and 2 with SW-5, which is the point at which the combined discharge point to the stream for the storm sewers from the east and south of the site and the sewers that take run-off from the Main Recycling Building and Offices. SW-3 is downstream of an oil interceptor on the drain that takes runoff from the western yard, and is a separate discharge point. SW-4 is at the discharge point to the stream for run-off roof of the Lean To in the north western section of the site. The locations are shown on Figure 3.1.

The monitoring results are shown on Tables 3.1 to 3.6. Due to dry conditions in some months no surface water samples were obtained. The results include the proposed warning and action levels developed by GES in Q1 2010. There was just one exceedance of the warning for ammonia in October 2013 at SW-3, but no breach of the action levels throughout 2013.

There was significant focus on materials storage and drain maintenance at the facility during 2012 and 2013 which has led to an improvement in the surface water discharge quality over this time. Overall results for surface water at each monitoring location have markedly improved between 2011 and 2013.

Table 5.15011ace water wontoning Results 50 January 2015
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Parameter	Units	SW-3	SW-4	SW-5	Warning Levels	Action Level
Ammonia	mg/l	0.19	0.33	0.23	2.0	4.4
Conductivity	mS/cm	0.327	0.065	0.279	0.466	0.774

Parameter	Units	SW-3	SW-4	SW-5	Warning Levels	Action Level
Ammonia	mg/l	0.40	0.33	0.88	2.0	4.4
Conductivity	mS/cm	0.224	0.076	0.324	0.466	0.774

Table 3.2Surface Water Monitoring Results 22nd March 2013

Table 3.3Surface Water Monitoring Results May 2013

Parameter	Units	SW-3	SW-4	SW-5	Warning Levels	Action Level
Ammonia	mg/l	0.48	0.05	1.9	2.0	4.4
Conductivity	mS/cm	0.443	0.111	0.379	0.466	0.774

Table 3.4	Surface	Water	Monitoring	Results –	July 2013
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Parameter	Units	SW-3	SW-4	SW-5	Warning Levels	Action Level
Ammonia	mg/l	0.42	1.15	2.0	2.0	4.4
Conductivity	mS/cm	0.489	0.028	0.417	0.466	0.774

Table 3.5Surface Water Monitoring Results – September 2013

Parameter	Units	SW-3	SW-4	SW-5	Warning Levels	Action Level
Ammonia	mg/l	0.16	0.9	1.32	2.0	4.4
Conductivity	mS/cm	*	*	*	0.466	0.774

*Erroneous Laboratory Result

Table 3.6	Surface Water Monitoring Results – October 20	13
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Parameter	Units	SW-3	SW-4	SW-5	Warning Levels	Action Level
Ammonia	mg/l	3.17	<1	<1	2.0	4.4
Conductivity	mS/cm	0.285	< 0.132	0.191	0.466	0.774

3.2 Foul water Monitoring

The wastewater discharge (vehicle cleaning and run off from hard-standing at the entrance to the main recycling building) to the municipal sewer was monitored at quarterly intervals up to Q1 2013. The Agency issued a Technical Amendment (TA) of the licence in Q1 2013 allowing for an increase in the detergents ELV and the volume of waste water allowed to be discharged to the sewer. The TA also increased the monitoring frequency from quarterly to monthly. The wastewater passes through a petrol/oil interceptor before discharging to the Six Cross Roads Business Park sewer before ultimately connecting to the municipal sewer. Flow is measured using a continuous flow meter.

Due to an oversight no sample was collected in Q3 2013. It was not possible to collect representative samples of the waste water discharge in November or December 2013. The waste water generated within the Six Cross Roads Business Park is pumped to the municipal sewer. The pump broke down in late October/November and due to the layout of the system caused waste water to back up into the Greenstar system. Waste water was vacuum tankered to a wastewater treatment plant by the landlord of the Business Park while the pump was not operational.

The wastewater sampling is carried out at location FW-1, as shown on Figure 3.1. FW-1 is downstream of the interceptor and the continuous flow meter. The monitoring results are presented in Table 3.7, which also includes the emission limit values (ELV) set in the Licence. The results were all below the ELVs set for grab samples.

Parameter	Units	Q1	Q2	Q3	Q4	Emission Limit	Emission Limit (Grab Sample)*
pH	pH Units	6.22	6.68	-	7.02	6 – 9	6-9
BOD	mg/l	<1	303	-	223	400	480
COD	mg/l	646	400	-	740	1,100	1,320
Total Suspended Solids	mg/l	249	110	-	360	300	360
Oils, Fats & Greases	mg/l	< 0.01	12	-	**	10	12
Surfactants (MBAS)	mg/l	1.0	0.057	_	**	30	36

Table 3.7	Foul water	Monitoring	Results 20	13.
	I our water	monitoring	Results 20	15.

* Condition 4.1.2 (i) For parameters other than pH and temperature, no grab sample value shall exceed 1.2 times the emission limit value.

**Glass bottle Damaged on route to Lab

3.3 Groundwater Monitoring

Groundwater monitoring is not specified in the licence, however monitoring is carried out annually at two monitoring wells (BH-1 and BH-3) as agreed with the Agency. BH-1 is off-site and up-gradient in the adjoining closed Waterford City Council Composting facility (W0234-01) and BH-3 is on-site as shown on Figure 3.1.

There are no emission limits or trigger levels set in the licence and so the results are compared to the Interim Guideline Values (IGV) on groundwater quality published by the Agency and 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 results are shown on Table 3.8 and indicate that there is no evidence that site activities are impacting on groundwater quality. The IGVs or GTVs were not exceeded at either location in April 2013 with the exception of ammonia at BH-3. At this level (0.38mg/l) the ammonia is not considered significant and was below the limit in November 2012. BOD, DRO, oils, fats and greases, DRO, aliphatic hydrocarbons and undecane were not detected in either well. The monitoring carried out in April 2013 showed that the groundwater quality is good.

High levels of suspended solids are present in each well. Based on the borehole logs, the well depths range from 22 to 27m bgl (meters below ground level). BH-1 is exclusively in the subsoils, while BH-3 straddles the subsoils and the bedrock, which is a siltstone. The subsoils in BH-1 are described as very fine grained alluvial deposits, while in BH-3 they are described as sand with small elements of clay. There is a gravel pack around the well pipe but no filter sock on the slotted section. Given the absence of a filter sock and the nature of the subsoils, it is not unexpected that suspended solids present in the groundwater are being drawn into the well pipe during purging. They are naturally occurring, are not indicative of contamination and are of no environmental significance.

Parameter	Units	BH-1	BH-3	IGV	GTV
BOD	mg/l	<1	<1	-	_
Dissolved Oxygen	mg/l	6	8	NAC	-
Oils, Fats & Greases	mg/l	< 0.01	< 0.01	-	-
Total Phosphorus	mg/l	0.839	0.914	-	-
Ammoniacal Nitrogen	mg/l	0.04	0.38	0.12	0.065-
					0.175
Conductivity	mS/cm	0.637	0.515	1.000	1.875
DRO	mg/l	< 0.01	< 0.01	0.01	-
Aliphatic Hydrocarbons	mg/l	< 0.01	< 0.01	-	-
Undecane	mg/l	< 0.01	< 0.01	-	_
Total Suspended Solids	mg/l	3,137	7,536	-	_

Table 3.8Groundwater Monitoring Results – 17th April 2013

3.4 Noise Monitoring

The annual noise survey was conducted in August 2013. The monitoring locations include three boundary locations (N1 - N3) and two off site noise sensitive locations (NS1 and NS2). The survey was conducted when the site was fully operational and confirmed that noise emissions fully complied with the licence and that the facility is not impacting negatively on the nearest sensitive receptors. A summary of the noise results is shown on Table 3.9.

Station	Time	LAeq 30 min	LAF10 30	LAF90 30	Specific	Noise audible
		dB	min dB	min dB	level*	
					dB	
N1	0953-1023	72	74	64	72	Greenstar plant on local yard and in nearest building continuously dominant, including granulator. No other noise audible.
N2	1026-1056	65	68	53	64	Intermittent truck and vehicle movements through Greenstar entrance and weighbridge area dominant. During lulls, plant and granulator in building audible. Frequent emissions from external activity at adjacent plant hire premises significant. No other noise audible.
N3	1101-1131	62	56	46	47	Greenstar plant movements almost continuously audible at low level. Road traffic to W and S also continuously audible and significant. Sporadic passing road traffic on access road dominant when present. Bird song/calls and aircraft.
NS1	1139-1209	55	57	44	<44	Greenstar emissions not specifically discernible in commercial noise slightly audible continuously from commercial estates to SE, which in turn is almost entirely masked by continuous road traffic audible at low level to S and SE. Intermittent local traffic dominant when present. Bird song/calls, aircraft and pedestrian voices.
NS2	1216-1246	64	69	45	<45	No emissions audible from Greenstar or 6CR business park. Frequent passing road traffic dominant. During lulls, distant traffic in several directions audible. Bird song/calls, aircraft and distant dog barking. Grass mower audible at low level at nearby sports pitch from 1243.

Table 3.9Noise Monitoring Results 2013

*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.

3.5 Dust Monitoring

Dust monitoring was carried out on three occasions at three on-site locations (D1, D2 and D3) in June, August and September 2013. The results of the monitoring are included on Table 3.10.

The dust emission limit (350 mg/m²/day) was not exceeded. No complaints relating to dust were received from neighbouring premises during the reporting period.

Dust Emission (mg/m²/day) Sample Location	June 2013	August 2013	September 2013	Emission Limit (mg/m²/day)
D1	76.9	47.3	12.5	350
D2	21	49.4	26.6	350
D3	44.1	69.6	235.8	350

Table 3.10	Dust Monitoring Results 2013
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* - Jar broken in transit to laboratory



4. SITE DEVELOPMENT WORKS

4.1 Engineering Works

No engineering works were planned or carried out in 2013.

4.2 Summary of Resource & Energy Consumption

Table 4.1 presents an estimate of the resources used on-site during the reporting period and in 2012.

Table 4.1Estimate of Resources Used On-Site in 2012 & 2013

Resources	Quantities 2013	Quantities 2012
Diesel (green)	54,901 litres	60,602 litres
Electricity	7228 kwh	289,800 kWh Units
Hydraulic Oil	1250 litres	1,532 litres
AdBlu Diesel Additive	700 litres	1,400 litres
Mains Water	553,000 litres	331,000 litres
Odour Neutraliser	300 litres	400 litres

4.3 Bund Integrity Testing

Condition 3.11.5 of the licence requires that tank and bund testing be carried out at least once every three years. Integrity testing was carried out in October 2011 and the bunds, interceptors and drainage lines were passed fit for purpose. The reports are retained at the facility for Agency inspection.

5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY

Table 5.1 shows the total quantities of waste received and consigned from the facility in 2013. Table 5.2 shows the quantities of waste received and consigned in previous years. A breakdown of the waste types is provided in accordance with the European Waste Catalogue and Hazardous Waste list. A more detailed description of the wastes accepted and consigned is provided in the PRTR submission in Appendix 1.

The total quantity of waste received was 55,232 tonnes. The total waste consigned was 54,523 tonnes. Some wastes remained onsite at the end of the reporting period pending movement offsite in Q1 2014. All the wastes consigned went to authorised recovery and disposal facilities approved by the Agency.

EWC	Description	Waste In	Waste Out
15 01 01	Segregated cardboard & paper	1006	
15 01 01	packaging	4090	8,518
15 01 02	Segregated plastic packaging	2387	489
15 01 03	Segregated wood packaging	18	475
15 01 04	Segregated metal packaging -	7	
15 01 04	aluminium cans	1	18
15 01 05	Segregated tetrapacks	3	
15 01 06	Mixed Packaging	9655	
15 01 07	Glass packaging	558	770
17 02 01	Wood	3	
17 02 02	Glass	7	
17 02 03	Plastic	29	
17.08.02	Gypsum-based construction	162	
17 08 02	material e.g. Plasterboard	102	
17 09 04	Mixed C&D waste	1393	2168
19 08 05	Liquid Waste	4.2	
19 09 02	Interceptor Sludge	13	
19 12 07	Shredded Timber		276
19 12 09	Kitchen and Canteen Waste	8.68	
20 01 01	Paper & cardboard from municipal	1603	715
20 01 02	Glass from municipal sources	120	76
20 01 08	Commercial food waste	4879	909
20 01 11	Textile		0.6
20 01 38	Wood waste from municipal sources (e.g. furniture)	1,382	739
20 01 39	Plastic from municipal sources	109	2,010
20 01 40	Metals from municipal waste	123	162
20 02 01	Green Biodegradable Waste	45	82
20 03 01	Mixed residual waste	18925	29,521
20 03 03	Street-cleaning residues	1,641	1,397
20 03 07 Bulky Waste		8,012	6,197
	Total Received	55232	
	Total Consigned		54,523
	Recovery		43,092
	Disposal		11,431
	Recovery Rate		79%

Table 5.1Waste Received & Consigned 2013

	2012	2011	2010	2009	2008
Total Received	54,627.16	57,592.00	49,011	48,560	52,055
Total Consigned	54,531.76	58,231.15	48,120.34	47,574	52,212
Total Recovered	43,100.65	44,517.00	25,706.16	20,892	20,113
Total Disposed	11,431.11	13,075.00	22,414.18	26,682	32,099
Recovery Rate	79%	76%	53.42%	43.92%	38.52%

Table 5.3Waste Received & Consigned

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There were no reportable incidents in 2013.

6.2 Register of Complaints

GES maintains a register of complaints received at the facility offices. No complaints were received during the reporting period.

7. ENVIRONMENTAL DEVELOPMENT & CONTROL

7.1 Environmental Management Programme Report

GES 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 account the requirements of the Waste Licence Conditions. GES 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 facility is accredited to both standards.

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. An index of procedures used at the facility is included in Appendix 2.

7.1.1 Site Management Structure

Management and Staffing structure: -

Name: Aidan Shanahan

Responsibility: General Manager, South East

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

Name: Tom Walsh

Responsibility: Operations Manager

Experience: Over 11 years experience waste management experience; has completed the FÁS waste management course.

Name: Ivan Cummins

Responsibility: Yard Supervisor

Experience: 28 years experience waste management experience.

7.1.2 Staff Training

Staff training carried out during the year included mainly safety training as well as forklift training and CPC training. Details on staff training are retained on the company's electronic Training Management System (TMS).

7.2 Environmental Management Programme

7.2.1 Schedule of Objectives 2013

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

7.2.2 Schedule of Objectives 2014

The schedule of targets and objectives for 2014 are presented in Table 7.2.

7.3 Communications Programme

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

To this end GES has drawn up a Communications Programme, which details how members of the public are facilitated in accessing and viewing environmental information at the facility. Members of the public who wish to inspect these files may do so ant any reasonable time by making an appointment with the Operations Manager using the telephone number posted on the main facility entrance sign.

7.4 Report Financial Provision

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 Integrated Management System (IMS) in place and the site has achieved external accreditation for its implementation of ISO 14001 and OHSAS 18001, environmental and health and safety management systems. Effective implementation of these systems is the most appropriate way to ensure that mitigation measures achieve the required risk reduction on site. The IMS serves as a guidance document for facility staff and describes operational

control and management practices that are applied at the facility. The IMS is designed to ensure that management of site activities complies with regulatory requirements and best practice. The IMS 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.

7.5 Nuisance Controls

GES has contracted a vermin control company to carry out nuisance control at the facility. Prevent a Pest provide pest control at the facility and also provide for the treatment of insects at the facility if necessary. Daily litter picks and road-sweeping are carried out by yard operators during the course of their daily duties. An odour control system is in place at the facility which can be operated automatically or manually by the Environmental Officer and Operations Supervisor as needed. A site inspection is carried out daily and recorded on the facilities inspection log which is controlled as part of the current Integrated Management System.

7.6 Wastewater Volumes

The volume of wastewater generated during the reporting period was estimated to be 1,056.25 m³. In Q4 2013 the wastewater flow meter was affected by backwash associated with the malfunction of the Business Park sewer pump. The annual wastewater figure is therefore an estimate based on the actual flow readings from January to September 2013.

No	Objective	Target	Timescale	STATUS
1	Awareness and Training	Continue to ensure that appropriate training is carried out specific to all site personnel as per the Company's established Training Matrix.	Q1-Q4 2013	Ongoing
2	Energy & Resource Consumption	Continue to summarise energy and resource usage on a quarterly basis with a view to reducing consumption	Q1-Q4 2013	Ongoing
3	Review and Assess the Effectiveness of Nuisance Control Procedures	Continually review and assess all nuisance control procedures to minimise impact on the surrounding area.	Q1-Q4 2013	Ongoing
4	Pollution Prevention	Strive to ensure that emissions comply with the licence limits and investigate any exceedances of emission limit values.	Q1-Q4 2013	Ongoing
5	Environmental Monitoring	Continue to review the surface water monitoring results to ensure they do not increase. Propose revised trigger levels for ammonia and conductivity for surface water monitoring	Q1-Q4 2013	Ongoing
5	Waste Storage	Review waste wood processing & storage practices taking account of the recent Agency Position Paper on the Management of Wood Waste	Q2 2013	Complete
6	Odour Management	Compile an Odour Management Plan for the facility and include it on the training matrix referred to in Objective 1	Q2 2013	Ongoing
7	Financial Provision	Propose to complete an Environmental Liability Risk Assessment and Decommissioning Plan.	Q1-Q4 2013	Complete

Table 7.1Objectives and Targets for 2013 –

No.	Objective	Target	Timescale	Responsibility
1	Development and adoption of Fire Prevention Procedure at the facilityReduce risk of fire and enable early detection		Q2 2014	Site Management/EHS
2	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
3	Achieve re-certification to ISO 14001 and OHSAS 18001 standard	3 year certification period expires in 2014. The facility requires re-certification.	Q3/Q4 2014	Site Management/EHS
4	Develop and maintain traffic management plan at the facility	Review of all on-site traffic management	Q2/Q3 2014	Site Management/EHS
5	Environmental Training of Facility StaffUpdate training presentation and ensure training of key managerial staff		Q2/Q3 2014	Site Management/EHS
6	Site Signage	Facility Notice Boards to be replaced to reflect new ownership	Q1 2014	Site Management/EHS
7	Energy & Resource Consumption	Continue to summarise energy and resource usage on a quarterly basis with a view to reducing consumption	Ongoing	Site Management/EHS
8	Review and Assess the Effectiveness of Nuisance Control Procedures	Continually review and assess all nuisance control procedures to minimise impact on the surrounding area.	Ongoing	Site Management/EHS
9	Pollution PreventionStrive to ensure that emissions comply with the licence limits and investigate any exceedances of emission limit values.		Ongoing	Site Management/EHS
10	0Site SecurityInstallation of electronic barrier system at site entrance for site security purposes		Q2 2014	Site Management/EHS
11	Ensure Impermeable Hardstanding	Maintenance and repair of site surfaces	Q2 2014	Site Management/EHS
12	Bund & Tank Testing	Integrity Testing of all underground tanks and pipelines	Q1 2014	Site Management/EHS

Table 7.2Schedule of Objective and Targets 2014 –

8. OTHER REPORTS

8.1 European Pollutant Release and Transfer Register Regulation

Under the European Pollutant Release and Transfer Register Regulation (EC) No. 166/2006 GES are required to submit information annually to the Agency. A copy of the information submitted to the Agency via the web-based data reporting system is included in Appendix 1.

APPENDIX 1

European Pollutant Release and Transfer Register



Version 1.1.18

Guidance to completing the PRTR workbook

AER Returns Workbook

REFERENCE YEAR 2013	

1. FACILITY IDENTIFICATION								
Parent Company Name	Starrus Eco Holdings Limited							
Facility Name								
PRTR Identification Number	W0177							
Licence Number	W0177-03							

Waste or IPPC Classes of Activity	
No.	class_name
	Repackaging prior to submission to any activity referred to in a preceding
3.12	paragraph of this Schedule.
	Blending or mixture prior to submission to any activity referred to in a
3.11	preceding paragraph of this Schedule.
	Storage prior to submission to any activity referred to in a preceding
	paragraph of this Schedule, other than temporary storage, pending
3.13	collection, on the premises where the waste concerned is produced.
	Storage of waste intended for submission to any activity referred to in a
	preceding paragraph of this Schedule, other than temporary storage,
4.13	pending collection, on the premises where such waste is produced.
	Recycling or reclamation of organic substances which are not used as
	solvents (including composting and other biological transformation
4.2	processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Carrignard
Address 2	Six Cross Roads
Address 3	Business Park
Address 4	Waterford City
	Waterford
Country	Ireland
Coordinates of Location	-7.14684 52.2345
River Basin District	IESE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
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 Pax Number	0.0
Froduction volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	10
User Feedback/Comments	In releases to wastewater section some levels were greater than 50%
	higher than last year. As the samples are grab samples there can be a
	variation in concentrations throughout the year. All ELVs were complied
	with during the year at the discharge point.
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name						
5(c)	Installations for the disposal of non-hazardous waste						
5(c)	Installations for the disposal of non-hazardous waste						
50.1	General						
3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)							
Is it applicable?	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# : W0177 | Facility Name : | Filename : W0177_2013.xls | Return Year : 2013 |

08/04/2014 12:01

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

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

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

Additional Data Requested from Land	Iditional 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 (Itotal) Köyr 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			Meth	nod Used								
				Designation or	Facility Total Capacity m3	1						
	T (Total) kg/Year	M/C/E	Method Code	Description	per hour	1						
Total estimated methane generation (as per						1						
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						1						
A above)	0.0				N/A	1						

4.2 RELEASES TO WATERS

Link to previous years emissions data

PRTR# : W0177 | Facility Name : | Filename : W0177_2013.xls | Return Year : 2013 |

08/04/2014 12:03

ECTION A : SECTOR SPECIFIC PRTR POL	LUTANTS	Data on an	n 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							
	RELEASES TO WATERS				Please enter all quantit	ies in	this section in KGs			1
PO	LLUTANT							QUANTITY		i
				Method Used						1
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	i
						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

	Please enter all quantities in this section in KGs								
POI	LUTANT						QUANTITY		
				Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
					0	.0	0.0 0.0	0.0	

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

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

	RELEASES TO WATERS				Please enter all quantities i			
POI	LUTANT						QUANTITY	
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					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

08/04/2014 12:03

SECTION A : PRTR POLLUTANTS

OF	MENT OR S	SEWER		Please enter all quantities in this section in KGs					
POLLUTANT			MET	HOD	QUANTITY				
			N	Nethod Used					
No. Annex II	lame	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 POLLUTANT EMISSIONS (as required in your Licence)

	FFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREAT	MENT OR \$	SEWER		Please enter all quantities in this section in KGs					
	POLLUTANT		METH	OD			QUANTITY			
			M	ethod Used						
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year		
303	вор	с	PER	Calculated using flow to sewer over the year. Analysis is ISO accredited	185	5 185.5	0.0	0.0		
306	сор	с	PER	Calculated using flow to sewer over the year. Analysis is ISO accredited	628.6	7 628.67	0.0	0.0		
308	Detergents (as MBAS)	с	PER	Calculated using flow to sewer over the year. Analysis is ISO accredited	0.3	7 0.37	0.0	0.0		
314	Fats, Oils and Greases	с	PER	Calculated using flow to sewer over the year. Analysis is ISO accredited	4.2	3 4.23	0.0	0.0		
240	Suspended Solids	с	PER	Calculated using flow to sewer over the year. Analysis is ISO accredited	253.0	8 253.08	0.0	0.0		

20

4.4 RELEASES TO LAND

Link to previous years emissions data

SECTION A : PRTR POLLUTANTS

		Please enter all quantities	in this section in KG	5			
POLLUTANT			METH	OD			QUANTITY
			Method Used				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					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)

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

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

Image: Province Image: Pr				Please enter a	Il quantities on this sheet in Tonnes								0
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To Other Countrie 15 01 02 No 12.0 plastic packaging R13 N Weighed Abroad MMP E Bray, manual construction International construction Within the Country 15 01 03 No 394.0 wooden packaging R13 N Weighed Offstein infeland WMP Garay, mieland Iauvestown Commel (Co Within the Country 15 01 03 No 27.0 wooden packaging R13 N Weighed Offstein infeland WMP Garay, mieland Iauvestown Commel (Co Within the Country 15 01 03 No 12.0 metallic packaging R13 N Weighed Offstein infeland Moley Metals, WPO8/14b Wooden, Jauvestowe Co Within the Country 15 01 04 No 12.0 metallic packaging R13 N Weighed Offstein infeland Moley Metals, WPO8/14b Wooden, Jauvestowe Co Within the Country 19 12 12 No 708.0 11 R13 M Weighed Offstein infeland Mel reservourties	Within the Country	15 01 02	No	15.0	plastic packaging	R13	м	Weighed	Offsite in Ireland	IRF/AG117/11	Ballycoolin Dublin Ireland		
Control	To Other Countries	15 01 02	No	12.0	plastic packaging	R13	M	Weighed	Abroad	MRF Bray.	Ireland		
Within the Country 15 01 03 No 984.0 wooden packaging R13 M Weighed Offsie in reland WP-00-02 Tipperay_initiand Within the Country 15 01 03 No 22.0 wooden packaging mide construction and demolition wastes R13 M Weighed Offsie in reland WR1 rosemount. Ballycarney_Ennisconthy_Co. Within the Country 17 09 04 No 12.0 metallic packaging mide construction and demolition wastes R13 M Weighed Offsie in Ireland WR1 rosemount. Grannagh_Klimacow_/Co Within the Country 17 09 04 No 1457.0 09 02 and 17 09 03, m rotenhanical treatment of materiably from mechanical treatment of materiable fro					P					Clonmel Waste Disposal Ltd	Lawlesstown ,Clonmel ,Co		
Within the Country 15 01 03 No 27.0 wooden packaging P13 M Weighed Offsie in Ireland Mr rosemount. irelant- Balvarret, Fland Within the Country 15 01 04 No 1.2.0 metallic packaging P13 M Weighed Offsie in Ireland Moloy Metals, WP08/14b Wextord, Ireland Within the Country 7 09 04 No 12.0 metallic packaging P13 M Weighed Offsie in Ireland Moloy Metals, WP08/14b Wextord, Ireland Within the Country 7 09 04 No 14.070.00 92 and 17.00 90.3 P13 M Weighed Offsie in Ireland Moloy Metals, WP08/14b Granagh, Klimacow, Co Within the Country 19 12 12 No 14.070.00 92 and 17.00 90.3 M Weighed Offsie in Ireland Granagh, Klimacow, Co Within the Country 19 12 12 No 32.40 paper and cardboard P13 M Weighed Offsie in Ireland Mark Lydon Enterprises Within the Country 20 10 10 No 33.0 paper and cardboard P13 M Weighed Offsie in Ireland Mark Lydon Enterprises To Other Countrie 20 10 10 No 38.0 paper and cardboard P13 M Weighed Offsie in Ireland Mark Lydon Enterp	Within the Country	15 01 03	No	984.0	wooden packaging	R13	М	Weighed	Offsite in Ireland	,WP-008-02	Tipperary ,.,ireland		
Within the Country 15 01 04 No 1.2.0 metallic packaging mixed construction and demolition wasts of the mixed construction and demolition wasts of the mixed most mixed construction and demolition wasts of the mixed construction and demolition wasts of the mixed most mixed construction and demolition and sectors of the mixed most mixed construction and demolition and sectors of the mixed most mixed construction and demolition and sectors of the mixed most mixed construction and demolition and demolition and sectors of the mixed most mixed construction and demolition and sectors of the mixed most mixed construction and demolition and sectors of the mixed construction and demolition and demolition and demolition and demolition and demolition and d	Within the Country	15 01 03	No	27.0	wooden packaging	R13	М	Weighed	Offsite in Ireland	MRf rosemount,.	.,.,,,ireland		
Within the Country 15 01 04 No 12.0 metallic packaging mixtures on and demolition wastes other than those mentioned in 17 09 01, 17 mixtures of including mixtures of other wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical reatment of wastes (including mixtures of materials) from mechanical meximent of the wistes of the mixtures of materials (including mixtures of materials) from mechanical meximent of the mixtures of materials (including mixtures of materials) from mechanical meximent of the mixtures of materials (inclusing mixtures of materials) from mechanical meximent of the mixtures of materials) from mechanical meximent of the mixtures of materials (inclas of themixtures of themixtures of themixtures of the											Ballycarney, Enniscorthy, Co.		
Within the Country 17 09 04 No 157.0 09 02 and 17 09 03 offer wastes (including mixtures of materials) from mechanical treatment of wastes (including mixtures of materials) from mechanical treatment of wastes (including mixtures of materials) from mechanical treatment of wastes other than those menitomed in 12 Viel ghed Offsite in Ireland CHI Environmental Ltd Granagh , Klimacow , Co Within the Country 19 12 12 No 708.0 11 R13 M Weighed Offsite in Ireland	Within the Country	15 01 04	No	12.0	metallic packaging	R13	м	Weighed	Offsite in Ireland	Molloy Metals, WP08/14b	Wexford,.,Ireland		
Within the County 17 09 04 No No 1457.0 09 03 cand 17 09 03 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 No Offsite in Ireland Offsite in Ireland Will WP 023/2007 Killenny,ireland Within the Country 19 12 12 No 708.0 11 R13 M Weighed Offsite in Ireland Greenstar limerick GES, Mark 100 Enterprise					other then these mentioned in 17 00 01 17						Grappagh Kilmasow Ca		
Minim the Country 10 0 000 mich mastes 110 mich mich mich mich mich mich mich mich	Within the Country	17 09 04	No	1457.0	09.02 and 17.09.03	R13	м	Weighed	Offsite in Ireland	WMP 023/2007	Kilkenny ireland		
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Within the Country 20 01 01 No 708.0 11 R13 M Weighed Abroad MRf rosemount, Mark Lydon Enterprises ,Ireland Within the Country 20 01 01 No 453.0 paper and cardboard R13 M Weighed Abroad MRf rosemount, Mark Lydon Enterprises ,Ireland To Other Countrie 20 01 01 No 453.0 paper and cardboard R13 M Weighed Abroad Muth (ACN Europe) Ltd, FS ,Ireland To Other Countries 20 01 01 No 318.0 paper and cardboard R13 M Weighed Abroad Broker IRE/GO21/12 ,Inteland To Other Countries 20 01 01 No 26.0 paper and cardboard R13 M Weighed Abroad Broker IRE/GO21/12 ,Inteland To Other Countries 20 01 02 No 26.0 paper and cardboard R13 M Weighed Abroad Broker IRE/GO21/12 ,Inteland Within the Country 20 01 02 No 695.0 glass R13 M Weighed Offsite in Ireland MP-008-02 Tipperary					materials) from mechanical treatment of								
Within the Country 19 12 12 No 700.0 11 R13 M Weighed Offsite in Ireland Greenstar limerick GES, ,Ireland To Other Countrie 20 01 01 No 324.0 paper and cardboard R13 M Weighed Abroad MR rosenut, ,Ireland Within the Country 20 01 01 No 453.0 paper and cardboard R13 M Weighed Abroad MR rosenut, ,Ireland To Other Countries 20 01 01 No 453.0 paper and cardboard R13 M Weighed Abroad Breat ML (ACN Europe) Ltd, TFS To Other Countries 20 01 01 No 318.0 paper and cardboard R13 M Weighed Abroad Breat Bre					wastes other than those mentioned in 19 12								
To Other Countries 20 01 01 No 324.0 paper and cardboard R13 M Weighed Abroad Mark Lycomount, Mark Lyco	Within the Country	19 12 12	No	708.0	11	R13	М	Weighed	Offsite in Ireland	Greenstar limerick GES,.	.,.,,,Ireland		
Within the Country 20 01 01 No 453.0 paper and cardboard R13 M Weighed Offsite in Ireland Ltd,RE/S021/12 ,,Ireland To Other Countries 20 01 01 No 318.0 paper and cardboard R13 M Weighed Abroad Broker IRE/G021/12 ,,United Kingdom To Other Countries 20 01 01 No 26.0 paper and cardboard R13 M Weighed Abroad Broker IRE/G021/12 ,,United Kingdom To Other Countries 20 01 01 No 26.0 paper and cardboard R13 M Weighed Abroad Broker IRE/G02/01/12 ,,United Kingdom Within the Country 20 01 02 No 695.0 glass R13 M Weighed Offsite in Ireland WP-008-02 Tipperary,ireland Within the Country 20 01 08 No 1202.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland Required Waterford, Ireland Within the Country 20 01 08 No 1202.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland Merodes Cononel Waste Di	To Other Countries	20 01 01	No	324.0	paper and cardboard	R13	М	Weighed	Abroad	MRf rosemount,.	.,.,,,ireland		
within the Country 20 01 01 No 453.0 paper and cardboard R13 M Weighed Onsite in Ireland ILL(NCR/C0/21/1 2000) ,	Within the Occurrent	00.04.04	N	450.0	ware and shall shall	D40		Martala al	Official in Inclosed	Mark Lydon Enterprises	laster d		
To Other Countries 20 01 01 No 318.0 paper and cardboard R13 M Weighed Abroad Broker (RE/G022/11) ,,United Kingdom To Other Countries 20 01 01 No 26.0 paper and cardboard R13 M Weighed Abroad Broker (RE/G022/11) ,,United Kingdom To Other Countries 20 01 01 No 26.0 paper and cardboard R13 M Weighed Abroad Broker (RE/G022/11) ,,United Kingdom Within the Country 20 01 02 No 695.0 glass R13 M Weighed Offsite in Ireland WmP-08-02 Tipperary,ireland Within the Country 20 01 08 No 1202.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland Required Waterford,,Netherlands Within the Country 20 01 08 No 2154.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland Required Waterford,,.Netherlands Within the Country 20 01 08 No 2154.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland Cononel Was	within the Country	200101	NO	453.0	paper and cardboard	R13	IVI	weighed	Onsite in Ireland	MLM (ACN Europe) Ltd TES	.,.,.,.,		
Note Point Countries Point Count	To Other Countries	20.01.01	No	318.0	paper and cardboard	R13	м	Weighed	Abroad	Broker IRE/G022/11	United Kingdom		
To Other Countries 20 01 01 No 26.0 paper and cardboard R13 M Weighed Abroad BV.IRE/G006/08 Dordrecht, Netherlands Within the Country 20 01 02 No 695.0 glass R13 M Weighed Offsite in Ireland BV.IRE/G006/08 Dordrecht, Netherlands Within the Country 20 01 02 No 695.0 glass R13 M Weighed Offsite in Ireland Required Vaterford,, Ireland Within the Country 20 01 08 No 1202.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland Required Waterford,, Ireland Within the Country 20 01 08 No 2154.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland Conmel Vaste Disposal Ltd Lawlesstown , Clonmel , Co Within the Country 20 01 08 No 2154.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland Woo8-02 Tipperary, ireland Within the Country 20 01 08 No 1210.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in I		200101	110	010.0		itio		Weighed	Abroad	Peute Papier Recycling	Veeplaat 40.3313 LJ		
Within the Country 20 01 02 No 695.0 glass R13 M Weighed Offsite in Ireland ,WP-008-02 Tipperary ,,,reland Within the Country 20 01 08 No 1202.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland ,WP-008-02 Tipperary ,,,reland Within the Country 20 01 08 No 1202.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland Required Waterford,,, Ireland Within the Country 20 01 08 No 2154.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland WP-008-02 Tipperary ,, ireland Within the Country 20 01 08 No 1210.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland WP-008-02 Tipperary ,, ireland Within the Country 20 01 08 No 1210.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland WP-008-02 Tipperary ,, ireland Within the Country 20 01 08 No 1210.0 biodegradable kitchen and canteen waste R13 M Weighed<	To Other Countries	20 01 01	No	26.0	paper and cardboard	R13	М	Weighed	Abroad	BV,IRE/G006/08	Dordrecht,,Netherlands		
Within the Country 20 01 02 No 695.0 glass R13 M Weighed Offsite in Ireland WP-008-02 Tipperary,ireland Within the Country 20 01 08 No 1202.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland WP-008-02 Tipperary,ireland Within the Country 20 01 08 No 1202.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland MP-008-02 Tipperary,ireland Within the Country 20 01 08 No 2154.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland MP-008-02 Tipperary,ireland Within the Country 20 01 08 No 2154.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland MP-008-02 Tipperary,ireland Within the Country 20 01 08 No 1210.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland MP-008-02 Tipperary,ireland Within the Country 20 01 08 No 1210.0 biodegradable kitchen and canteen waste R13 M Weig								Ŭ		Clonmel Waste Disposal Ltd	Lawlesstown ,Clonmel ,Co		
Within the Country 20 01 08 No 1202.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland Required Waterford,,Ireland Within the Country 20 01 08 No 2154.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland Mole yWaste Services to Clonmel Waste Disposal Ltd Lawlesstown , Clonmel ,Co Within the Country 20 01 08 No 2154.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland (WP-08-02 Tipperary ,ireland Within the Country 20 01 08 No 1210.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland (WP-08-02 Tipperary ,ireland Within the Country 20 01 08 No 1210.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland (WP-08-02 Tipperary ,ireland	Within the Country	20 01 02	No	695.0	glass	R13	М	Weighed	Offsite in Ireland	,WP-008-02	Tipperary ,,,ireland		
within the Country 20 01 08 No 12U2.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland Kequred Waterford,,Ireland Within the Country 20 01 08 No 2154.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland Kequred Waterford,,Ireland Within the Country 20 01 08 No 2154.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland WP-008-02 Tipperary,ireland Within the Country 20 01 08 No 1210.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland WP-008-02 Tipperary,ireland Within the Country 20 01 08 No 1210.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland WP-008-02 Tipperary,ireland				1007-5		D 40				Ormonde Environmental,Not	Portlaw,Co.		
Within the Country 20 01 08 No 2154.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland WP-008-02 Tipperary,ireland Within the Country 20 01 08 No 1210.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland WP-008-02 Tipperary,ireland	within the Country	20 01 08	NO	1202.0	biodegradable kitchen and canteen waste	R13	М	weighed	Offsite in Ireland	Required	waterrord,.,.,Ireland		
Within the Country 20 01 08 No 2154.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland ,WP-008-02 Tipperary ,.,ireland Within the Country 20 01 08 No 1210.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland ,WP-008-02 Tipperary ,.,ireland										Clonmel Waste Disposal Ltd	Lawlesstown Clonmel Co		
Within the Country 20 01 08 No 1210.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland ,WP-008-02 Tipperaryireland	Within the Country	20 01 08	No	2154.0	biodegradable kitchen and canteen waste	R13	м	Weighed	Offsite in Ireland	WP-008-02	Tipperary ireland		
Within the Country 20 01 08 No 1210.0 biodegradable kitchen and canteen waste R13 M Weighed Offsite in Ireland ,WP-008-02 Tipperary ,, ireland	country			2.04.0						Clonmel Waste Disposal Ltd	Lawlesstown ,Clonmel ,Co		
	Within the Country	20 01 08	No	1210.0	biodegradable kitchen and canteen waste	R13	М	Weighed	Offsite in Ireland	,WP-008-02	Tipperary ,.,ireland		

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE |PRT#: W0177 | Facility Name : | Filename : W0177_2013.xis | Return Year : 2013 | Please enter all quantities on this sheet in Tonnes

08/04/2014 12:04

										Glen Abbey Complex
									Textile Recycling Ltd	,Belgard ,Tallaght , Dublin
Within the Country	20 01 11	No	1.0 text	tiles	R13	M	Weighed	Offsite in Ireland	Licence exempt	24 ,ireland
									OD Recycling, WFP-TS-10-	Kilsheelin,Co.
Within the Country	20 01 38	No) 1.0 woo	od other than that mentioned in 20 01 37	R13	М	Weighed	Offsite in Ireland	0002-01	Tipperary,.,.,Ireland
							Ŭ			
										Denmark House, Brick Close
										Kiln Farm.Milton Kevnes
									Choice Waste	Buckinhamshire.MK11
To Other Countrie	s 20.01.39	No	335.0 plas	stics	R13	м	Weighed	Abroad	Management IRE/AG050/11	3DP United Kingdom
	200.00		000.0 p					7101044	Peute Papier Recycling	Veenlaat 40 3313 L
To Other Countrie	e 20.01.30	N	8 0 plas	stics	P13	м	Weighed	Abroad	BV IRE/G006/08	Dordrecht Netherlands
To Other Countrie	3 2001 33		0.0 piac	5005	IX15	IVI	weighed	Abioau	Agnail TES Broker	Dorarcongagneticitation
Within the Country	, 20.01.20	N	220.0 plac	ation	D12	м	Woighod	Officito in Iroland	IDE/AC117/11	Pollycoolin Dublin Iroland
within the Country	200139	INC	520.0 plas	5005	KI3	IVI	weighed	Offsite in fielding	IKE/AGTI//TI	The Kipper
									Motoria Environmental	Heuro Seille Kinesle Co
		N1.		ation	Dia		Mariah and	Officities in Inclosed		Rouse, Scilly, Kinsale, Co.
Within the Country	20 01 39	INC	989.0 pias	SUCS	R13	IVI	weigned	Offsite in Ireland	Classicala	COIK, IT et al la constantion
within the Country	20 01 40	INC	34.0 met	tais	R13	IVI	vveigned	Offsite in Ireland	Clearcircle,.	
										10 The Anchorage Business
									Davis Recycling Ltd, W0134-	Park, Charlotte Quay, Dublin
Within the Country	20 01 40	No	o 73.0 met	tals	R13	М	Weighed	Offsite in Ireland	01	4,.,Ireland
Within the Country	20 01 40	No	o 4.0 met	tals	R13	М	Weighed	Offsite in Ireland	Green Dragon Recycling,.	.,,,,,lreland
									Molloy Waste Services to	
									Clonmel Waste Disposal Ltd	Lawlesstown, Clonmel, Co
Within the Country	20 02 01	No	59.0 bioc	degradable waste	R13	M	Weighed	Offsite in Ireland	,WP-008-02	Tipperary ,,,ireland
										Drehid Landfill, Drehid
Within the Country	20 03 01	No	4792.0 mix	ed municipal waste	D5	М	Weighed	Offsite in Ireland	Bord Na Mona,W0201-01	,Naas,Co. Kildare,Ireland
Within the Country	20 03 01	No	52.0 mix	ed municipal waste	R13	М	Weighed	Offsite in Ireland	Greenstar limerick GES,.	Ireland
Within the Country	20 03 01	No	1909.0 mix	ed municipal waste	D5	М	Weighed	Offsite in Ireland	Sarsfield Court MRF.	Ireland
Within the Country	20.03.01	No	24.0 mix	ed municipal waste	D5	м	Weighed	Offsite in Ireland	O toole Composting.	ireland
,									Binman via link to	
Within the Country	20.03.01	No	1236.0 mix	red municipal waste	D5	м	Weighed	Offsite in Ireland	Gortnadomma	Ireland
,									,-	Bray Depot Fassaroe Bray
Within the Country	20.03.01	No	44.0 mix	red municipal waste	R13	м	Weighed	Offsite in Ireland	Greenstar Ltd W0053-03	Co Wicklow ireland
Within the Country	20 03 01	N	589.0 mix	red municipal waste	P13	M	Weighed	Offsite in Ireland	Greybould Crag Avenue	ireland
Within the obtaining	20 00 01		,		itio		Weighed	Official of the field of the	ereyneada erag / trenae,.	Carlanstown Duleek Co
Within the Country	20.03.01	No	1283.0 mix	ed municipal waste	R1	м	Weighed	Offsite in Ireland	Indaver IWME_W0167-02	Meath Ireland
Within the obtaining	20 00 01		1200.0 1110		ivi		Weighed	Official of the field of the		Robinbood Industrial
										Estate Robinhood
									Ovigen Environmental	Road Ballymount Dublin
Within the Country		NL	72.0 min	ad municipal weate	D12		Waishad	Officite in Iroland	Und Works of	22 Ireland
within the Country	20 03 01	INC	73.0 1110	eu municipai waste	RIS	IVI	weighed	Offsite in freiand	Ltd., W0152-03	22, Itelditu Drahid Landfill Drahid
Within the Country		NL	1014.0 atra	et electrica residues	DE		Waishad	Officite in Iroland	Bard No Mana W0201 01	Nees Ce Kildere Ireland
within the Country	20 03 03	INC	1014.0 Sile	et-cleaning residues	D5	IVI	weighed	Onsite in freiand	Bord Na Mona, W0201-01	,Naas,Co. Kiidare,iieland
									One en estere l'Indefin en	Knocknaney
			100.0		55				Greenstar Holdings	Landrill, Kentstown, Co.
Within the Country	20 03 03	NO	436.0 stre	eet-cleaning residues	D5	M	vveigned	Offsite in Ireland	Ltd., W0146-01	Meath,.,Ireland
Within the Country	20 03 03	No	119.0 stre	eet-cleaning residues	R13	M	Weighed	Offsite in Ireland	Gortnadroma landfill,.	.,.,,Ireland
Within the Country	20 03 07	No	o 22.0 bulk	ky waste	R13	M	Weighed	Offsite in Ireland	MRF Bray,.	.,.,,Ireland
										Millennium Business
					_					Park, Grange, Ballycoolin, Dubl
Within the Country	20 03 07	No	o 382.0 bulk	ky waste	D5	М	Weighed	Offsite in Ireland	Greenstar Limited,W0183-01	in 11,Ireland
Within the Country	15 01 05	No	5.0 com	nposite packaging	R13	M	Weighed	Offsite in Ireland	MRf rosemount,.	.,.,,,ireland
Within the Country	15 01 06	No	439.0 mix	ed packaging	R13	M	Weighed	Offsite in Ireland	MRF Bray,.	.,,,,,Ireland
									Quality Recycling Ltd.,WFP-	Ballylynch,Carrick-on-
Within the Country	/ 15 01 06	No	o 1864.0 mix	ed packaging	R13	M	Weighed	Offsite in Ireland	TS-08-0079-01	Suir,Co. Tipperary,,,Ireland
										Robinhood Industrial
										Estate,Robinhood
									Oxigen Environmental	Road,Ballymount,Dublin
Within the Country	15 01 06	No	1563.0 mix	ed packaging	R13	М	Weighed	Offsite in Ireland	Ltd.,W0152-03	22, Ireland
									Killarney Waste Disposal	Aughacurreen, Killarney, Co.
Within the Country	15 01 06	No	1654.0 mix	ed packaging	R13	М	Weighed	Offsite in Ireland	,W0217-01	Kerry,Ireland
			othe	er wastes (including mixtures of						
			mat	terials) from mechanical treatment of						Millennium Business
			was	stes other than those mentioned in 19 12						Park.Grange.Ballycoolin.Dubl
Within the Country	19 12 12	No	3941.0.11		R13	М	Weighed	Offsite in Ireland	Greenstar Limited W0183-01	in 11.Ireland
, and a build participation of the second se										

			ath an use at a climatical in a minimum of								
			other wastes (including mixtures of								
			materials) from mechanical treatment of								
			wastes other than those mentioned in 19 12						Bray Depot ,Fassaroe ,Bray	/	
Within the Country	19 12 12	No	7947.0 11	R13	M	Weighed	Offsite in Ireland	Greenstar Ltd , W0053-03	Co Wicklow,.,ireland		
			other wastes (including mixtures of						Robinhood Industrial		
			materials) from mechanical treatment of						Estate,Robinhood		
			wastes other than those mentioned in 19 12					Oxigen Environmental	Road,Ballymount,Dublin		
Within the Country	19 12 12	No	5150.0 11	R13	M	Weighed	Offsite in Ireland	Ltd.,W0152-03	22, Ireland		
			other wastes (including mixtures of								
			materials) from mechanical treatment of								
			wastes other than those mentioned in 19 12								
Within the Country	19 12 12	No	438.0 11	R13	М	Weighed	Offsite in Ireland	O toole Composting,.	ireland		
Within the Country	20 01 39	No	447.0 plastics	R13	М	Weighed	Offsite in Ireland	Greentech plastics ltd	Ireland		
								Mollov Waste Services to			
								Clonmel Waste Disposal I td	Lawlesstown Clonmel Co		
Within the Country	20.02.01	No	11.0 biodegradable waste	R13	м	Weighed	Offsite in Ireland	WP-008-02	Tipperary ireland		
finani ale ecunity	20 02 01							, 000 02	Clermont Business		
								Leinster Environmentals WP	Park Haggardstown Dundalk		
Within the Country	15 01 02	No	5.0 plastic packaging	P13	м	Weighed	Offeite in Ireland	2008/06	Co. Louth Ireland	,	
within the Country	13 01 02	NO	other wastes (including mixtures of	IX15	IVI	weighed	Onsite in heidhu	2000/00	CO. LOUII,ITEIAIIU		
			materials) from machanical treatment of								
			wastes other these these montioned in 10.12								
Within the Country	10 10 10	No		D12		Mainhad	Officite in Ireland		Iroland		
within the Country	191212	NU	97.0 11	KI3	IVI	weigheu	Offsite in freiand	Daliyllagrafi via bray,.			
T 04 0 43			10.0 menor and conducted	B 40				Peute Papier Recycling	Veeplaat 40,3313 LJ		
To Other Countries	20 01 01	NO	12.0 paper and cardboard	R13	M	weighed	Abroad	BV,IRE/G006/08	Dordrecht,.,.,ivetherlands		
Within the Country	20 03 01	NO	24.0 mixed municipal waste	R13	M	weigned	Offsite in Ireland	Ballynagran Via bray,.	.,.,,.,Ireland		
										KINK Metals Recyling	
			fluorescent tubes and other mercury-							Ltd,w0113-04, Iullamore,Co	
Within the Country	20 01 21	Yes	1.0 containing waste	R13	М	Weighed	Offsite in Ireland	KMK Metals Recyclin LTD,.	.,,,,,,Ireland	Offaly,.,,,ireland	.,.,,ireland
										Enva,W0184-	
			oil and fat other than those mentioned in 20							01,Portlaoise,Laoise,.,,irelar	1
Within the Country	20 01 26	Yes	3.0 01 25	R13	M	Weighed	Offsite in Ireland	ENVA Portaloise,.	.,,,,,,Ireland	d	.,.,,,ireland
			discarded electrical and electronic								
			equipment other than those mentioned in 20								
Within the Country	20 01 36	No	6.0 01 21, 20 01 23 and 20 01 35	R13	М	Weighed	Offsite in Ireland	KMK Metals Recyclin LTD,.	.,.,,Ireland		
		* Select a row by	y 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



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Procedure Listing

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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Procedure Listing

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				



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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	0.C
01.02.11	09	IP-10	03	Inclusion of SP-08	0.C
01.02.11	10	IP-15	02	Removal of SF-022	0.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	0.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	0.C
01/12/11	18	SP-09	01	Inclusion of new procedure for SCGT	0.C
01/12/11	19	SP-10	01	Inclusion of new procedure for SCGT	0.C
03/05/12	20	SP-01	02	Amendment to remove SF 028	0.C
05/05/12	21	SP-11	01	Inclusion of a new procedure for Greenogue	0.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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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- 120.C	



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