ANNUAL ENVIRONMENTAL REPORT STARRUS ECO HOLDINGS LIMITED MATERIALS RECOVERY FACILITY DOCK ROAD, LIMERICK LICENCE NO. W0082-02 JANUARY 2014 – DECEMBER 2014

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1. INTRODUCTION

This is the 2014 Annual Environmental Report (AER) for the Starrus Eco Holdings Ltd. (Greenstar), Materials Recovery Facility (MRF) at Ballykeefe, Dock Road, Limerick (W0082-02) and covers the reporting period January 2014 to December 2014. Transfer of the licence from Greenstar Limited to Starrus Eco Holdings Ltd was completed in March 2014.

The content is based on Schedule F of the Licence and the report format follows guidelines set in the "Guidance Note for Annual Environmental Report" issued by the Environmental Protection Agency (Agency)¹. Cognisance was also taken of the Agency AER Draft Guidance Document and Draft AER Templates issued in January 2013².

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¹ EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency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 facility is located on the Dock Road in Limerick, in an area dominated by industrial and commercial buildings and activities. It is adjacent to the N69, on the main Limerick to Foynes road.

There are two adjoining buildings, comprising a recycling area and transfer area. There is also a separate office building and adjoining vehicle and plant maintenance workshop located close to the site entrance. The open yard areas are paved and are used for external waste storage bays (C&D, glass, metals and timber), baling and storage of wrapped wastes, skip storage, truck parking and a vehicle washing area (not in use during the reporting period). The entire site, including the floors of the transfer buildings and the open yards, is paved with concrete.

2.2 Waste Management Activities

The existing Licence (W0082-02) allows Greenstar to accept and process 90,000 tonnes of commercial and industrial, construction and demolition and municipal wastes. A proposed determination (PD) in relation to W0082-03 was issued in December 2014. This would allow increase in tonnage to 130,000 tonnes per annum.

2.2.1 Waste Types & Processes

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

- Commercial and Industrial Waste (70,000 tonnes),
- Municipal (15,500 tonnes),
- Construction & Demolition (4,500 tonnes).

In July 2012 Schedule A of the Licence was amended by the Agency to allow for the following waste types and quantities-

- Commercial and Industrial Waste (10,500 tonnes),
- Municipal (75,000 tonnes),

• Construction & Demolition (4,500 tonnes).

No hazardous wastes or liquid waste 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. Agreement to one such request was obtained in July 2012.

The key processes carried out at the facility include: -

- Segregation of recyclable materials (paper, cardboards, plastic, wood, metals, glass);
- Bulking up of Municipal Solid Waste;
- Segregation and bulking of C&D waste;
- Transfer of recovered and residual materials to appropriately licensed recycling, recovery and disposal outlets, and
- Timber shredding
- Baling and wrapping of waste material (20 03 01)

Commercial and Industrial Waste

Both mixed and segregated commercial waste is collected from commercial sources. Commercial waste rich in recyclables (paper, cardboard, glass, metal, green waste and wood) is delivered by both permitted third party hauliers and by Greenstar vehicles. Plastic, card and paper are baled and stored, prior to transfer to a suitable permitted/licensed off-site recycling outlet. Timber recovered from the mixed C&I waste stream and that delivered to the facility as a single waste stream is shredded onsite. Biodegradable wastes suitable for composting are sent to an offsite composting facility. The remaining non-recyclable material is bulked and sent to appropriate licensed disposal facilities.

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, with any plasterboard removed and placed in a dedicated skip located inside the building, and the remainder off loaded into an external C&D bay. The majority of the incoming waste is recovered and sent off-site either for re-use or recycling. The non-recyclable materials are transferred to a licensed landfill.

Municipal Waste

All mixed MSW is handled inside the building. The incoming waste is deposited on the floor of the building and is then compacted, for removal and disposal at an approved

residual waste facility or re-directed to the onsite baler for the production of wrapped bales of waste material for export to approved recovery facilities.

Timber Shredding

Untreated timber pallets and untreated construction timbers were shredded in the northern area of the yard and stored in a shred timber bay prior to dispatch either for use as a compost bulking/aeration agent, or as raw material for chipboard/MDF manufacturers. This process was discontinued in 2012.

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 capacity.

Table 2.1 Existing Plant

	Difficulty 1 fame		
No.	Plant	Operational Capacity tpd	Standby Capacity tpd
1	360° case Excavator	300	200
1	Volvo Loading Shovel	500	350
2	Doppstadt shredders	200	150
1	Cardboard baler	100	75
1	Waste Baler	350	200
3	New Holland tele-porters	350	200
1	Hyster forklift	100	75

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 2014 is presented in this Section.

3.1 Surface Water Monitoring

Surface water is generated by rainfall on roofs and the paved open yard areas. The run-off is collected and is currently discharged via 1 No. three chambered interceptor to a manmade drain that runs along the eastern site boundary. This drain discharges to the Ballinacurra Creek, which ultimately joins the River Shannon.

The Licence requires surface water monitoring at two discharge points from the oil interceptor (FE1A and FE1B). FE1B is at the overflow point and the only flow occurs during periods of very high rainfall. Following discussions with the Agency in January 2012, the discharge point FE1B was sealed and all discharges from the interceptor are directed through FE1A. Monitoring is also required in the drain upstream (WS9) and downstream (WS10) of the discharge points. The licence requires monthly monitoring of the surface water discharged from the site along with the upstream and downstream locations. Due to periods of dry weather, no sampling was carried out in January, April, June or September 2014.

The monitoring results are included on Tables 3.1 to 3.10. The proposed emission limit value (ELV) for Total Suspended Solids (TSS) was exceeded at the discharge point on one occasion, in November 2014. The Zinc EQS was exceeded at the discharge point on one occasion, also in November 2014. The proposed trigger level for BOD was exceeded on six occasions, in February, March, twice in May, October and December 2014. On each occasion where trigger levels were exceeded, the Agency was notified at the time of the exceedance, along with the Inland Fisheries Board and Limerick City & County Council.

 Table 3.1
 Surface Water Monitoring Results – February 2014

Parameter	Units	WS9 - UP	FE1A Discharge	WS10- DOWN	Range 2011	Trigger*	ELV*	EQS
рН	pH units	7.50	6.9	7.30		-	-	-
BOD	mg/l	3	26	6	4-106	-	25	-
Total Suspended Solids	mg/l	8	23	5	<1-113	-	60	-
Ammonia Nitrogen	mg/l	0.22	1.07	0.02		4	-	-
Fats Oils Grease	mg/l	<1	2.2	<1		-	-	-
Mineral Oils	mg/l	< 0.001	< 0.001	< 0.001		-	5	0.01
TOC	mg/l	3.19	16.03	4.17		-	-	-
Arsenic - dissolved	ug/l	0.46	0.6	0.44		-	-	25
Cadmium - dissolved	ug/l	0.2	0.3	0.4		-	-	5
Chromium - dissolved	ug/l	1	1	2		-	-	30
Copper - dissolved	ug/l	6	4	3		-	-	30
Mercury - dissolved	ug/l	0.018	< 0.013	< 0.013		-	-	1
Nickel - dissolved	ug/l	<2	3.4	2.2		-	-	20
Lead - dissolved	ug/l	1.2	2.50	1.2		-	-	10
Zinc - dissolved	ug/l	23	44	14		-	-	100

^{*} ELV applies to discharges – FE1A only.

Table 3.2 Surface Water Monitoring Results – March 2014

Parameter	Units	WS9 - UP	FE1A Discharge	WS10- DOWN	Range 2011	Trigger*	ELV*	EQS
pН	pH units	7.46	6.64	8.09		-	-	-
BOD	mg/l	<2	51	4	4-106	-	25	-
Total Suspended Solids	mg/l	4	24	4	<1-113	-	60	-
Ammonia Nitrogen	mg/l	0.42	0.49	0.58		4	-	-
Fats Oils Grease	mg/l	<1	<1	<1		-	-	-
Mineral Oils	ug/l	< 0.001	< 0.001	< 0.001		-	5	0.01
TOC	mg/l	4.95	16.24	5.25		-	-	-
Arsenic - dissolved	ug/l	0.73	0.59	0.71		-	-	25
Cadmium - dissolved	ug/l	0.2	0.2	0.2		-	-	5
Chromium - dissolved	ug/l	1	1	1		-	-	30
Copper - dissolved	ug/l	<5	<5	<5		-	-	30
Mercury - dissolved	ug/l	0.084	0.18	0.052		-	-	1
Nickel - dissolved	ug/l	<2	2.1	<2		-	-	20
Lead - dissolved	ug/l	1.1	< 0.8	< 0.8		-	-	10
Zinc - dissolved	ug/l	9	15	7		-	-	100

^{*} ELV applies to discharges – FE1A only.

Table 3.3 Surface Water Monitoring Results – April 2014

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Parameter	Units	WS9 - UP	FE1A Discharge	WS10- DOWN	Range 2011	Trigger *	ELV*	EQS		
pН	pH units	7.61	6.96	7.72	-	-	-	-		
BOD	mg/l	<1	25	<1	4-106	-	25	-		
Total Suspended Solids	mg/l	63	29	20	<1-113	-	60	-		
Ammonia Nitrogen	mg/l	0.12	5.46	0.38	-	4	-	-		
Fats Oils Grease	mg/l	< 0.01	< 0.01	< 0.01	-	-	-	-		
Mineral Oils	ug/l	< 0001	< 0.01	< 0.01	-	-	5	0.01		
TOC	mg/l	6	14	6	-	-	-	-		
Arsenic - dissolved	ug/l	<2.5	<2.5	<2.5	-	-	-	25		
Cadmium - dissolved	ug/l	< 0.5	< 0.5	< 0.5	-	-	-	5		
Chromium - dissolved	ug/l	<1.5	<1.5	<1.5	-	-	-	30		
Copper - dissolved	ug/l	<7	<7	<7	-	-	-	30		
Mercury - dissolved	ug/l	<1	<1	<1	-	-	-	1		
Nickel - dissolved	ug/l	<2	<2	<2	-	-	-	20		
Lead - dissolved	ug/l	<5	<5	<5	-	-	-	10		
Zinc - dissolved	ug/l	<3	4	<3	-	-	-	100		

^{*} ELV applies to discharges – FE1A only.

 Table 3.4
 Surface Water Monitoring Results – May 2014

Parameter	Units	WS9 - UP	FE1A Discharge	WS10- DOWN	Range 2011	Trigger *	ELV*	EQS
pН	pH units	7.67	6.9	7.49	-	-	-	-
BOD	mg/l	5	63	6	4-106	-	25	-
Total Suspended Solids	mg/l	3	32	6	<1-113	-	60	-
Ammonia Nitrogen	mg/l	0.34	0.69	0.43	ı	4	-	-
Fats Oils Grease	mg/l	<1	<1	<1	-	-	-	-
Mineral Oils	ug/l	< 0.001	< 0.001	< 0.001	-	-	5	0.01
TOC	mg/l	6.92	21.7	8.03	-	-	-	-
Arsenic - dissolved	ug/l	0.7	0.590	0.7	-	-	-	25
Cadmium - dissolved	ug/l	0.5	0.6	0.4	-	-	-	5
Chromium - dissolved	ug/l	1	3	1	-	-	-	30
Copper - dissolved	ug/l	<5	6	<5	-	-	-	30
Mercury - dissolved	ug/l	< 0.013	< 0.013	< 0.013	-	-	-	1
Nickel - dissolved	ug/l	2.2	5.2	2.4	-	-	-	20
Lead - dissolved	ug/l	1	2.9	< 0.8	-	-	-	10
Zinc - dissolved	ug/l	14	45	11	-	-	-	100

^{*} ELV & Trigger applies to discharges – FE1A only.

 Table 3.5
 Surface Water Monitoring Results – May 2014 (EPA Visit)

Parameter	Units	FE1A Discharge	Range 2011	Trigger *	ELV*	EQS
pН	pH units	6.7	-	-	-	-
BOD	mg/l	83	4-106	-	25	-
Total Suspended Solids	mg/l	32	<1-113	-	60	-
Ammonia Nitrogen	mg/l	2.02	-	4	-	-
Fats Oils Grease	mg/l	<1	-	-	-	-
Mineral Oils	ug/l	< 0.001	-	-	5	0.01
TOC	mg/l	28.46	-	-	-	-
Arsenic - dissolved	ug/l	0.650	-	-	-	25
Cadmium - dissolved	ug/l	< 0.125	-	-	-	5
Chromium - dissolved	ug/l	2	-	-	-	30
Copper - dissolved	ug/l	<5	-	-	-	30
Mercury - dissolved	ug/l	0.0140	-	-	-	1
Nickel - dissolved	ug/l	4.6	-	-	-	20
Lead - dissolved	ug/l	< 0.8	-	-	-	10
Zinc - dissolved	ug/l	24				100

^{*} ELV & Trigger applies to discharges – FE1A only.

Table 3.6 Surface Water Monitoring Results – July 2014

Parameter	Units	WS9 - UP	FE1A Discharge	WS10- DOWN	Range 2011	Trigger	ELV*	EQS
pН	pH units	7.43	7.5	7.83	-	-	-	-
BOD	mg/l	4	5	3	4-106	-	25	-
Total Suspended Solids	mg/l	4	3	4	<1-113	-	60	-
Ammonia Nitrogen	mg/l	0.28	0.1	0.3	-	4	-	-
Fats Oils Grease	mg/l	<1	<1	<1	-	-	-	-
Mineral Oils	ug/l	< 0.001	< 0.001	< 0.001	-	-	5	0.01
TOC	mg/l	3.5	4.49	4.36	-	-	-	-
Arsenic - dissolved	ug/l	0.83	0.75	0.79	-	-	-	25
Cadmium - dissolved	ug/l	0.4	0.3	0.3	-	-	-	5
Chromium - dissolved	ug/l	< 0.6	< 0.6	1	-	-	-	30
Copper - dissolved	ug/l	<5	<5	<5	-	-	-	30
Mercury - dissolved	ug/l	< 0.0130	< 0.0130	< 0.0130	-	-	-	1
Nickel - dissolved	ug/l	<2	2	<2	-	-	-	20
Lead - dissolved	ug/l	< 0.8	< 0.8	1.2	-	-	-	10
Zinc - dissolved	ug/l	2	5	3	-	-	-	100

^{*} ELV & Trigger applies to discharges – FE1A only.

Table 3.7 Surface Water Monitoring Results – August 2014

Parameter	Units	WS9 - UP	FE1A Discharge	WS10- DOWN	Range 2011	Trigger	ELV*	EQS
pН	pH units	7.24	-	8.11	-	-	-	-
BOD	mg/l	13	1	12	4-106	-	25	-
Total Suspended Solids	mg/l	10	1	9	<1-113	-	60	-
Ammonia Nitrogen	mg/l	0.47	1	0.95	1	4	-	-
Fats Oils Grease	mg/l	<1	1	<1	1	-	-	-
Mineral Oils	ug/l	< 0.001	1	< 0.001	1	-	5	0.01
TOC	mg/l	6.86	1	6.96	1	-	-	•
Arsenic - dissolved	ug/l	0.96	-	0.27	-	-	-	25
Cadmium - dissolved	ug/l	0.5	1	0.4	ı	-	-	5
Chromium - dissolved	ug/l	1	1	1	1	-	-	30
Copper - dissolved	ug/l	8	1	<5	1	-	-	30
Mercury - dissolved	ug/l	< 0.023	1	0.27	1	-	-	1
Nickel - dissolved	ug/l	2.2	-	<2	- 1	-	-	20
Lead - dissolved	ug/l	1.2	-	0.9	-	-	-	10
Zinc - dissolved	ug/l	2	-	3	-	-	-	100

FE1A Not sampled as no surface water was discharging from site at time of sampling.

Table 3.8 Surface Water Monitoring Results – October 2014

Table 3.0 Surface water Womtoning Results October 2014										
Parameter	Units	WS9 - UP	FE1A Discharge	WS10- DOWN	Range 2011	Trigger *	ELV*	EQS		
pН	pH units	7.491	6.754	7.265	-	-	-	-		
BOD	mg/l	3	122	14	4-106	-	25	-		
Total Suspended Solids	mg/l	7	46	28	<1-113	-	60	-		
Ammonia Nitrogen	mg/l	0.63	1.2	1.07	-	4	-	-		
Fats Oils Grease	mg/l	<1	1.4	<1	-	-	-	-		
Mineral Oils	ug/l	< 0.001	< 0.001	< 0.001	-	-	5	0.01		
TOC	mg/l	7.43	45.84	10.55	-	-	-	-		
Arsenic - dissolved	ug/l	0.001	0.001	<0	-	-	-	25		
Cadmium - dissolved	ug/l	0.3	0.2	0.3	-	-	-	5		
Chromium - dissolved	ug/l	< 0.6	2	1	-	-	-	30		
Copper - dissolved	ug/l	<5	<5	<5	-	-	-	30		
Mercury - dissolved	ug/l	< 0.0001	< 0.0001	< 0.0001	-	-	-	1		
Nickel - dissolved	ug/l	2.8	5.4	2.7	-	-	-	20		
Lead - dissolved	ug/l	< 0.8	3.5	1.2	-	-	-	10		
Zinc - dissolved	ug/l	<1.9	106	4	-	-	-	100		

^{*} ELV & Trigger applies to discharges – FE1A only.

^{*} ELV & Trigger applies to discharges – FE1A only.

Table 3.9 Surface Water Monitoring Results – 13th November 2014

Parameter	Units	WS9 - UP	FE1A Discharge	WS10- DOWN	Range 2011	Trigger*	ELV*	EQS
pH	pH units	7.79	7.29	7.67	-	-	-	-
BOD	mg/l	2	22	3	4-106	-	25	-
Total Suspended Solids	mg/l	57	93	37	<1-113	-	60	-
Ammonia Nitrogen	mg/l	0.16	1.27	0.18	-	4	-	-
Fats Oils Grease	mg/l	< 0.01	< 0.01	< 0.01	-	-	-	-
Mineral Oils	ug/l	< 0.01	< 0.01	< 0.01	-	-	5	0.01
TOC	mg/l	<2	8	<2	-	-	-	-
Arsenic - dissolved	ug/l	<2.5	<2.5	<2.5	-	-	-	25
Cadmium - dissolved	ug/l	< 0.5	< 0.5	< 0.5	-	-	-	5
Chromium - dissolved	ug/l	<1.5	<1.5	<1.5	-	-	-	30
Copper - dissolved	ug/l	<7	<7	<7	-	-	-	30
Mercury - dissolved	ug/l	<1	<1	<1	-	-	-	1
Nickel - dissolved	ug/l	<2	<2	<2	-	-	-	20
Lead - dissolved	ug/l	<5	<5	<5	-	-	-	10
Zinc - dissolved	ug/l	12	54	18	-	-	-	100

^{*} ELV & Trigger applies to discharges – FE1A only.

Table 3.10 Surface Water Monitoring Results – 19th December 2014

Parameter	Units	WS9 - UP	FE1A Discharge	WS10- DOWN	Range 2011	Trigger*	ELV*	EQS
pН	pH units	7.01	6.59	7.16	-	-	-	-
BOD	mg/l	39	50	35	4-106	-	25	-
Total Suspended Solids	mg/l	6	44	12	<1-113	-	60	-
Ammonia Nitrogen	mg/l	1.62	0.48	0.81	-	4	-	-
Fats Oils Grease	mg/l	<1	<1	<1	-	-	-	-
Mineral Oils	mg/l	< 0.001	< 0.001	< 0.001	-	-	5	0.01
TOC	mg/l	6.06	34.08	4.59	-	-	-	-
Arsenic - dissolved	ug/l	0.710	0.660	0.560	-	-	-	25
Cadmium - dissolved	ug/l	1.8	0.4	0.4	-	-	-	5
Chromium - dissolved	ug/l	2	1	< 0.6	-	-	-	30
Copper - dissolved	ug/l	<5	<5	<5	-	-	-	30
Mercury - dissolved	ug/l	0.0210	< 0.0130	0.0140	-	-	-	1
Nickel - dissolved	ug/l	2.3	2	<2	-	-	-	20
Lead - dissolved	ug/l	1.5	2	< 0.8	-	-	-	10
Zinc - dissolved	ug/l	45	15	11	-	-	-	100

^{*} ELV & Trigger applies to discharges – FE1A only.

3.2 Foul water Monitoring

Foul water is treated in the on-site Klargestor treatment plant, with the treated effluent discharged to an on-site percolation area. Following a request by the Agency in December 2011 a detailed Waste Water Treatment System Risk Assessment was completed by IE Consulting Engineers in 2012. The report showed that the average daily treated effluent discharge to the percolation area is $0.4 \text{m}^3/\text{day}$, which is a relatively low volume of discharge.

When rainfall over the percolation area is taken into consideration, the total hydraulic loading is 0.483m³/day.

Foul water monitoring is required at two monitoring locations - FE2a which is the discharge from the treatment plant and FE2b which is the truckwash discharge. The truckwash has not been used since Q3 2010 and therefore no samples were collected at FE2b in the reporting period.

The monitoring results are included on Table 3.11. There are no ELVs set in the licence and for comparative purposes the table includes the performance standards set in the EPA Waste Water Treatment Manual Guidelines.

Throughout the year there were exceedances of the performance standards for BOD (4 occasions), TSS (5 occasions) and Ammoniacal Nitrogen (3 occasions). In July, the standards were significantly exceeded and Greenstar immediately commenced a program of works to repair and service the treatment plant.

The treated effluent discharges to ground and it is understood that the percolation area is not categorised as being located in a nutritionally sensitive area.

Subject to final wayleave agreement from Limerick City and County Council, it is intended to construct a connecting pipeline to the nearby municipal waste water treatment plant. Following this, waste water from the facility will be discharged to the municipal plant and the on-site system will be decommissioned.

Table 3.11 – Foul Water Monitoring Results 2014

Parameter	Units	March 2014	April 2014	July 2014	August 2014	October 2014	November 2014	Performance Standards
pН	pH units	7.74	7.45	7.6	8.04	7.989	7.99**	-
BOD	mg/l	28	6	1,257	70	27	19	20
Total Suspended Solids	mg/l	32	57	610	67	30	203	30
Ammonia Nitrogen	mg/l	14.53	40.87	184.06	82.55	14.50	12.05	20
Fats Oils & Greases	mg/l	<1	< 0.01	59.4	<1	<1	< 0.01	-
Sulphate	mg/l	83.6	103.98	53.4	80.1	42.0	14.62	-
Total Phosphorous	mg/l	0.050	4.681	16.5	7.86	4.69	4.873	-
Total Nitrogen	mg/l	33.77	53.5	190.66	85.55	25.76	25.2	-
Nitrate	mg/l	11.16	0.4	0.14	0.03	29.9	1.3	-
Nitrite	mg/l	3.26	< 0.2	<2	<2	5.92	< 0.02	-
COD	mg/l	84	60	2,358	239	142	78	-

3.3 Groundwater Monitoring

Groundwater monitoring is carried out bi-annually at three wells, GWM1, GWM2 and GWM3. GWM1 is located close to the entrance to the dry recyclables recycling building, GWM2 is at the northern site boundary and is downgradient of site activities. GWM3 is outside the operational area and is upgradient of site activities.

There are no ELVs or Trigger Levels set in the Licence. For interpretation purposes the results had, up to Q2 2011, been compared to the Interim Guideline Values (IGV) for groundwater published by the Agency. Since then, the results are also compared to the Threshold Values for groundwater (GTV) quality introduced by the European Communities Environmental Objectives (Groundwater) Regulations 2010 S.I. No 9 of 2010. The IGV levels represent typical background or unpolluted conditions, however, levels higher than the IGV can occur naturally, depending on the local geological and hydrogeological conditions. While the Threshold Values 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 groundwater. Because not all parameters monitored have been assigned Threshold Values, the relevant IGV continue to be used for comparative purposes.

In October 2013, OCM on behalf of GES submitted proposed groundwater trigger levels for the Agency's approval. Although the proposed trigger levels have not yet been approved they are included for information purposes in Table 3.12. The monitoring results are summarised in Tables 3.13 and 3.14.

In January 2013, the Agency amended the Licence to insert Condition 7.9 of the Licence requiring Greenstar, in line with the criteria set out in the Guidance on the Authorisation of Discharges to Groundwater, published by the Agency, to review the most recent hydrogeological assessment report for the installation and, if relevant, arrange for the assessment of the installation by an appropriately qualified consultant/professional to demonstrate compliance with the European Communities Environmental Objectives (Groundwater) Regulations 2010, as amended. A hydrogeological assessment of the site, which included the installation of three groundwater monitoring wells and rising/falling head tests was initially carried out in 2002; however a report on these works is not available. Greenstar appointed O'Callaghan Moran & Associates (OCM) in 2014 to assess the installation to demonstrate compliance with the Groundwater Regulations. A report was submitted to the Agency in June 2014.

Table 3.12 Proposed Trigger Levels

Borehole	Electrical Conductivity Proposed Trigger Level (mS/cm)	Ammoniacal Nitrogen Proposed Trigger Level (mg/l)
GWM1	1.140	11.89
GWM2	1.790	10.31
GWM3	1.120	1.87

Table 3.13 Groundwater Monitoring Results – April 2014

Parameter	Units	GWM1	GWM2	GWM3	GTV	IGV
BOD	mg/l	6	2	<1	-	-
TSS	mg/l	2,704	2,774	700	•	-
Dissolved Oxygen	mg/l	5	5	7	•	NAC
Oils, Fats & Greases	mg/l	< 0.1	< 0.1	< 0.1	•	-
Total Phosphorus	mg/l	2.151	2.172	0.265	-	-
Ammoniacal Nitrogen	mg/l	12.74	2.4	0.71	0.175	-
Conductivity	mS/cm	1.414	1.055	1.688	1.875	-
DRO	mg/l	< 0.01	< 0.01	< 0.01	-	0.01
TPH	mg/l	< 0.01	< 0.01	< 0.01	-	0.01
Undecane (C10-C12)	mg/l	< 0.01	< 0.01	< 0.01	-	-

Table 3.14 Groundwater Monitoring Results – November 2014

Parameter	Units	GWM1	GWM2	GWM3	GTV	IGV
BOD	mg/l	6	6	<1	-	-
TSS	mg/l	3,596	1,386	861	-	-
Dissolved Oxygen	mg/l	5	6	4	-	NAC
Oils, Fats & Greases	mg/l	< 0.01	< 0.01	< 0.01	-	-
Total Phosphorus	mg/l	3.248	1.383	0.771	-	-
Ammoniacal Nitrogen	mg/l	9.02	7	0.73	0.175	-
Conductivity	mS/cm	1.246	1.402	0.828	1.875	-
Mineral Oil	mg/l	< 0.01	< 0.01	< 0.01	-	0.01
EPH/DRO	mg/l	< 0.01	< 0.01	< 0.01	-	0.01
Undecane (C10-C12)	mg/l	< 0.01	< 0.01	< 0.01	-	-

3.3.1 Groundwater Discussion

The results are generally consistent with those of previous monitoring events which have found elevated levels of ammoniacal nitrogen at each location.

Although hydrocarbons occurred intermittently at GWM1 and GWM3 in 2013, none were identified in 2014. The reason for the low levels of hydrocarbons detected at GWM1 and GWM3 in 2013 is unknown. There have been no known incidents at the facility likely to have caused contamination.

3.4 Noise Monitoring

The annual noise survey was carried out on the 14^{th} May 2014 at three onsite boundary monitoring (NI1 – NI3) locations and one offsite location (NI4). The survey was conducted when the site was fully operational and confirmed that noise emissions fully complied with the licence conditions and that the facility is not impacting negatively on the nearest sensitive receptors. A summary of the noise results is shown on Table 3.15.

Noise limits set out in the waste licence are considered applicable to Noise Sensitive Locations (NSLs). An inspection of the nearest NSLs during the survey indicated that facility

operations were not audible, and thus lower than the 55 dB daytime noise limit. The three onsite locations are dominated by facility activities but there are no NSLs in the vicinity of these locations. At NI4, GES emissions were not audible.

Table 3.15 Noise Monitoring Results 2014

Station	Time	L _{Aeq 30}	L _{AF10 30}	L _{AF90} 30 min dB	Specific level* dB	Noise audible
NI1	0903-0933	60	63	53	60	Telescopic loaders involved in bale export operation continuously clearly audible and dominant. Loader and yard sweeper truck also audible when operating at N end of yard. No other noise audible apart from local birdsong.
NI2	0937-1007	58	56	49	58	Telescopic loaders involved in bale export operation continuously clearly audible and dominant. Yard sweeper truck also audible when operating at nearest end of yard, particularly 0954-0957. No other noise audible.
NI3	0830-0900	58	59	53	58	Cardboard baler and conveyor plant audible in nearest building, in addition to mobile plant in building. Yard sweeper truck and truck movements audible in main yard. No other noise audible.
NI4	1016-1046	71	74	61	<<61	No site emissions audible. Passing road traffic continuously present, dominant and intrusive. No other noise audible.

^{*}Specific level: L_{Aeq} level considered attributable to facility during interval, determined using real time assessment, field notes, time history profiles, statistical analysis, frequency spectra, spectral statistics and near field correction if applicable.

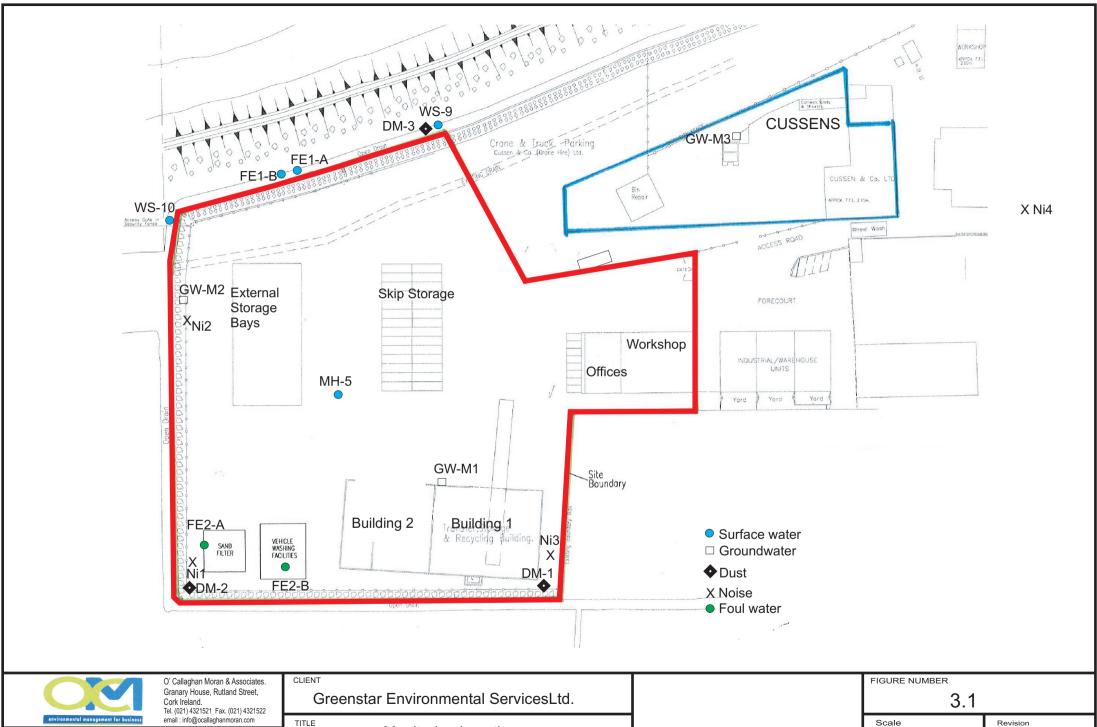
3.5 Dust Monitoring

Dust monitoring was carried out on two occasions (between May and September as required by the licence) at three on-site locations (DM1, DM2 and DM3) in May and August 2014. As required by the licence, a third monitoring event for outside this period (October – April) was conducted in December 2014. The results of the monitoring are included on Table 3.16.

The dust emission limit (350 mg/m²/day) was not exceeded at any monitoring location during the monitoring period.

Table 3.16 Dust Monitoring Results 2014

Dust Emission (mg/m²/day)	May 2014	August 2014	December 2014	Emission Limit
Sample Location	30 Days	30 Days	33 Days	(mg/m²/day)
DM1	73.3	68.9	59.2	350
DM2	42.3	185.4	74.1	350
DM3	57.2	237.4	27.4	350



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Monitoring Locations Limerick W0082-02

Not To Scale

Revision A

4. SITE DEVELOPMENT WORKS

4.1 Specified Engineering Works (SEW)

No Specified Engineering Works were completed during 2014 however the following structural improvement was completed.

• Install of entrance barrier and upgrade to site fencing.

4.2 Summary of Resource & Energy Consumption

Table 4.1 presents an estimate of the resources used on-site during the reporting period and for comparative purposes the volumes for 2012 and 2013.

Table 4.1 Estimate of Resources Used On-Site 2012, 2013 and 2014

Resources	Quantities 2014	Quantities 2013	Quantities 2012
Diesel (green)	82,432 litres	69,608 litres	60,000 litres
Electricity	298,451 kwh	126,266 kwh	113,567 kwh
Hydraulic Oil	3,000 Litres	4,500 litres	4,500 litres
Engine Oil	1,000 Litres	1,000 litres	1,500 litres
Mains Water	12,178m ³	11,873 m ³	8,200 m ³

4.3 Bund Integrity & Pipeline Testing

The Licence was Technically Amended on February 2nd 2011 and now includes condition 3.11.5 which states that the integrity testing of all underground pipelines and tanks must be carried out every 3 years. A new covered bund was installed in August 2013 around the diesel storage tank at the site and was tested immediately prior to installation. A separate stand alone bunded chemical store which is used for the storage of miscellaneous potentially hazardous materials (oil drums, paint cans etc) and quarantined wastes was also installed at the site in September 2013 Both were tested and passed fit for purpose and will be tested again in 2016.

The integrity of the surface water drainage system including the interceptor was assessed through a CCTV survey in 2012. Defects were subsequently addressed through a range of

civil works completed in May 2012. Further CCTV surveying of the surface water and foul water drains was again completed in November 2013 and the following works were completed in 2014.

- Surface water gullies jet-washed and cleaned in February and September 2014
- Klargestor de-sludged and cleaned in March and August 2014
- Interceptor de-sludged and cleaned in April 2014.

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 2014 is presented in the PRTR submission in Appendix 1.

The total quantity of waste received was 99,646.21 tonnes. For comparative purposes the amounts of waste received and consigned from 2008 to 2014 is presented in Table 5.2. The total waste consigned was 98,699.1 tonnes. The difference (947.11 tonnes) remained onsite at the end of 2014 pending removal offsite in 2015.

All the wastes consigned from the site went to authorised recovery and disposal facilities.

 Table 5.1
 Waste Received & Consigned 2014

EWC	Description	Waste In	Waste Out
15 01 01	Paper & cardboard packaging	4725.395	5,047.148
15 01 02	Plastic packaging	375.6	279.98
15 01 03	Wooden packaging		37.98
15 01 04	Metallic packaging	25.24	
15 01 06	Mixed packaging	1509.77	813.55
15 01 07	Glass Packaging		24.6
13 05 03	Interceptor sludges	30.84	
16 01 03	End of Life Tyres		4.42
16 06 01	Lead Batteries		0.397
17 01 07	Mixture of concrete, bricks, tiles and	246.26	3524.76
17 01 07	ceramics	240.20	3324.70
17 02 03	Plastic	18.98	
17 05 04	Soil & stones	30.4	
17 08 02	Gypsum-based construction	0.68	
17 00 02	materials	0.00	
17 09 04	Mixed construction and demolition	3200 976	67.76
17 07 04	wastes	3200.770	07.70
	Wastes whose collection and		
18 01 04	disposal is not subject to special	15.06	
10 01 01	requirements in order to prevent	4725.395 375.6 25.24 1509.77 30.84 246.26 18.98	
	infection		
19 05 02	Non-composted fraction of animal	3.28	
	and vegetable waste		
19 09 02	Sludges from water clarification		474.68
19 12 07	Wood		
19 12 09	Minerals		
19 12 12	Other wastes		1998.23
20 01 01	Paper & cardboard		669.14
20 01 02	Glass	248.28	189.72
20 01 08	Biodegradable kitchen and canteen	3462.515	3303.74
	waste Discarded electrical and electronic		
20 01 35	equipment	7.7	
	Discarded electrical and electronic		
20 01 36	equipment		
20 01 38	Wood	1173.02	1168.58
20 01 38	Plastics		1100.50
20 01 39	Metals		465.668
20 01 40	Biodegradable waste		97.34
20 02 01	Mixed municipal waste	+	74056.40
20 03 03	Street-cleaning residues		1709.06
20 03 07	Bulky waste	4835.299	4765.90
	Total Received	99.646.21	
	Total Consigned	,0 -0	98,699.10
	Disposal		6,192.40
	Recovery		92,506.683
	Recovery Rate		93.73%

 Table 5.3
 Waste Received & Consigned

	2013	2012	2011	2010	2009	2008
Total Received	87,928	55,992	32,550	34,835	42,536	58,203
Total Consigned	88,345	55,430	33,335	34,476	41,547	58,654

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

Throughout the year there were occasional exceedances of the performance standards in relation to surface water discharge for BOD (4 occasions), TSS (5 occasions) and Ammoniacal Nitrogen (3 occasions). In total, six incident reports were submitted in 2014.

All exceedances were treated as incidents and reported to the Agency, Limerick City & County Council and Inland Fisheries Ireland.

6.2 Register of Complaints

Greenstar maintains a register of complaints received in accordance with Condition 10.4 of the Licence. No complaints were received during the reporting period.

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 account the requirements of the Waste Licence Conditions. Greenstar has prepared and effectively implemented documented procedures and instructions in accordance with the requirements of both the OHSAS 18001:2007 and ISO 14001:2004. The facility is accredited to both standards.

The schedule of Objectives and Targets, including their status for 2014 (Table 7.1), as well as the proposed Objectives and Targets for 2015 (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: Dominic Broadhurst,

Responsibility: Operations Manager

Experience: 4 years waste management experience; Completed the CIWM-accredited

training course in Managing Waste and Waste Licence Compliance.

Name: Philip O'Sullivan

Responsibility: Yard Supervisor

Experience: 6 years waste management experience; Currently undertaking a CIWM -

accredited Waste Management Compliance course.

7.1.2 Staff Training

Staff training carried out during the year included environmental awareness training to key site staff as well as regular tool box talks. Details on staff training for 2014 are available in the facility office.

7.2 Environmental Management Programme

7.2.1 Schedule of Objectives 2014

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

7.2.2 Schedule of Objectives 2015

A schedule of targets and objectives for 2015 has been set by the management of the facility. These objectives are outlined in Table 7.2.

7.3 Communications Programme

Greenstar are committed to setting the standard in waste management and ensuring environmental compliance in all operations. In addition, Greenstar's Environmental, 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 Greenstar 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 Closure and Decommissioning Plan and an Environmental Liabilities Risk Assessment (ELRA) including Financial Provision (FP) were submitted to the Agency in 2013 as part of the transfer licence process. The Financial Provision proposed was approved prior to the completion of transfer in March 2014.

 Table 7.1
 Objectives and Targets for 2014

No.	Objective	Target	Timescale	Responsibility	Status
1	Improve Bird Control	Investigate bird control systems and commission measures.	- I I I I I I I I I I I I I I I I I I I		System installed
2	Hydrogeological Assessment	Complete Hydrogeological Assessment of the site in accordance with Condition 7.9 of Technical Amendment B	Q2	EHS	Complete
3	Decommission Klargester	Decommission the onsite Klargester WWTP following connection to the municipal sewer.	Council		Not Started
4	Install entrance barrier and upgrade to site fencing	Carry out improvements to site entrance including the installation of barriers and maintenance of site fencing.	Q3-Q4	Site Management / EHS	Completed
5	IED Licence Submission/determination	Submit an IED Licence application to increase capacity in line with planning permission	Q2	Site Management / EHS	Submitted
6	Connect the waste water emissions to the Local Authority WWTP	Progress the proposed connection of the foul water to the municipal WWTP	Q2 – Q3	Site Management / EHS	Request for Connection Issued to Council
7	Development and adoption of Fire Prevention Procedure at the facility	Reduce risk of fire and enable early detection	Q2	Site Management / EHS	New system installed
8	Review of Emergency Response Plan to incorporate fire prevention procedure and new structure	Revision of Plan and additional training for site personnel	Q2	Site Management / EHS	Emergency response plan in place.
9	Achieve re-certification to ISO 14001 and OHSAS 18001 standard	3 year certification period expires in 2014. The facility requires re-certification.	Q3/Q4	Site Management / EHS	Certification achieved
10	Develop and maintain traffic management plan at the facility	Review of all on-site traffic management	Q2/Q3	Site Management / EHS	Plan in place

11	Environmental Training of Facility Staff	Update training presentation and ensure training of key managerial staff	Q2/Q3	Site Management / EHS	D.Broadhurst completed CIWM accredited course
12	Site Signage	Facility Notice Boards to be replaced to reflect new ownership	Q1	Site Management / EHS	Completed

 Table 7.2
 Schedule of Objective and Targets 2015

No	Objective	Target	Responsibility	Timescale
1	Connect the waste water emissions to the Local Authority WWTP	Progress the proposed connection of the foul water to the municipal WWTP	Site Management / EHS	Q2 – Q3
2	Decommission Klargester	Decommission the onsite Klargester WWTP following connection to the municipal sewer.	EHS	Subject to Council Agreement
3	Environmental Training of Facility Staff	Update training presentation and ensure training of key managerial staff (Philip O'Sullivan)	Site Management / EHS	Q2 - Q3
4	Review of Emergency Response Plan to incorporate fire prevention procedure and new structure	Revision of Plan and additional training for site personnel	Site Management / EHS	Q2
5	Firewater Retention Risk Assessment Report	Preparation of Report to see if facility requires a fire water retention facility.	Site Management / EHS	Q4

6	Document a Preventative Maintenance (PM) plan for the inspection and cleaning of plant & equipment wrt fire	Incorporate into existing Site Inspection Database (EF-10A) and site specific PM plans	Site Management / EHS	Q1 - Q2
7	Document PM plan for all hardstand and drainage infrastructure on site	Incorporate into existing Site Inspection Database (EF-10A)	Site Management / EHS	Q1 - Q2
8	Review EWC codes in active use group wide and implement recommendations at each site	Review EWC codes with Finance/WIMS & advise changes to site management	EHS / Finance / WIMS	Q2 - Q3
9	Increase awareness of Odour Management on site group wide	Specify Odour detection in Site Inspection Database (EF-10A) on a daily basis and generate actions as appropriate	Site Management / EHS	Q1 - Q2
10	Track Energy Usage on site	Record electricity, gas, water and fuel consumption on site group wide	Site Management / EHS	Q2 - Q3
11	Installation of Dust Curtains on MRF Building	Install Dust Curtains on MRF Building	Site Management / EHS	Q2 – Q3

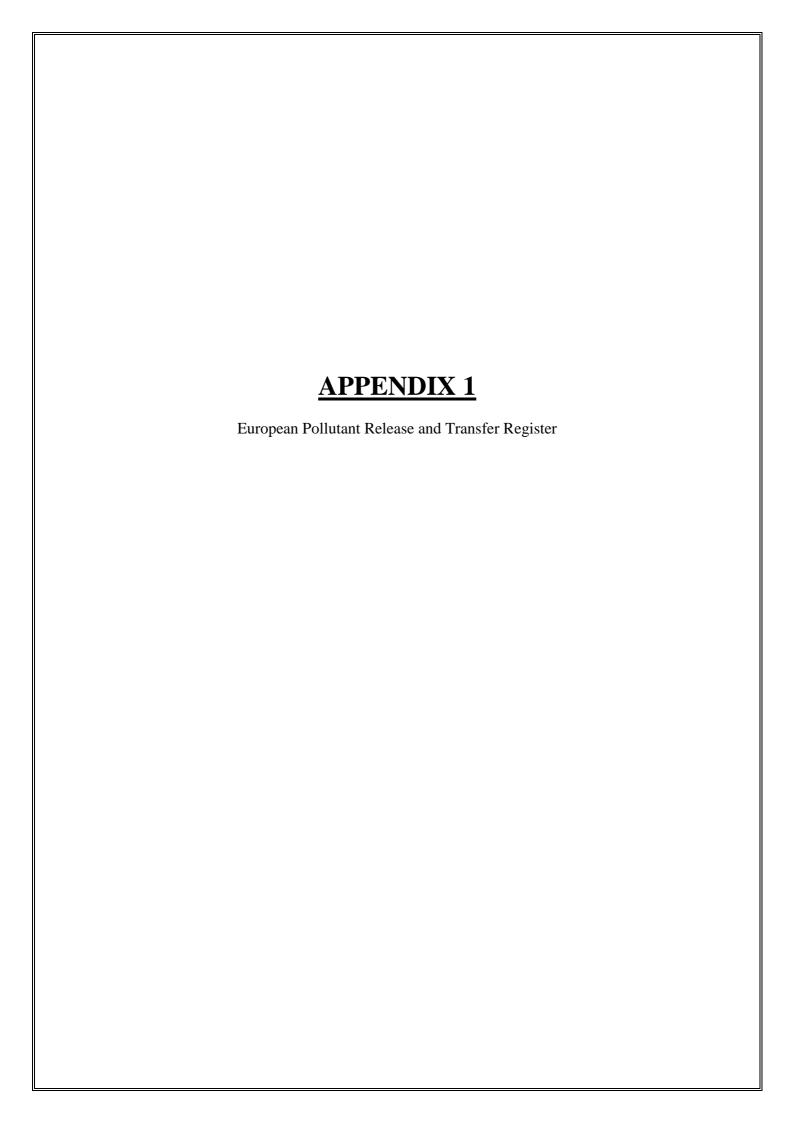
7.5 Nuisance Controls

Greenstar has contracted a vermin control company to carry out nuisance control at the facility. Rentokil Initial Ltd provides and maintains forty bait boxes at the facility and also carries out insect control measures as required. Weekly nuisance and litter inspections are carried out by the Environmental Officer and litter picks are carried out daily. Bird control system was introduced during 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 Greenstar are required to submit information annually to the Agency. A copy of the information submitted to the Agency via the web-based data reporting system is included in Appendix 1.





| PRTR# : W0082 | Facility Name : Starrus Eco Holdings Limited (Dock Road) | Filename : W0082_2014.xls | Return Year : 2014 |

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.18

REFERENCE YEAR 2014

1. FACILITY IDENTIFICATION

Parent Company Name	Starrus Eco Holdings Limited
Facility Name	Starrus Eco Holdings Limited (Dock Road)
PRTR Identification Number	W0082
Licence Number	W0082-02

Classes of Activity

· y	
o. class_name	No.
- Refer to PRTR class activities below	-

	Ballykeefe Townland
	Waste Management Section
Address 3	Dock Road
Address 4	Limerick
	Limerick
Country	
Coordinates of Location	-8.66662 52.651
River Basin District	IEGBNISH
NACE Code	
	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	
AER Returns Contact Email Address	malcolm.dowling@greenstar.ie
AER Returns Contact Position	
AER Returns Contact Telephone Number	01-2947949
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	
Number of Employees	25
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

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

| PRTR# : W0082 | Facility Name : Starrus Eco Holdings Limited (Dock Road) | Filename : AER Log In Details.xlsx | Return Year : 2014 | Page 1 of 2

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

| PRTR# : W0082 | Facility Name : Starrus Eco Holdings Limited (Dock Road) | Filename : AER Log In Details.xlsx | Return Year : 2014 | Page 2 of 2

4.1 RELEASES TO AIR

Link to previous years emissions data

| PRTR# : W0082 | Facility Name : Starrus Eco Holdings Limited (Dock Road) | Filename : W0082_2014.xls | Return Year : 2014 |

31/03/2015 15:35

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR			Please enter all quantities in this section in KGs							
POLLUTANT			MET	THOD		QUANTITY				
			Method Used							
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accident	al) 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

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

		Please enter all quantities in this section in KGs							
POLLUTANT			ME	THOD	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 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: Starrus Eco Holdings Limited (Dock Road)

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

4.2 RELEASES TO WATERS

Link to previous years emissions data

| PRTR# : W0082 | Facility Name : Starrus Eco Holdings Limited (Dock Road) | Filename : W0082_2014.xls | Return Year : 2014 |

31/03/2015 15:36

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as t

		Please enter all quantities in this section in KGs							
POLLUTANT					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	

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

SECTION B: REMAINING PRTR POLLUTANTS

I		RELEASES TO WATERS				Please enter all quantiti	es in this section in	n KGs		
	POL	LUTANT						QUANTITY		
ı					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
1						(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 KG	is		
POI	LLUTANT				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

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

| PRTR# : W0082 | Facility Name : Starrus Eco Holdings Limited (Dock Road) | Filename : W0082_2

31/03/2015 15:36

SECTION A: PRTR POLLUTANTS

	OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR	WASTE-WATER TRE	EATMENT OR SE	WER	Please enter all quantities in this section in KGs					
POLLUTANT				METHOD	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/Y	ear 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)

OLOTION D : REIMAINING OLEOTARY EIM	Solono (as required in your Election)								
OFFSITE TRAN	SFER OF POLLUTANTS DESTINED FOR WASTE-V	EATMENT OR SEWER		Please enter all quantities	in this section in KG	5			
PO	LLUTANT		METHO	D	QUANTITY				
			Met	hod Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	Α	(Accidental) KG/Year	F (Fugitive) KG/Ye
					0.0		0.0	0.0	

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

Link to previous years emissions data Page 1 of 1

4.4 RELEASES TO LAND

Link to previous years emissions data

| PRTR# : W0082 | Facility Name : Starrus Eco Holdings Limited (Dock Road) | Filename : W0082_2014.xls | Return Year : 2014 |

31/03/2015 15:36

SECTION A : PRTR POLLUTANTS

	RELI	EASES TO LAND			Please enter all quanti	ties 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
						0.0	0.0

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

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

	RELEASES TO LAND			Please enter all quantities	in this section in KGs	
	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
				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#: W0082 | Facility Name : Starrus Eco Holdings Limited (Dock Road) | Filename : W0082_2014.xls | Return Year : 2014 |

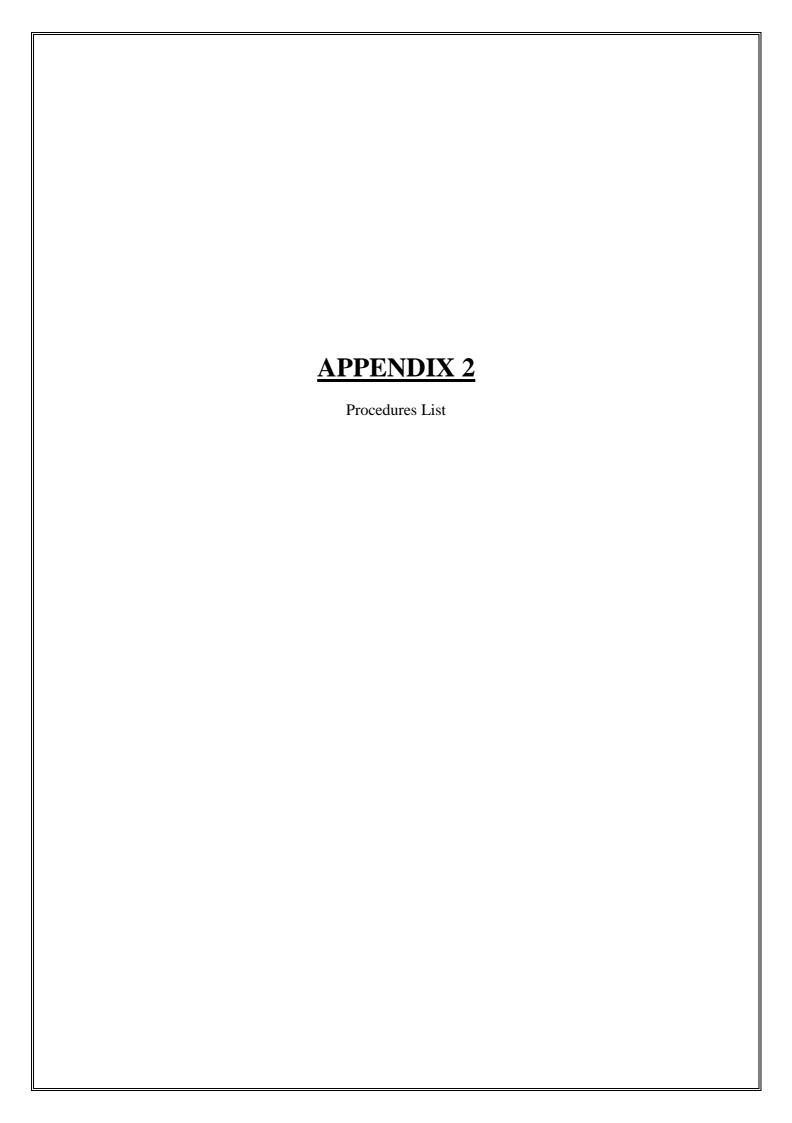
31/03/2015 15:37

					Please enter a	all quantities on this sheet in Tonnes	,							40
Part														
Part												Haz Waste : Address of Next	Name and License / Permit No. and	
Paralle Perspan Water Paralle Perspan Water Paralle														Actual Address of Final Destination
Parameter Destroation														i.e. Final Recovery / Disposal Site
					Year)		144		Method Used		Recover/Disposer	Recover/Disposer	ONLY)	(HAZARDOUS WASTE ONLY)
Transfer Description			F W							1				
Within the Country 15 01 01 No 171 AC paper and carboard packaging R13 M Weighed Official in levinary 15 01 01 No 152 A paper and carboard packaging R13 M Weighed Official in levinary 15 01 01 No 153 1 A paper and carboard packaging R13 M Weighed Official in levinary 15 01 01 No 153 1 A paper and carboard packaging R13 M Weighed Official in levinary 15 01 01 No 276 5 8 paper and carboard packaging R13 M Weighed Official in levinary 15 01 01 No 270 7 8 paper and carboard packaging R13 M Weighed Official in levinary 15 01 01 No 270 7 8 paper and carboard packaging R13 M Weighed Official in levinary 15 01 01 No 102 6 8 paper and carboard packaging R13 M Weighed Official in levinary 15 01 01 No 102 6 8 paper and carboard packaging R13 M Weighed Official in levinary 15 01 01 No 102 6 8 paper and carboard packaging R13 M Weighed Official in levinary 15 01 01 No 102 6 8 paper and carboard packaging R13 M Weighed Official in levinary 15 01 01 No 102 6 8 paper and carboard packaging R13 M Weighed Official in levinary 15 01 01 No 102 6 8 paper and carboard packaging R13 M Weighed Official in levinary 15 01 01 No 102 6 8 paper and carboard packaging R13 M Weighed Official in levinary 15 01 02 No 102 4 8 paper and carboard packaging R13 M Weighed Official in levinary 15 01 02 No 102 4 8 paper and carboard packaging R13 M Weighed Official in levinary 15 01 02 No 102 4 8 paper and carboard packaging R13 M Weighed Official in levinary 15 01 02 No 102 4 8 paper and carboard packaging R13 M Weighed Official in levinary 15 01 02 No 102 4 8 paper and carboard packaging R13 M Weighed Official in levinary 15 01 02 No 102 4 8 paper and carboard packaging R13 M Weighed Official in levinary 15 01 02 No 102 4 8 paper and carboard packaging R13 M W	Transfer Destin	otion		Hazardaua		Description of Waste		M/C/E	Mothod Lload					
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Minish the Country 15 01 01											Agnail Ltd TES Broker			
Weight the Courts 15 01 01 No 1431 44 paper and careboard packaging R13 M Weighted Offstein inlevel of Lexivority 15 01 01 No 1431 44 paper and careboard packaging R13 M Weighted Offstein inlevel of Record	Within the Cou	ntrv	15 01 01	No	717.82	paper and cardboard packaging	R13	М	Weighed	Offsite in Ireland				
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Within the Country 15 01 07 No 24.6 glass packaging R5 M Weighed Offsite in Ireland Country 15 01 07 No 24.6 glass packaging R5 M Weighed Offsite in Ireland Country 16 01 03 No 4.42 end-of-life tyres R3 M Weighed Offsite in Ireland KMK Metals ,W0113- 03, Tullamore,Co. 07 Jullamore,Co. 07 Jul		,							3			.,Fassaroe,Bray,Co.		
Within the Country 15 01 07 No 24.6 glass packaging R5 M Weighed Offsite in Ireland Crumb Rubber,WFP-LH-10 Crumb R	Within the Cou	ntry	15 01 06	No	159.68	mixed packaging	R3	M	Weighed	Offsite in Ireland				
Within the Country 16 01 03 No 4.42 end-of-life tyres R3 M Weighed Offsite in Ireland KMK Metals, W0113-03, Tullamore, Co. Within the Country 16 06 01 Yes 0.397 lead batteries mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 Crumb Rubber, WFP-LH-10, Dromiskin, Dundalk, Co. Louth, Ireland 0005-01 Louth, Ireland 0005-01 KMK Metals, W0113-03, Tullamore, Co. 03, Tullamore, Co. 03, Tullamore, Co. 03, Tullamore, Co. 04 Mallow, Mourneabbey, Co														
Within the Country 16 01 03 No 4.42 end-of-life tyres R3 M Weighed Offsite in Ireland KMK Metals ,W0113- 03,,Tullamore,Co. Within the Country 16 06 01 Yes 0.397 lead batteries mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 September 17 September 18 September 19 Septe	Within the Cou	ntry	15 01 07	No	24.6	glass packaging	R5	M	Weighed	Offsite in Ireland				
KMK Metals ,W0113- 03,,Tullamore,Co,Tullamore,Co. 03,,Tullamore,Co. 03,,Tullamore,Co,Tullamore,Co,Tullamore,Co,Tullamore,Co,Tullamore,Co,Tullamore,Co,Tullamore,Co,Tullamore,Co,Tullamore,Co,Tullamore,Co,Tullamore,Co,Tullamore,Co,Tullamore,Co,Tullamore,Co,Tullamore,Co,Tullamore,Co,Mallow,Mourneabbey,Co	Within the Cour	ntr./	16.01.03	No	4.40	end-of-life tyres	D3	M	Weighed	Officite in Iroland				
Within the Country 16 06 01 Yes 0.397 lead batteries R4 M Weighed Offsite in Ireland Offaly, I	within the Cou	шу	10 01 03	INU	4.42	enu-or-me tyres	N3	IVI	vveigned	Onsite in freiand		Louin,ireland	KMK Metals W0113-	
Within the Country 16 06 01 Yes 0.397 lead batteries R4 M Weighed Offsite in Ireland Offaly, I												Tullamore.Co		Tullamore.Co
mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 Mallow,Mourneabbey,Co	Within the Cou	ntry	16 06 01	Yes	0.397	lead batteries	R4	M	Weighed	Offsite in Ireland				
											•			
Within the Country 17 01 07 No 3092.8 01 06 R5 M Weighed Offsite in Ireland Contracts, CK(No)277/5 Cork, Ireland														
	Within the Cou	ntry	17 01 07	No	3092.8	01 06	R5	M	Weighed	Offsite in Ireland	Contracts, CK(No)277/5	Cork, Ireland		

						1			T			
									Haz Waste: Name and Licence/Permit No of Next			
			Quantity						Destination Facility Non Haz Waste: Name and	Haz Waste : Address of Next Destination Facility	Name and License / Permit No. and Address of Final Recoverer /	Actual Address of Final Destination
			(Tonnes per						Licence/Permit No of	Non Haz Waste: Address of	Disposer (HAZARDOUS WASTE	i.e. Final Recovery / Disposal Site
			Year)				Method Used		Recover/Disposer	Recover/Disposer	ONLY)	(HAZARDOUS WASTE ONLY)
	Furancan Wasta				Waste			Location of				
Transfer Destination	European Waste Code	Hazardous		Description of Waste	Treatment Operation	M/C/F	Method Used	Treatment				
Transfer Bootination	0000	Tidzardodo		mixture of concrete, bricks, tiles and	орогалон	111/0/2	moulou occu	Hodinon		Ballysheen		
				ceramics other than those mentioned in 17					Fergal O'Grady,COR-CE-09-			
Within the Country	17 01 07	No	431.96		R5	M	Weighed	Offsite in Ireland	0004-01	Clare,.,Ireland		
				mixed construction and demolition wastes other than those mentioned in 17 09 01, 17					Mallow	Mourneabbey,Co		
Within the Country	17 09 04	No		09 02 and 17 09 03	R5	M	Weighed	Offsite in Ireland	Contracts, CK(No)277/5	Cork,Ireland		
					_				Gortnaduma Landfill,W0017-			
Within the Country	19 09 02	No		sludges from water clarification	D5	М	Weighed	Offsite in Ireland	03	.,,,,Co Limerick,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	24.56		D5	M	Weighed	Offsite in Ireland	Bord na Mona,W0201-03	.,,,,,,Ireland		
				other wastes (including mixtures of materials) from mechanical treatment of								
				wastes other than those mentioned in 19 12					Wiser Bins Ltd,WFP-CC-	Centre Park		
Within the Country	19 12 12	No	600.38		R13	M	Weighed	Offsite in Ireland		Road,Cork,.,,Ireland		
				other wastes (including mixtures of								
				materials) from mechanical treatment of wastes other than those mentioned in 19 12						.,Fassaroe,Bray,Co.		
Within the Country	19 12 12	No	107.78		R13	М	Weighed	Offsite in Ireland	MRF Bray,W0053-03	Wicklow, Ireland		
Triami alo oculla,	.0 .2 .2			other wastes (including mixtures of			Troigilou	Onoite in incland				
				materials) from mechanical treatment of								
Within the Country	10 12 12	No	1265.51	wastes other than those mentioned in 19 12	R13	М	Weighed	Offsite in Ireland	Greenstar Millennium,w0183-	Ballycoolin,.,,,Dublin,Ireland		
Willim the Country	13 12 12	140	1200.01		KIS	IVI	vveigned	Offsite in freiand	01	.,Fassaroe,Bray,Co.		
	20 01 01	No		paper and cardboard	R3	M	Weighed		MRF Bray,W0053-03	Wicklow, Ireland		
Within the Country	20 01 01	No	27.26	paper and cardboard	R3	M	Weighed	Offsite in Ireland	Shred It Ireland,.	.,,,,,,lreland		
Within the Country	20.01.01	No	63.96	paper and cardboard	R3	М	Weighed	Offsite in Ireland	Bailey Waste Recycling Ltd,WPT-FG-08-0002-01	Rosemount,Ballycoolin,Dubli n 11,.,Ireland		
Triami alo oculla,	200.0.		00.00	paper and caraboard			Troignou	Onono in moidina	2.0,111 1 1 0 00 0002 01	Ti Ti,, Totalia		
										Waterside		
To Other Countries	20.01.01	No	80.68	paper and cardboard	R3	М	Weighed	Abroad	Northwood Recycling Ltd,IRE/G282/15	Disley, Stockport, Cheshire, S K12 2HW, United Kingdom		
To Other Countries	200101	140	00.00	paper and cardboard	11.5	IVI	vveigned	Abroad	Ltd,INE/0202/13	Egerton House, Towers		
										Business Park, Wilmslow		
T 011 0 11	00.04.04		407.0		Do.				MLM Itd T/A ACN Europe	Road Didsbury,M20		
To Other Countries	20 01 01	No	127.8	paper and cardboard	R3	М	Weighed	Abroad	UK,TFS Broker IRE/G022/11 Marwin Environmental	2DA,Officed Kingdom		
									Trading LTD,TFS Broker			
Within the Country	20 01 01	No	49.48	paper and cardboard	R3	M	Weighed	Offsite in Ireland	IRE/AG027/11	.,.,,Cork,Ireland		
Within the Country	20.01.02	No	E0 E0	glass	R5	М	Weighed	Offsite in Ireland	Clonmel Waste Disposal Ltd,WP-008-02	Lawlesstown,Clonmel,.,Co Tipperary,ireland		
within the Country	20 01 02	INU	30.30	ylass	No	IVI	weighed	Offsite in freiand	Ltu, VVF = 000=02	ripperary,ireland		
										Osberstown Business		
Within the Country	20.01.02	No	120.46	aloce	DE	M	Majahad	Officito in Iroland	Glassco Recycling Ltd,WFP-			
Within the Country	20 01 02	No	139.16	yıass	R5	М	Weighed	Offsite in Ireland	NE-00-0307-01	Kildare,Ireland Ballybeg Composting		
									Acorn Recycling Ltd,. W0249-			
Within the Country	20 01 08	No	3213.92	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	01	Tipperary, Ireland		
Within the Country	20 01 08	No	89.82	biodegradable kitchen and canteen waste	R3	М	Weighed	Offsite in Ireland	Clonmel Waste Disposal Ltd,WP-008-02	Lawlesstown,Clonmel,.,Co Tipperary,ireland		
			00.02	waste			o.goa	II II CIGIIG	Clonmel Waste Disposal	Lawlesstown,Clonmel,.,Co		
Within the Country	20 01 38	No	1168.58	wood other than that mentioned in 20 01 37	R13	M	Weighed	Offsite in Ireland	Ltd,WP-008-02	Tipperary,ireland		
									Clearcircle metals (Limerick),WFP-LKC-11-001-	Rallysimon		
Within the Country	20 01 40	No	415.128	metals	R4	M	Weighed	Offsite in Ireland		Road,Limerck,.,,,Ireland		
,							, and the second			Eastway Business		
Within the Country	20.01.40	No	E0 E4	metals	R4	М	Weighod	Offsite in Ireland	United Metals, WFP-LK-2013-	Park,Ballysimon,Limerick,.,Ir eland		
Within the Country	20 01 40	INU	50.54	metais	N4	IVI	Weighed	Onsite in freiand	147A-K1	eiailu		

									Haz Waste : Name and			
									Licence/Permit No of Next			
			Quantity						Destination Facility Non Haz Waste: Name and	Haz Waste: Address of Next Destination Facility	Name and License / Permit No. and Address of Final Recoverer /	Actual Address of Final Destination
			(Tonnes per						Licence/Permit No of	Non Haz Waste: Address of	Disposer (HAZARDOUS WASTE	i.e. Final Recovery / Disposal Site
			Year)				Method Used		Recover/Disposer	Recover/Disposer	ONLY)	(HAZARDOUS WASTE ONLY)
					Waste				· ·			, ,
	European Waste				Treatment			Location of				
Transfer Destination	Code	Hazardous		Description of Waste	Operation	M/C/E	Method Used	Treatment				
	•	•		·			•	•	Clonmel Waste Disposal	Lawlesstown,Clonmel,.,Co		
Within the Country	20 02 01	No	97.34	biodegradable waste	R3	M	Weighed	Offsite in Ireland	Ltd,WP-008-02	Tipperary,ireland		
										.,Carrowbrowne,Headford		
Within the Country	20 03 01	No	442.53	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Road, Galway, Ireland		
Within the Country	20 03 01	No	985.46	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Bord na Mona,W0201-03	.,.,,,Ireland		
									Dillon Waste,WFP-KY-10-	The		
Within the Country	20 03 01	No	21.6	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	001	kerries,Tralee,Kerry,.,Ireland		
									Indaver Carlanstown,W0167-			
	20 03 01	No		mixed municipal waste	R1	М	Weighed	Offsite in Ireland	02	Meath,.,Ireland		
To Other Countries	20 03 01	No	21123.59	mixed municipal waste	R13	M	Weighed	Abroad	indaver AB Fortum,.	.,.,,,,lreland		
To Other Countries	20.02.04	No	0440 40	mived municipal weeks	D42	М	Majahad	Abroad	Indaver Avi	irolond		
To Other Countries		No		mixed municipal waste mixed municipal waste	R13 R13	M	Weighed	Abroad	Abfallverwertung,. Indaver (EON Delfrizijl),.	.,,,,,,ireland		
To Other Countries		No		mixed municipal waste	R13	M	Weighed	Abroad	Indaver (Eon Swedeb),.	.,,,,,lreland		
To Other Countries	20 03 01	INO	14020.03	mixed municipal waste	KIS	IVI	Weighed	Abibau	Kilarney Waste	.,.,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Within the Country	20 03 01	No	136.08	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Disposal,W0217-01	Kilarney ,,,,,Co Kerry,Ireland		
Within the Country	20 00 01	140	100.00	mixed manierpal radio	1010		Weighted	Olisite ili licialia	Gortnaduma Landfill.W0017-	rainey ,,,,,ee nerry, relaine		
Within the Country	20 03 01	No	1033.44	mixed municipal waste	D5	M	Weighed	Offsite in Ireland		.,,Co Limerick,Ireland		
,									Gortnaduma Landfill,W0017-	,,,,,===		
Within the Country	20 03 01	No	1117.44	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	03	.,.,,Co Limerick,Ireland		
•				•			· ·			.,Fassaroe,Bray,Co.		
Within the Country	20 03 01	No	14.28	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	MRF Bray,W0053-03	Wicklow, Ireland		
										.,Fassaroe,Bray,Co.		
Within the Country	20 03 01	No	244.73	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	MRF Bray,W0053-03	Wicklow, Ireland		
										.,Fassaroe,Bray,Co.		
Within the Country	20 03 01	No	5121.39	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	MRF Bray,W0053-03	Wicklow, Ireland		
									0. 5 11.15	Six Cross		
Mishin the Original	00.00.04	NI-	07.00	mived municipal weeks	D40		Material	O#-it- i- ll	Starrus Eco Holdings	Roads, Carriganard, Butlersto		
Within the Country	20 03 01	No	27.96	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Ltd,W0116-02	wn,Waterford,Ireland		
									Dillon Waste,WFP-KY-10-	The		
Within the Country	20 03 01	No	10633 22	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	001	kerries, Tralee, Kerry,., Ireland		
	20 03 03	No		street-cleaning residues	D5	M	Weighed			.,.,,,,lreland		
are country			22.04	and a second sec				2 o.to o.di la	Gortnaduma Landfill,W0017-	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Within the Country	20 03 03	No	145.6	street-cleaning residues	D5	M	Weighed	Offsite in Ireland	03	.,,Co Limerick,Ireland		
,				- C			•			.,Fassaroe,Bray,Co.		
Within the Country	20 03 03	No			R13	M	Weighed	Offsite in Ireland	MRF Bray,W0053-03	Wicklow, Ireland		
Within the Country	20 03 07	No	60.82	bulky waste	D5	M	Weighed	Offsite in Ireland	Bord na Mona,W0201-03	.,.,,,,Ireland		
									Gortnaduma Landfill,W0017-			
	20 03 07	No		bulky waste	D5	M	Weighed	Offsite in Ireland		.,.,,Co Limerick,Ireland		
Within the Country	20 03 07	No	2305.48	bulky waste	D5	M	Weighed	Offsite in Ireland	Drehid Landfill,W0201-03	Carbury,,,,Kildare,Ireland		
Middle to the Original	00.00.07	NI-	4074 70	h	D40		Martine	Official in Irol	MDE D 14/0050 00	.,Fassaroe,Bray,Co.		
Within the Country	20 03 07	No	19/1.76	bulky waste	R13	M	Weighed	Offsite in Ireland	MRF Bray, W0053-03 Greenstar Millennium, w0183-	Wicklow, Ireland		
Within the Country	20.03.07	No	405.26	bulky waste	R13	М	Weighed	Offsite in Ireland		Ballycoolin,,Dublin,Ireland		
within the Country	20 03 07			he Description of Waste then click the delete button	ICIO	IVI	Weighted	Onsite in Heland	U1	Daily Coolin,.,., Dublin, Ireland		

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







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Oliver Callan - Group H&S ManagerPage 1 of 2

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