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ANNUAL ENVIRONMENTAL REPORT

STARRUS ECO HOLDINGS LTD

DEEP WATER QUAY SLIGO

LICENCE NO. W0058-01

JANUARY 2014 – DECEMBER 2014

Prepared For: -

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Project	Annual En	Annual Environmental Report 2014					
Client	Greenstar W0058-01	Greenstar W0058-01					
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TABLE OF CONTENTS

PAGE

1.	INTRODUCTION	1
2.	SITE DESCRIPTION	2
	2.1 SITE LOCATION AND LAYOUT 2.2 WASTE MANAGEMENT ACTIVITIES 2.2.1 Waste Types 2.2.2 Plant List	2 2
3.	EMISSION MONITORING	5
	3.1 SURFACE WATER MONITORING 3.2 GROUNDWATER MONITORING. 3.3 FOUL WATER MONITORING 3.4 NOISE SURVEY 3.5 DUST MONITORING 3.6 LANDFILL GAS MONITORING	7 8 9
4.	SITE DEVELOPMENT WORKS 1	3
	4.1 ENGINEERING WORKS	
5.	WASTE RECEIVED AND CONSIGNED 2014 1	
6.	ENVIRONMENTAL INCIDENTS AND COMPLAINTS 1	8
6.		1 8
6.	ENVIRONMENTAL INCIDENTS AND COMPLAINTS 1 5.1 INCIDENTS 1	1 8 18 18
6. () () () () () () () () () () () () ()	ENVIRONMENTAL INCIDENTS AND COMPLAINTS	18 18 19 20 20 20 20 20
6. () () () () () () () () () () () () ()	ENVIRONMENTAL INCIDENTS AND COMPLAINTS 5.1 INCIDENTS 1 5.2 REGISTER OF COMPLAINTS 1 ENVIRONMENTAL DEVELOPMENT 7.1 ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT 1 7.1.1 Site Management Structure 1 7.1.2 Staff Training 2 7.2 ENVIRONMENTAL MANAGEMENT PROGRAMME PROPOSAL 2 7.2 Schedule of Objectives 2014 2 7.2.1 Schedule of Objectives 2015 2 7.3 COMMUNICATIONS PROGRAMME 2	18 18 19 20 20 20 20 20 20 20 20 20 20 20 20 20

APPENDIX 1 - European Pollutant Release and Transfer R	egister
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APPENDIX	2	-	Procedures List
	-		I TOUCGAILOD LIDU

1. INTRODUCTION

This is the 2014 Annual Environmental Report (AER) for the Starrus Eco Holdings Ltd (Greenstar), Materials Recovery & Transfer facility (MRF) at Deep Water Quay, Sligo. It covers the period from the 1st January 2014 to the 31st 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 B of the Waste Licence (Reg. No. W0058-01) and the report format follows guidelines set in the "Guidance Note for Annual Environmental Report" issued by the Environmental Protection Agency (Agency)¹. Account is also taken of the AER Draft Guidance Document and AER Information Templates issued by the Agency in January 2013².

¹ EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency

² EPA (Environmental Protection Agency) 2012 Draft AER Guidance Document

2. SITE DESCRIPTION

2.1 Site Location and Layout

The facility is located at Deepwater Berths Road, approximately 1.5 km northwest of Sligo town centre and 1 km from a relief road linking the N4 to the N15.

The licensed area, which encompasses approximately $11,000 \text{ m}^2$ and is accessed off the Deepwater Berths Road, is occupied by one waste transfer building, site offices, open yard areas and a civic amenity area.

The main building encompasses approximately $2,322 \text{ m}^2$ and is divided into three bays. The site offices, which are located beside the main entrance, comprise a two storey building encompassing approximately 84 m². The north western yard is paved with concrete and provides access to the waste processing building. The south-eastern yard is also paved and comprises the civic amenity area and an open paved yard area.

2.2 Waste Management Activities

The facility is licensed to accept 100,000 tonnes per annum of household waste, commercial waste, industrial non-hazardous waste and construction and demolition waste for processing and/or transfer for disposal or recovery.

2.2.1 Waste Types

The facility is licensed to accept the following waste types: -

- Household (41,400 tonnes);
- Commercial (4,600 tonnes);
- Industrial Non-hazardous (45,000 tonnes);
- Construction & Demolition (C&D) (9,000 tonnes);

No hazardous wastes or liquid waste are accepted.

Waste bulking and segregation take place inside the waste transfer building, as specified in Condition 5.1 of the Licence and includes:

- Segregation of recyclable material (paper, cardboard, plastic, wood, aluminium cans);
- Baling of segregated materials;
- Sorting and segregation of C&D waste;
- Bulking up of Municipal Solid 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. It is then bulked up in the waste transfer building and loaded into large bulk transporters for consignment to an appropriately licensed landfill. Source segregated household dry recyclables are baled and stored prior to transfer to permitted/licensed off-site recycling facilities.

Commercial and Industrial Waste

Both mixed and segregated commercial waste is collected from commercial outlets. Commercial waste containing many recyclable waste streams (paper, cardboard, glass, metal, green waste and wood) is delivered to the facility 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. Biodegradable wastes that are suitable for composting are sent to an offsite authorised composting facility. The remaining non-recyclable material is bulked and sent to appropriately licensed landfills/recovery 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 waste loads are inspected and then bulked. The majority of the incoming material is recovered and sent off-site either for re-use or recycling at authorised facilities. The non-recyclable elements are transferred to a licensed landfill.

Civic Amenity Area

The civic amenity area is located to the south-east of the waste transfer building and has its own dedicated entrance for members of the public. There are a number of dedicated closed skips for MSW, dry recyclables (cardboard, plastics, metals, papers etc) and WEEE.

In September 2014 a bale & wrap operation commenced on site with the addition of a Flexus baler. Permission had previously been granted for this activity by the Agency with specific conditions attached.

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	Standby Capacity
1	Baler	Boa	7t/hr	7/t/wk
1	Paper Shredder	Alleghney	500kg/hr	500kg/hr
5	Trucks	Skip Trucks *3	60hr/wk	-
5	TTUCKS	Refuse Trucks *4	60hr/wk	-
1	Hook Lifter	Scania	65hr/wk	-
1	Loading Shovel	Caterpillar 938G	70t/hr	-
1	Fork Lift	Yale x2	65hr/wk	-
	Trommel	Powerscreen	60t/hr	
1	Grab	Fuchs MHL340	25t/hr	-
1	Weighbridge	Avery Weightronic	46hr/wk	-

Table 2.1 Plant List – 2014

3. EMISSION MONITORING

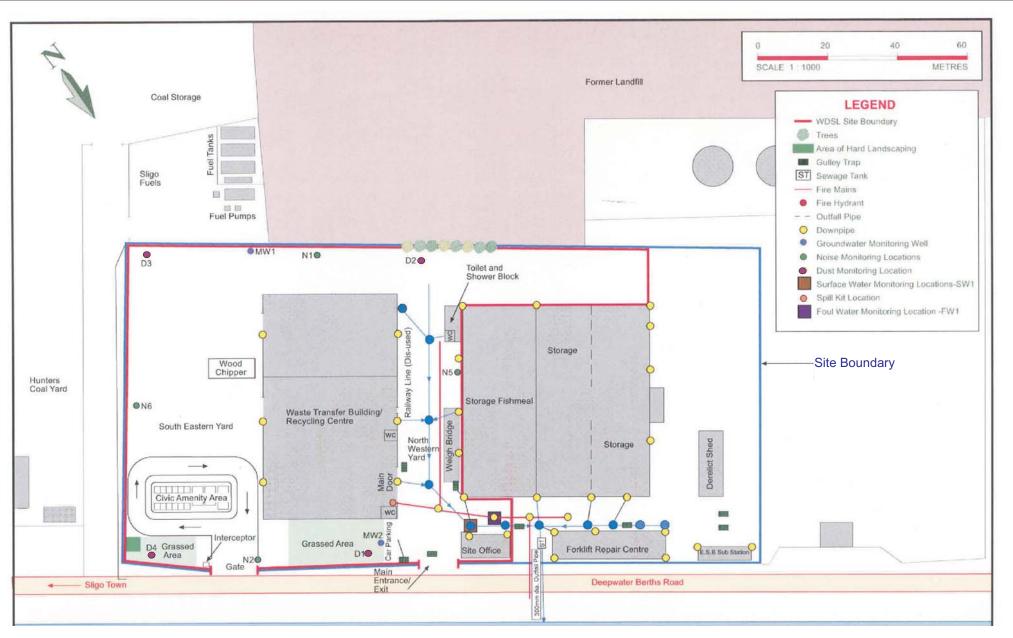
Greenstar implements a comprehensive environmental monitoring programme to assess the significance of emissions from site activities as per Schedule E of the Waste Licence. The programme includes surface water, foul water, groundwater, noise, landfill gas and dust monitoring. The monitoring locations are shown on Figure 3.1. The monitoring results are submitted to the Agency at quarterly intervals. An overview of the monitoring conducted in 2014 is presented in this Section. The Agency attempted to collect water samples on the 11th December 2014. No samples were collected however due to a lack of flow.

3.1 Surface Water Monitoring

The surface water drainage system, serving roofed and open yard areas, discharges via a silt trap and petrol/oil interceptor to the Garavogue River. The interceptor and drains are cleaned as required.

Surface water monitoring is carried out in accordance with Condition 9.2 and Schedule E of the Licence at quarterly intervals at the final discharge point (SE-2). The range of analysis is as specified in Schedule E and includes pH, electrical conductivity, Chemical Oxygen Demand (COD), Biological Oxygen Demand (BOD), ammoniacal nitrogen, chloride, surfactants, total suspended solids (TSS), mineral oils, and oils, fats and greases.

The results, which are shown on Table 3.1, indicate the discharge is generally of good quality. The ELVs were complied with 100% in the reporting period.



<u>C</u>	O' Callaghan Moran & Associates. Granary House, Rutland Street, Cork Ireland. Tel. (021) 4321521 Fax. (021) 4321522	CLIENT Greenstar Sligo	Details © Ordnance Survey Ireland. Government of Ireland.	FIGURE NUMBER 3.1	
This drawing is the property of O'Callagi be used, reproduced or disclosed to anyo of O'Callaghan Moran & Associates a	ne without the prior written permission	TITLE Monitoring Locations		Scale Not To Scale	Revision A

Parameter	Units	SE-2 Q1 2014	SE-2 Q2 2014	SE-2 Q3 2014	SE-2 Q4 2014	Emission Limit (Grab Sample)
pH	pH units	6.91	6.74	7.2	7.17	6 – 9
Chloride	mg/l	2.7	**	0.285	19.9	N/A
Ammoniacal Nitrogen	mg/l	0.489	0.878	0.726	0.2	N/A
COD	mg/l	16	52	29	15	N/A
BOD	mg/l	**	11	8	3	24
Total Suspended Solids	mg/l	12	<2	<2	34	36
Surfactants	mg/l	<0.1	0.108	0.063	1.2	N/A
Mineral Oils	mg/l	< 0.01	< 0.01	0.257	< 0.01	N/A
Oils, Fats & Greases	mg/l	<1	1.08	<1	< 0.01	12
Total Coliforms	MPN/100ml	N/A	N/A	N/A	1,046.2	N/A
Faecal Coliforms	cfu/100ml	N/A	N/A	N/A	54	N/A

Table 3.1Surface Water Results for 2014

N/A - not applicable

*Condition 7.7.1.3. No grab sample shall exceed 1.2 times the emission limit value.

** Results not available due to laboratory instrument failure

*** Results nor available due to bottle breakage in transit to laboratory

3.2 Groundwater Monitoring

There are no direct or indirect emissions to ground from the facility. Groundwater monitoring is carried out annually at two locations (MW1 and MW2) shown on Figure 3.1. MW1 is located on the southern boundary of the site in an open paved yard area, and MW2 is at the northern boundary near the main entrance to the site. MW1 is upgradient of site activities, while MW2 is downgradient.

The laboratory analysis included the annual range of parameters specified in Schedule E5 of the Licence. The parameters were ammoniacal nitrogen, BOD, chloride, mineral oils, pH, faecal coliforms and total coliforms.

The methodologies were all ISO/CEN approved or equivalent. There are no trigger limits set in the Licence and the results are compared to the Interim Guideline Values (IGV) on groundwater quality published by the Agency and the Groundwater Threshold Values (GTV) set out in the European Communities Environmental Objectives (Groundwater) Regulations (S.I. 9 of 2010). The IGVs are not statutory, but were developed to assist in the assessment of impacts on groundwater quality. The IGVs are based on, but are more conservative than the Drinking Water quality standards. GTVs have only been established for core indicator parameters. The summary results for 2014 are shown on Table 3.2.

The closed Finiskiln landfill is immediately south west and up hydraulic gradient of the site. The landfill was operated by Sligo Borough Council from 1958 to 1994 and was used for the disposal of municipal solid waste. The Garavogue River estuary is immediately north of the site.

The elevated ammoniacal nitrogen may be attributable to the former landfill. Elevated chloride has been detected in the groundwater in the recent past and is likely associated with saltwater intrusions from the estuary.

The mineral oil level in MW-1 (272.88mg/l) is significantly lower than that recorded in May 2013 (675mg/l). MW1 is approximately 5m from a neighbouring kerosene and diesel distribution centre. There are no on-site sources of hydrocarbon contamination in the vicinity of this well and it is understood that the source of the contamination is a leak that occurred at the distribution centre.

Oil contamination was initially detected in MW1 in 2006 and at that time Greenstar informed the distribution centre, the Agency and Sligo County Council of the presence of the contamination. In April 2010, Greenstar also met with the Agency and the Council to discuss the persistent presence of oil in MW-1. At the meeting it was generally agreed that the source was likely the neighbouring facility. A copy of all groundwater monitoring reports including this report is sent to the Council for their information.

The groundwater quality is generally consistent with previous monitoring results.

Parameter	Units	MW1	MW2	IGV	GTV
pH	pH units	6.93	7.15	6-9	-
Chloride	mg/l	19.0	94.1	30	24-187.5
Ammoniacal Nitrogen	mg/l	0.95	2.26	0.15	0.065-0.175
BOD	mg/l	63	15	-	-
Mineral Oils	mg/l	272.88	< 0.01	10	-
Faecal Coliforms	cfu/100ml	<1	<1	0	-
Total Coliforms	cfu/100ml	87	31	0	-

Table 3.2Groundwater Monitoring Results – April 2014

3.3 Foul Water Monitoring

Foul water is generated by floor runoff in the transfer building and sanitary discharges. In July 2010, following agreement with the Agency, the drainage system was connected to the Sligo County Council municipal sewer, which connects to the municipal waste water treatment plant located approximately 500 m from the facility. Monitoring is carried out at one location (SE-1), the final discharge point from the facility. A technical amendment issued in January 2013 defines the current monitoring schedule for emissions to sewer. Foul water monitoring is carried out quarterly in accordance with Condition 9.2 and Schedule E.7 of the licence. The sampling location is shown on Figure 3.1 and the monitoring results are presented on Table 3.3.

The range of analysis as specified in Schedule E.7 of the amended Waste Licence includes pH, BOD, COD, ammoniacal nitrogen, chloride, detergents, total suspended solids, mineral oils and oils, fats and greases. The sampling and analysis was carried out in accordance with recognised quality assurance and control procedures.

The ELVs set in the licence are based on a direct discharge to the Garavogue River. As the discharge to the river has stopped, the Licence ELVs are no longer applicable. In approving the connection to the municipal sewer, the Sanitary Authority set discharge limits and these are included in Table 3.3. The foul water discharge complied with the ELVs in 2014.

A technical amendment granted in January 2013 significantly altered the existing monitoring regime and introduced a requirement to obtain composite samples of foul water samples for a number of parameters (including pH, BOD, COD, Chloride, detergents, total suspended solids, mineral oil and Oils Fats and Greases). This requirement to obtain composite samples was appealed by Greenstar and with the agreement of Sligo County Council, the Agency advised that it was appropriate to maintain the current sampling technique (grab sampling).

Parameter	Units	SE-1 Q1 2014	SE-1 Q2 2014	SE-1 Q3 2014	SE-1 Q4 2014	Sanitary Authority Emission Limits
pH	pH Units	7.29	7.01	7.26	7.28	6 – 10
BOD	mg/l	*	<2	6	<1	3,000
COD	mg/l	31	14	13	11	6,000
Chloride	mg/l	<1	**	0.2	17.6	-
Ammoniacal Nitrogen	mg/l	0.447	0.652	0.639	0.71	100
Total Suspended Solids	mg/l	266	<2	<2	<10	1,250
Surfactants	mg/l	<0.1	0.027	0.088	0.4	100
Oils, Fats & Greases	mg/l	<1	< 0.001	<1	< 0.01	100
Mineral Oils	mg/l	< 0.01	< 0.01	<0.01	< 0.01	10

Table 3.3	Foul Water Monito	ring Results for 2014
Table 3.3	rour water wronnto	ing Results for 2014

* Results not available due to laboratory instrument failure

** Results nor available due to bottle breakage in transit to laboratory

3.4 Noise Survey

All waste processing is carried out internally which provides significant attenuation for noise emissions from waste processing. The annual noise survey was carried out on the 12th June 2014 in accordance with Schedule E of the Licence. Monitoring was carried out at the four noise monitoring locations, N-1, N-2, N-5 and N-6 shown on Figure 3.1. The results are summarised on Table 3.4. The survey concluded that the facility was fully compliant with its licence requirements as there were no impacts from facility activities at any potentially noise sensitive locations.

The nearest sensitive receptors to the facility are private residences located approximately 200 metres to the east of the facility across the Garavogue River at Cartron. There are also some individual residences located close to the Finiskiln Industrial Estate approximately 200 metres

south of the facility. An inspection undertaken by the acoustic consultant in the vicinity of the nearest sensitive locations prior to the onsite noise survey established that noise emissions from the study site were not audible or discernible at these locations.

Station	Time	LAeq 30	LAF10 30	LAF90 30	Specific	Noise audible
		min dB	min dB	min dB	level* dB	
N1	1045-1115	55	53	45	55	Vehicle movements on yard areas and plant movements in building audible at low level, although sporadic vehicles passing locally more intrusive. During quieter periods, cardboard baler in building slightly audible, reflected off building facade. Offsite, noise emissions variously audible at low level from vehicle movements in yards beyond boundary (incl. idling truck outside boundary during last 5 min), and coal conveyor system at nearby premises. Birdsong audible.
N2	1206-1236	57	59	50	57	Loader operating in building continuously audible at low level, loading ejector trailers. Truck movements around site also audible at low level. Waste disposal noise at CAS site significant, chiefly glass disposal. Sporadic car movements through entrance dominant when present. Intermittent vehicle movements on quay roadway significant. Bird song/calls.
N5	1014- 1044	57	56	49	57	Occasional vehicle movements on yard around weighbridge area dominant when present, including several extended periods when vehicles idling near weighbridge. Forklift truck movements audible in building. During vehicle absence, baler in building continuously clearly audible. Intermittent vehicle movements on road outside boundary audible at low level.
N6	1119- 1149	60	55	48	60	Occasional vehicle movements on nearest yard area clearly audible when present. Waste activities around yard and in building also audible at low level, including loader in continuous use from 1138. Ejector trailer donkey engine at weighbridge area clearly audible through building 1123-1140, and dominant from 1129 when manoeuvred into building (driver left engine running for extended period). Glass disposal at CAS intermittently clearly audible, reflected off external wall. Road traffic outside boundaries intermittently clearly audible. Birdsong.

Table 3.4Noise Monitoring Results July 2014

*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

There are significant off-site sources of dust in the vicinity of the facility which is located in an industrial area of Sligo Port. In dry weather Greenstar dampen down access roads and the paved yards. Dust monitoring was carried out three times during the year in accordance with Schedule E of the Licence at four on-site locations (D1, D2, D3 and D4) as shown on Figure 3.1. The Licence requires that two of these monitoring events be carried out between May and September. Dust monitoring was carried out in May, September and December. The results of the dust monitoring are presented in Table 3.5.

The dust deposition limit ($350 \text{ mg/m}^2/\text{day}$) was exceeded at one of the four monitoring locations (D3 - 417 mg/m²/day) in September 2014. The limits were not exceeded at any location in either May or December 2014.

The sources of the dust at each of the locations is not exclusively the Greenstar facility, which is located in a busy port surrounded by a variety of industrial activities, including an open coal storage facility to the west and south west, a petrol and oil distribution centre to the south, a fish meal storage warehouse to the east and an unvegetated partially restored local authority landfill to the south. The facility is also bounded to the north by the Port road leading to other industrial units further along the quay.

Location D3 is on the western boundary of the facility, close to the open coal storage yard. When collecting the gauges, Greenstar staff noted the presence of black dust and some vegetation indicating the presence of coal dust from the coal yard and some leaves from some adjacent trees. Given the low levels recorded at D1, D2 and D4 it is not considered that the levels recorded at D3 are indicative of emissions from the Greenstar facility. It is considered that the elevated levels are due to offsite sources.

	May 2014 mg/m²/day	September 2014 mg/m²/day	December 2014 mg/m²/day	Deposition Limit mg/m²/day
D1	15.63	294	10.7	350
D2	9.93	207	0.6	350
D3	12.05	417	23.3	350
D4	13.26	165	11.9	350

Table 3.5	Dust Monitoring	Results 2014
	Dust monitoring	Results 2011

3.6 Landfill Gas Monitoring

The annual gas monitoring was carried out in accordance with Schedule E of the Licence and included measurements of methane, carbon dioxide, oxygen and atmospheric pressure from the two groundwater monitoring wells (MW1 & MW2) and the facility office on the 16th April

2014. OCM carried out the gas measurements using a Gas Data LSMx gas analyser. The meter was calibrated before use. The detection limit is 0.1% for methane, carbon dioxide and oxygen. The results are shown on Table 3.6. There are no trigger limits set in the waste licence. Carbon dioxide and methane were not detected at any of the monitoring locations. There is no evidence that landfill gas is present in the soils beneath the facility.

LANDFILL GAS MONITORING FORM				Baselin	e		Ambient	X
Site Nam	e: Greenstar I	.td. – Sligo	o Depot	Site Add	lress: (Greenstar,	Sligo.	
Operator	: GREENSTA	AR		Nationa	l Grid I	Referenc	e:	
Site Statu	is : Operationa	.1		Date : 16	/04/204	1		
Instrume	nt used:	1	Normal Analytic	al Range:				
Gas Data	LMSx	(0 – 100%					
Monitori	Monitoring Personnel: OCM				r: Drizz	le overca	st	
			Results	5				
Sample ID	Borehole/ spike/other	CH4 (% v/v)	$) \qquad \begin{array}{c} \mathbf{CO}_2 \\ (\% \ \mathbf{v/v}) \end{array}$	O2 (% v/v)		ometric 1re (mb)	Comment	
MW1	Borehole	0.0	0.0	21.2	9	986		
MW2	Borehole	0.0	0.0	21.8	9	986		
OFFICE	-	0.0	0.0	20.9	9	986		

Table 3.6Landfill Gas Monitoring Results 2014

4. SITE DEVELOPMENT WORKS

4.1 Engineering Works

The MRF building was constructed in two phases and the southern area of the floor is at a slightly lower level to the northern area. It was intended to raise the floor at the southern area to remove the divide between both sides of the building. A portion this was carried out Q3, to facilitate installation of the MSW baler.

4.2 Summary of Resource & Energy Consumption

Table 4.1 presents an estimate of the resources used on-site during the reporting period and the previous two years. An energy audit was completed in compliance with Condition 9.13 of the Technical Amendment during 2013 and an Energy Management Policy was developed subsequent to this.

Resources	Quantities 2014	Quantities 2013	Quantities 2012
Vehicle Diesel	134,332 Litres	129,152 Litres	140,486 litres
Diesel (green)	18,000 Litres	19,800 Litres	23,766 litres
Electricity	117,681 Units	87,018 Units	123,466 kwh
Hydraulic & Engine Oil	400 litres	600 litres	1,400 litres

Table 4.1Estimates of Resources Used On-Site 2014, 2013 & 2012

5. WASTE RECEIVED AND CONSIGNED 2014

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 18,169 tonnes and the total amount consigned was 17,953.12 tonnes. For comparative purposes the amounts of waste received and consigned from 2003 to 2014 are presented in Tables 5.2 and 5.3. As per Condition 5.8 of the Licence all the wastes consigned from the site went to authorised recovery and disposal facilities and a copy of the relevant Facility Permit or Waste Licences retained on site for Agency inspection.

The records show that less waste was consigned from the site than accepted. The difference was 216 tonnes. The difference relates to wastes held on site at the end of 2014.

EWC	Description	Waste In	Waste Out
02 07 05	Interceptor Sludge	562.22	559.48
030199	Chip/Grit	0.18	
15 01 01	Cardboard Packaging	804.74	1,110.84
15 01 02	Plastic Packaging	291.62	195.3
150103	Wooden Packaging	1.28	
15 01 04	Metallic Packaging	37.95	12.94
15 01 05	Tetrapak	12.86	
15 01 06	Mixed Packaging	2,961.93	2,697.18
15 01 07	Glass Packaging	65.87	98.26
16 03 06	Silver Strips	27.52	27.52
160601	Battery		0.63
17 02 03	Plastic	53.05	
170802	Plasterboard	0.36	
17 09 04	Mixed C&D	78.08	30.62
19 08 02	Waste from Desanding	11.52	
191201	Paper & Cardboard Residue	0.36	
19 12 07	Wood other	20.46	6.54
19 12 09	minerals	101.49	29.06
191210	Solid Recovered Fuel (SRF)	23.12	
19 12 12	Other Wastes	21.60	2,254.88
20 01 01	Paper & Cardboard	340.10	200.04
20 01 02	Glass Municipal	88.46	50.87
20 01 08	Biodegradable Kitchen & Canteen Waste Wastes	261.06	108.04
20 01 11	Textiles	3.80	7.66
200133	Haz Battery		0.71
200135	REC Electronics & Electrics	188.36	174.20
20 01 38	Wood from municipal sources	144.80	37.74
20 01 39	Plastic from municipal sources	38.79	57.71
20 01 39	Metal from municipal sources	53.16	45.68
20 02 01	Biodegradable garden & park waste	9.44	12.50
	Mixed Residual Waste from mechanical	2.77	12.50
20 03 01	treatment	3,373.16	9,628.77
200303	C&I Dry Mixed	341.48	133.68
20 03 07	Bulky Waste	8,249.92	529.98
	Total Accepted	18,169	
	Total Consigned		17.953.2
	Recovery		12,020.29
	Disposal		5,932.83
	Recovery Rate		66.9%

Table 5.1Waste Received & Consigned 2014

EWC	Description	Waste In	Waste Out
02 07 05	Interceptor Sludge	552	573
15 01 01	Cardboard Packaging	854	1,317
15 01 02	Plastic Packaging	381	167
15 01 04	Metallic Packaging	60	5
15 01 05	Tetrapak	15	-
15 01 06	Mixed Packaging	2,293	-
15 01 07	Glass Packaging	88	1,711
15 02 03	Absorbenst	1	
16 03 06	Silver Strips	205	189
17 02 01	Wood	12	-
17 02 03	Plastic	6	-
17 05 04	Soil & Stone from C&D Waste	48	-
17 09 04	Mixed C&D	169	58
19 08 02	Waste from Desanding	7	-
19 08 12	Sludge from biological treatment of waste water	-	14
19 09 02	Sludge from water clarification	43	15
19 12 07	Wood other	-	27
19 12 09	minerals	_	170
19 12 12	Other Wastes	-	10,321
20 01 01	Paper & Cardboard	370	278
20 01 02	Glass Municipal	63	39
20 01 08	Biodegradable Kitchen & Canteen Waste Wastes	227	75
20 01 11	Textiles	12	8
20 01 36	Discarded electronic equipment	36	168
20 01 38	Wood from municipal sources	199	-
20 01 39	Plastic from municipal sources	35	-
20 01 40	Metal from municipal sources	53	47
20 02 01	Biodegradable garden & park waste	45	-
	Mixed Residual Waste from mechanical		
20 03 01	treatment	1,980	324
20 03 07	Bulky Waste	8,274	1,050
	Total Accepted	16,032	
	Total Consigned	,	16,556
	Recovery		7,140
	Disposal		9,416
	Recovery Rate		c43%

Table 5.2 Waste Received & Consigned 201

Year	Tonnes per Annum	Tonnes Recovered	Tonnes Landfilled
2003/2004	14,484	2,199	12,285
2004	18,548	6,351	12,197
2005	21,500	6,750	12,694
2006	23,196	8,393	15,634
2007	32,271	9,224	24,672
2008	36,993	7,082	32,148
2009	24,267	8,760	16,864
2010	17,359	7,215	11,277
2011	24,982	8,961	16,021
2012	19,201	7,423	11,778
2013	16,556	7,140	9,416
2014	18,169	12,020	5,932

Table 5.3Total Tonnages Received and Consigned in 2003-2014

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There was one minor environmental incident during the reporting period which related to an exceedance of the dust deposition limit. There were no other incidents at the facility as defined by the Licence.

The dust deposition limit $(350 \text{ mg/m}^2/\text{day})$ was exceeded at one of the four monitoring locations (D3 - 417 mg/m²/day) in September 2014. The limits were not exceeded at any location in either May or December 2014. It is considered that the dust source was off site rather than an emission associated with site activities. The exceedance was reported to the Agency in accordance with Condition 3.3 of the Licence.

6.2 Register of Complaints

Greenstar maintains a register of complaints received in accordance with Condition 3.12 of the Licence. No complaints were received during the reporting period.

7. ENVIRONMENTAL DEVELOPMENT

7.1 Environmental Management Programme Report

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

The IMS has been developed for the achievement of continual improvement taking into the requirements of the Waste Licence Conditions. Greenstar has prepared and effectively implement documented procedures and instructions in accordance with the requirements of both the OHSAS 18001:2007 and ISO 14001:2004. A successful IMS external surveillance audit was conducted in July 2014.

As part of this IMS, Greenstar has developed a list of environmental, management, operating and maintenance procedures, details of which are outlined in Appendix 2. The schedule of Objectives and Targets, including their status for 2014 (Table 7.1), as well as the proposed Objectives and Targets for 2015 (Table 7.2) are presented below.

7.1.1 Site Management Structure

Name: Barry Gallagher

Responsibility: Operations Manager; overall management of the site, responsible for management of all fleet activities

Experience: 23 years experience. N.C.B.S

Name: Anthony Lynch

Responsibility: Yard Foreman, management of baler, pickers, forklift driver and yard cleaner

Experience: 12 years

7.1.2 Staff Training

Environmental Awareness training was carried out for all staff in 2014. Barry Gallagher and Claire McMahon received waste management training in 2014.

7.2 Environmental Management Programme Proposal

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

The schedule of targets and objectives for 2015 are presented in Table 7.2.

Table					
No.	Objective	Target	Timescale	Responsibility	
1	Integrity Testing of all above ground bunds in Compliance with Condition 4.12.4 of Licence	In compliance with Condition 4.12.4, testing is to be carried out and report submitted to the Agency	Q3-Q4	Bunds were tested in July 2014 and passed fit for purpose.	
2	Infrastructural Development – Hardstanding and drainage	Investigate the costs and develop SEW proposals to concrete the empty wheelie bin storage area and also to raise the floor at the southern section of the MRF building to come into line with the newer floor at the northern portion of the building.	Q3-Q4	Ongoing	
3	Reduce energy consumption and provide energy awareness training to employees	Tenders will be sought to review the current lighting system and introduce a lighting system with lower energy demands.	Q2 2014	Ongoing	
4	Odour Impacts	Compile an Odour Management Plan for the facility and include it on the training matrix	Q2 - Q3	Ongoing	
5	Development and adoption of Fire Prevention Procedure at the facility	Reduce risk of fire and enable early detection	Q2 2014	Ongoing	
6	Review of Emergency Response Plan to incorporate fire prevention procedure and new structure	Revision of Plan and additional training for site personnel	Q2 2014	Ongoing	
7	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	Re-certified in July 2014, site surveillance audit planned.	
8	Develop and maintain traffic management plan at the facility	Review of all on-site traffic management	Q2/Q3 2014	Ongoing	

Table 7.1Schedule of Objective and Targets 2014

9	Environmental Training of Facility Staff	Update training presentation and ensure training of key managerial staff	Q2/Q3 2014	Ongoing
10	Site Signage	Facility Notice Boards to be replaced to reflect new ownership	Q1 2014	Completed in March 2014

Table 7.2Schedule of Objective and Targets 2015

No.	Objective	Target	Timescale	Responsibility
1		Investigate the costs and develop SEW proposals to concrete the empty wheelie bin storage area and also to raise the floor at the southern section of the MRF building to come into line with the newer floor at the northern portion of the building. Complete integrity testing of all pipelines on site.		Site Management/EHS
2	Reduce energy consumption, provide energy awareness training to employees and track energy usage on site.	Tenders will be sought to review the current lighting system and introduce a lighting system with lower energy demands.	Q2 2015	Site Management/EHS
3	Odour Impacts	Compile an Odour Management Plan for the facility and include it on the training matrix	Q2 – Q3 2015	Site Management/EHS
4	Development and adoption of Fire Prevention Procedure at the facility and review of Emergency Response Plan	Additional training for site staff required	Q2 2015	Site Management/EHS

5	Install new Fire Detection (Aspiration) System	Reduce risk of fire and enable early detection	Q2 2015	Site Management/EHS
6	Develop and maintain traffic management plan at the facility	Review of all on-site traffic management	Q2/Q3 2015	Site Management/EHS
7	Environmental Training of Facility Staff	Update training presentation and ensure training of key managerial staff	Q2/Q3 2015	Site Management/EHS
8	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	Q2-Q3	Site Management/EHS
9	Document PM plan for all hardstand and drainage infrastructure on site	Incorporate into existing Site Inspection Database (EF-10A)	Q2-Q3	Site Management/EHS
10	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	Q2-Q3	EHS/Finance/WIMS

7.3 Communications Programme

Greenstar are committed to setting the standard in waste management and ensuring environmental compliance in all operations. To this end Greenstar has drawn up a Communications Programme, which details how members of the public are facilitated in accessing environmental information at the facility.

Records available for public inspection on-site include:-

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

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

Visits to the site should be arranged in advance by ringing the Facility Manager or Supervisor at 071 - 9143037.

7.4 ELRA & Report on 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.

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.

APPENDIX 1

European Pollutant Release and Transfer Register



| PRTR# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2014.xls | Return Year : 2014 |

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.18

I. FACILITY IDENTIFICATION			
Parent Company Name	Starrus Eco Holdings Limited		
Facility Name	Starrus Eco Holdings Limited (Sligo)		
PRTR Identification Number	W0058		
Licence Number	W0058-01		

Classes of Activity

REFERENCE YEAR 2014

No. class_name - Refer to PRTR class activities below

	Deepwater Quay
Address 2	Sligo
Address 3	
Address 4	
	Sligo
Country	
Coordinates of Location	-8.48919 54.28
River Basin District	IEWE
NACE Code	3821
	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Malcolm Dowling
AER Returns Contact Email Address	
AER Returns Contact Position	
AER Returns Contact Telephone Number	012947976
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	8
User Feedback/Comments	Waste water discharge improved between 20013 and 2014 reflected I reduction in thelevels of COD, BOD,
	FOG, TSS and Mineral Oil.
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 20	02)
Is it applicable?	
Have you been granted an exemption ?	
If applicable which activity class applies (as per	
Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being	
used ?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE

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# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2014.xls | Return Year : 2014 |

25/03/2015 16:06

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

	RELEASES TO AIR	Please enter all quantities in this section in KGs							
PC	DLLUTANT		MI	ETHOD			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 B : REMAINING PRTR POLLUTANTS

	RELEASES TO AIR	Please enter all quantities in this section in KGs					
PC	LLUTANT	M	HOD 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 C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

	RELEASES TO AIR	Please enter all quantities in this section in KGs					
PO		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

Additional Data Requested from Landfill operators										
for the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide ummary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total nethane generated. Operators should only report their Net methane (CH4) emission to the environment under (total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:										
Landfill:	Starrus Eco Holdings Limited (Sligo)				-					
Please enter summary data on the										
quantities of methane flared and / or utilised			Meth	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)					N/A					
Methane flared						(Total Flaring Capacity)				
Methane utilised in engine/s					0.0	(Total Utilising Capacity)				
Net methane emission (as reported in Section										
A above)	0.0				N/A					

4.2 RELEASES TO WATERS

Link to previous years emissions data

| PRTR# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2014.xls | Return Year : 2014 |

25/03/2015 16:06

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this onl RELEASES TO WATERS enter all quantities in this se ction in KG 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 0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

	RELEASES TO WATERS		Please enter all quantities in this section in KGs						
POLLUTANT					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 in this section in KGs							
PC	DLLUTANT				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		

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

| PRTR# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2014.xls | 25/03/2015 16:06

SECTION A : PRTR POLLUTANTS

	MENT OR	SEWER		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/Year	F (Fugitive) KG/Year	
06	Ammonia (NH3)	М	ALT	Floor Washdown		0.01836	0.01836	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		N	IETHOD	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			
238	Ammonia (as N)	M	ALT	Floor Washdown	0.01836	0.01836	0.0	0.0			
303	BOD	M	ALT	Floor Washdown	0.18	0.18	0.0	0.0			
306	COD	M	ALT	Floor Washdown	0.5175	0.5175	0.0	0.0			
308	Detergents (as MBAS)	M	ALT	Floor Washdown	0.00515	0.00515	0.0	0.0			
314	Fats, Oils and Greases	M	ALT	Floor Washdown	0.0789	0.0789	0.0	0.0			
324	Mineral oils	M	ALT	Floor Washdown	0.0003	0.0003	0.0	0.0			
240	Suspended Solids	М	ALT	Floor Washdown	7.98	7.98	0.0	0.0			

4.4 RELEASES TO LAND

Link to previous years emissions data

25/03/2015 16:06

SECTION A : PRTR POLLUTANTS

		Please enter all quantities in this section in KGs						
POLLUTANT		METHOD				QUA	ANTITY	
			Met	hod Used				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (A	ccidental) 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)

	i i i i i i i i i i i i i i i i i i i	RELEASES TO LAND				Please enter all quar	ntities in this section in K	Gs	
	POLLUTANT			N	IETHOD			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

-				Please enter	all quantities on this sheet in Tonnes								40
				Quantity (Tonnes per Year)		Waste		Method Used		<u>Haz Waste</u> : Name and Licence/Permit No of Next Destination Facility <u>Haz Waste</u> : Name and Licence/Permit No of Recover/Disposer	<u>Haz Waste</u> : Address of Next Destination Facility <u>Non Haz Waste</u> : Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
	Transfer Destination	European Waste Code	Hazardous		Description of Waste	Treatment	M/C/E	Method Used	Location of Treatment				
											Donegal Road Pettigo		
`	Vithin the Country	02 07 05	No	559.48	sludges from on-site effluent treatment	R13	М	Weighed	Offsite in Ireland	Envirogrind Ltd,env/143/wp4	,Pettigo,Donegal .,., Ireland Millennium Business Park		
١	Vithin the Country	15 01 01	No	13.04	paper and cardboard packaging	R13	м	Weighed	Offsite in Ireland	Greenstar Limited ,W0183- 01	,.,Ballycoolin, Dublin 11, Ireland Rosemount Business		
١	Vithin the Country	15 01 01	No	80.18	paper and cardboard packaging	R13	м	Weighed	Offsite in Ireland	Bailey Waste,WFP-FG-08- 002-01	park,.,ballycoolin dublin 11,.,Ireland		
٢	o Other Countries	15 01 01	No	186.24	paper and cardboard packaging	R13	М	Weighed	Abroad	Cellmark USA, IRE/G180/11 MLM Ltd (ACM Europe UK)TFS Broker	200 Tamal Plaza,., California ,. 95245 ,United States		
٦	o Other Countries	15 01 01	No	463.1	paper and cardboard packaging	R13	М	Weighed	Abroad	IRE/G021/11 Mark Lydon Enterprises	.,.,.,UNITED KINGDOM		
٦	o Other Countries	15 01 01	No	163.4	paper and cardboard packaging	R13	М	Weighed	Abroad	Ltd,IRE/G021/12	.,.,.,United Kingdom Baanhoekweg 4, 3313 LA Dordrecht		
-	o Other Countries	15 01 01	No	204 88	paper and cardboard packaging	R13	м	Weighed	Abroad	Peute Recycling, TFS Broker IRE/G006/11	,Netherlands,Netherlands,Ne therlands		
		15 01 02					м			Leinster Environmental,WP 2008/06	Haggartstown,,Dundalk,Co Louth.Ireland		
ì	Vithin the Country	15 01 02	No	192.33	plastic packaging	R13	IVI	Weighed	Offsite in relatio		Hanleys Units ,Claregalway		
١	Vithin the Country	15 01 02	No	2.97	plastic packaging	R13	М	Weighed	Offsite in Ireland	Connaught Waste Recycling Ltd.,WFP-G-10-0005-01 Erin Recyclers,WCP-MO-09-	,Co. Galway,Co. Galway,ireland		
١	Vithin the Country	15 01 04	No	12.94	metallic packaging	R4	м	Weighed	Offsite in Ireland		,Co. Sligo,Co. Sligo,ireland Carrowbrowne.Headford		
١	Vithin the Country	15 01 06	No	2353.22	mixed packaging	R13	М	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Rd,Co Galway,., . Ireland		
١	Vithin the Country	15 01 06	No	343.96	mixed packaging	R13	М	Weighed	Offsite in Ireland	Greenstar Bray Depot,W0053-03	Fassaroe,Bray,Wicklow,Wick low,Ireland Lawlesstown ,Clonmel ,Co. Tipperary ,Co. Tipperary		
١	Vithin the Country	15 01 07	No	78.96	glass packaging	R13	М	Weighed	Offsite in Ireland	Clonmel Waste ,WP-008-02			

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE | PRTR#: W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2014.xks | Return Year : 2014 | Please enter all quantities on this sheet in Tonnes

25/03/2015 16:06

Within the Country	15 01 07	No	19.3 glass packaging	R13	м	Weighed	Offsite in Ireland		Ballymount Avenue ,Clondalkin,Dublin 22,,,Ireland Oldbury Road,Westbromich,Westmidl	
To Other Countries	16 03 06	No	organic wastes other than those mentioned 27.52 in 16 03 05	R4	М	Weighed	Abroad	JBR Recovery Ltd,EPR/BJ9878IQ	ands,B70 9BS,UNITED KINGDOM	
Within the Country	16 06 01	Yes	0.63 lead batteries mixed construction and demolition wastes	R4	м	Weighed	Offsite in Ireland	KMK Metals,W0113-03		KMK Metals,W0113- 03,tullamore,-,-,offaly,ireland tullamore,-,-,offaly,ireland
Within the Country	17 09 04	No	other than those mentioned in 17 09 01, 17 30.62 09 02 and 17 09 03	R13	м	Weighed	Offsite in Ireland		Cloverhill ,,Co Sligo,Ireland Arigna ,., Carrick-On-	
Within the Country		No	6.54 wood other than that mentioned in 19 12 06		м	Weighed	Offsite in Ireland	Norris Plant Hire ,WP SO-05-		
Within the Country	19 12 09	No	29.06 minerals (for example sand, stones) other wastes (including mixtures of materials) from mechanical treatment of	R13	м	Weighed	Offsite in Ireland	52	Cloverhill ,.,.,Co Sligo,Ireland	
Within the Country	19 12 12	No 1	wastes other than those mentioned in 19 12 1273.3 11 other wastes (including mixtures of materials) from mechanical treatment of	D5	М	Weighed	Offsite in Ireland	Bord Na Mona,W0201-03	Drehid Landfill,Co Kildare,.,,Ireland	
Within the Country	19 12 12	No	wastes other than those mentioned in 19 12 19.64 11 other wastes (including mixtures of materials) from mechanical treatment of	R1	М	Weighed	Offsite in Ireland	Indaver,W0167-02	Carranstown,Duleek,Meath,., Ireland	
Within the Country	19 12 12	No 3	wastes other than those mentioned in 19 12 344.26 11 other wastes (including mixtures of materials) from mechanical treatment of	R13	М	Weighed	Offsite in Ireland	Greenstar Bray Depot,W0053-03	Fassaroe,Bray,Wicklow,Wick low,Ireland Millennium Business Park	
Within the Country	19 12 12	No 6	wastes other than those mentioned in 19 12 517.68 11	R13	м	Weighed	Offsite in Ireland	Greenstar Limited ,W0183- 01 Connaught Waste Recycling	,,Ballycoolin, Dublin 11, Ireland Hanleys Units, Claregalway ,Co. Galway,Co.	
Within the Country	20 01 01	No	2.04 paper and cardboard	R13	м	Weighed	Offsite in Ireland	Ltd.,WFP-G-10-0005-01 Greenstar Brav	Galway,ireland Fassaroe,Bray,Wicklow,Wick	
Within the Country	20 01 01	No	173.9 paper and cardboard	R13	М	Weighed	Offsite in Ireland	Depot,W0053-03	low,Ireland	
Within the Country		No	24.1 paper and cardboard					MRF Rosemount	Ireland	
									Lawlesstown ,Clonmel ,Co. Tipperary ,Co. Tipperary	
Within the Country	20 01 02	No	11.18 glass	R13	М	Weighed	Offsite in Ireland	Clonmel Waste ,WP-008-02 Rehab Recycling Ltd. ,WPR	,Ireland Ballymount Avenue .Clondalkin.Dublin	
Within the Country	20 01 02	No	39.69 glass	R13	М	Weighed	Offsite in Ireland		22,.,Ireland	
,						-				

										0 1 11 11 1		
10	ithin the Country	20 01 08	No	108.04 biodegradable kitchen and canteen waste	Do	м	Weighed	Offsite in Ireland	Barna Waste .W0106-02	Carrowbrowne,Headford Rd,Co Galway,., . Ireland		
V	nthin the Country	20 01 06	INO	106.04 biodegradable kitchen and canteen waste	R3	IVI	weighed	Offsite in relatio	Textile Recycling	Greenogue, Dublin		
v	ithin the Country	20 01 11	No	7.66 textiles	R13	м	Weighed	Offsite in Ireland		24,,Ireland		
	initial the obtainity	200111	110	batteries and accumulators included in 16	ino		Weighed	Choice in Ireland		24,		
				06 01, 16 06 02 or 16 06 03 and unsorted								
				batteries and accumulators containing these						Tullamore,.,.,Co	KMK Metals,W0113-	
V	ithin the Country	20 01 33	Yes	0.71 batteries	R4	М	Weighed	Offsite in Ireland	KMK Metals,W0113-03	Offaly, Ireland	03,tullamore,-,-,offaly,ireland	tullamore,-,-,offaly,ireland
				discarded electrical and electronic								
				equipment other than those mentioned in 20								
				01 21 and and 20 01 23 containing	-					Tullamore,.,.,Co	KMK Metals,W0113-	
N	lithin the Country	20 01 35	Yes	173.32 hazardous components	R4	М	Weighed	Offsite in Ireland	KMK Metals,W0113-03	Offaly, Ireland	03,tullamore,-,-,offaly,ireland	tullamore,-,-,offaly,ireland
				discarded electrical and electronic equipment other than those mentioned in 20					RILTA,W0192-03,Block 402 Greenogue Business	Block 402 Greenogue	RILTA,W0192-03,Block 402 Greenogue Business	Black 402 Creanague
				01 21 and and 20 01 23 containing						Business Park.Rathcoole.Co.		Block 402 Greenogue Business Park.Rathcoole.Co.
M	ithin the Country	20.01.35	Yes	0.88 hazardous components	R4	м	Weighed	Offsite in Ireland	ireland	Dublinireland		Dublin,-,ireland
	initial the obtainity	200100	105		114		Weighed	Choice in Ireland	, i olario	Arigna Carrick-On-	, i ola la	Dabini, inclana
									Arigna Fuels Ltd. ,WMP	Shannon ,Co. Roscommon ,.		
V	ithin the Country	20 01 38	No	37.74 wood other than that mentioned in 20 01 37	R1	М	Weighed	Offsite in Ireland	14/06	Ireland		
									Galway Metal, WFP-G-11-	Oranmore, Galway ,-,-		
		20 01 40	No	20.34 metals	R4	М	Weighed	Offsite in Ireland		,ireland		
N	ithin the Country	20 01 40	No	24.88 metals	R4	М	Weighed	Offsite in Ireland	Clearcircle Metals Ltd,.	.,.,Limerick,.,ireland		
		00.04.40	NI-	0.40 metals	R4		Martinia al	Official inclusion		Deepwater Quay, Finisklin		
V	ithin the Country	20 01 40	No	0.46 metals	H4	М	Weighed	Offsite in Ireland	0634-01	,Co. Sligo,Co. Sligo,ireland Carrowbrowne.Headford		
10	ithin the Country	20 02 01	No	12.5 biodegradable waste	R3	м	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Rd,Co Galway, Ireland		
•	intrini the obtinity	20 02 01	NO		110	IVI	Weighed	Offsite in freiding		Drehid Landfill.Co		
V	ithin the Country	20 03 01	No	1138.38 mixed municipal waste	D5	М	Weighed	Offsite in Ireland	Bord Na Mona.W0201-03	Kildare,,Ireland		
	,									Killala Road, Ballina,-,-		
V	ithin the Country	20 03 01	No	3347.41 mixed municipal waste	D5	М	Weighed	Offsite in Ireland	Rathroeen Landfill,W0067-02			
										Carranstown, Duleek, Meath,.,		
N	ithin the Country	20 03 01	No	5106.06 mixed municipal waste	R1	М	Weighed	Offsite in Ireland	Indaver,W0167-02	Ireland		
										Millennium Business Park		
10	lithin the Country	20 03 01	No	26.00 mixed municipal weate	R13	м	Weighed	Offsite in Ireland	Greenstar Limited ,W0183-	,.,Ballycoolin, Dublin 11, Ireland		
V	ithin the Country	20 03 01	INO	36.92 mixed municipal waste	піз	IVI	weighed	Offsite in relatio	01	Killala Road, Ballina,-,-		
v	ithin the Country	20 03 03	No	133.68 street-cleaning residues	D5	м	Weighed	Offsite in Ireland	Rathroeen Landfill.W0067-02			
	and country								5001 Landin, 1. 5007 0L	Drehid Landfill.Co		
V	ithin the Country	20 03 07	No	40.06 bulky waste	D5	М	Weighed	Offsite in Ireland	Bord Na Mona,W0201-03	Kildare,,Ireland		
									Greenstar Bray	Fassaroe, Bray, Wicklow, Wick		
V	ithin the Country	20 03 07	No	331.54 bulky waste	R13	М	Weighed	Offsite in Ireland	Depot,W0053-03	low, Ireland		
										Millennium Business Park		
				150 00 hullinumente	Dia				Greenstar Limited ,W0183-	,.,Ballycoolin, Dublin 11,		
V	lithin the Country	20 03 07	No	158.38 bulky waste	R13	М	Weighed	Offsite in Ireland	UI	Ireland		

APPENDIX 2

Procedures List



greenstar setting the standard		Procedure Listing
Doc. No.: Control	Revision No.: As Shown	Issue Date: As Shown
Approved By:	Malcolm Dowling – Group Environmental Manager	Page 1 of 2
	Oliver Callan – Group H&S Manager	

Integrate	Integrated Procedures - IP					
IP-01	Document & Record Control Procedure	Rev 01, 28/04/14				
IP-02	Health & Safety Risk Assessment Procedure	Rev 01, 28/04/14				
IP-03	Environmental Aspects & Impacts Procedure	Rev 01, 28/04/14				
IP-04	Legal & Regulatory Requirements Procedure	Rev 01, 28/04/14				
IP-05	Objectives, Targets & Management Programmes Procedure	Rev 01, 28/04/14				
IP-06	Competence, Training & Awareness Procedure	Rev 01, 28/04/14				
IP-07	Communication & Consultation Procedure	Rev 01, 28/04/14				
IP-08	Monitoring, Measurement & Improvement Procedure	Rev 01, 28/04/14				
IP-09	Evaluation of Compliance Procedure	Rev 01, 28/04/14				
IP-10	Non Conformances, Corrective/Preventive Actions Procedure	Rev 01, 28/04/14				
IP-11	Internal Audit Procedure	Rev 01, 28/04/14				
IP-12	Management Review Procedure	Rev 01, 28/04/14				
IP-13	Control of Contractors/Visitors Procedure	Rev 01, 28/04/14				
IP-14	Health & Safety & Environmental Monitoring	Rev 01, 28/04/14				
IP-15	Emergency Preparedness & Response Procedure	Rev 01, 28/04/14				
IP-16	Fire Prevention Procedure	Rev 01, 28/04/14				
IP-17	Bin Washing Procedure	Rev 01, 28/04/14				

Safety Pro	Safety Procedures - SP					
SP-01	Permit to Work Procedure	Rev 01, 28/04/14				
SP-02	Maintenance & Calibration Procedure	Rev 01, 28/04/14				
SP-03	Mobile Plant Procedure	Rev 01, 28/04/14				
SP-04	Fork Truck Procedure	Rev 01, 28/04/14				
SP-05	Operation of Fixed Plant Procedure	Rev 01, 28/04/14				
SP-06	Lock Out / Tag Out Procedure	Rev 01, 28/04/14				
SP-07	Health & Safety Notification Procedure	Rev 01, 28/04/14				
SP-08	MSW Shredder routine Maintenance & Clearing of Blockages Procedure (SCGT)	Rev 01, 28/04/14				
SP-09	Weighbridge & Tipping Procedure (SCGT)	Rev 01, 28/04/14				
SP-10	Cleaning of Washing Bay (Greenogue)	Rev 01, 28/04/14				



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Doc. No.: Control	Revision No.: As Shown	Issue Date: As Shown
Approved By:	Malcolm Dowling – Group Environmental Manager	Page 2 of 2
	Oliver Callan – Group H&S Manager	

Environmo	ental Procedures - EP	
EP-01	Office Waste & Energy Management Procedure	Rev 01, 28/04/14
EP-02	Decommissioning and Aftercare Procedure	Rev 01, 28/04/14
EP-03	Environment Communications Procedure	Rev 01, 28/04/14
EP-04	Waste Permits & Licences Procedure	Rev 01, 28/04/14
EP-05	Waste Acceptance Procedure	Rev 01, 28/04/14
EP-06	Unacceptable Waste Procedure	Rev 01, 28/04/14
EP-07	Waste & Material Storage Procedure	Rev 01, 28/04/14
EP-08	Waste Processing Procedure	Rev 01, 28/04/14
EP-09	Site Infrastructure Procedure	Rev 01, 28/04/14
EP-10	Nuisance Management Procedure (Site Specific)	(Site Specific)
		Rev 01, 28/04/14
EP-11	Civic Amenity Site Procedure	Rev 01, 28/04/14