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ANNUAL ENVIRONMENTAL REPORT STARRUS ECO HOLDINGS LTD DEEP WATER QUAY SLIGO LICENCE NO. W0058-01 JANUARY 2016 – DECEMBER 2016

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Project	Annual En	Annual Environmental Report 2016							
Client	SEHL W0058-01	~							
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1. INTRODUCTION

This is the 2016 Annual Environmental Report (AER) for the Starrus Eco Holdings Ltd (SEHL), Materials Recovery & Transfer facility (MRF) at Deep Water Quay, Sligo. It covers the period from the 1st January 2016 to the 31st December 2016.

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 Account is also taken of the AER Draft Guidance Document and AER Information Templates issued by the Agency in January 2012².

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¹ EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency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 installation 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 m² 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 m² 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 installation 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 installation 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

Source segregated household dry recyclables are baled and stored prior to transfer to permitted/licensed off-site recycling facilities. In 2016 residual or black bin household waste was baled and exported for recovery. This activity has now ceased and instead the material is bulked for onward transport to 3rd party sites.

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 installation by both permitted third party hauliers and by SEHL 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.

2.2.2 Plant List

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

Table 2.1 Plant List – 2016

No.	Plant	Model	Operational Capacity	Standby Capacity
1	Baler	Boa	7t/hr	7/t/wk
1	Paper Shredder	Alleghney	500kg/hr	500kg/hr
7	Trucks	Skip Trucks *3	60hr/wk	-
'	Trucks	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	-
1	Grab	Fuchs MHL340	25t/hr	-
1	Weighbridge	Avery Weightronic	46hr/wk	-

3. EMISSION MONITORING

SEHL 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 2016 is presented in this Section.

3.1 Surface Water Monitoring

Condition 9.2 and Schedule E of the Licence requires quarterly monitoring at one surface water emission point (SE-2) to the Garvogue River. The range of analysis 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 discharge complied with the ELVs in 2016

Following an assessment of the surface water system it was found that SE-2 only served the north-western yard. A second discharge point to the Garvogue was identified which serves the south eastern yard and this emission point, labelled SE-3, was added to the monitoring schedule in Q2 and Q3 2015. Drainage works carried out at the site between 02/10/15 and 20/11/15 included the diversion of storm water run-off from the south eastern yard to the foul sewer. As a result monitoring at point SE-3 is no longer required.

Table 3.1 Surface Water Results for 2016

Parameter	Units	Q1	Q2	Q3	Q4	Emission Limit (Grab Sample)*
pН	pH units	6.72	6.97	6.93	7.40	6 – 9
Chloride	mg/l	20.0	17.6	18.5	18.	N/A
Ammoniacal Nitrogen	mg/l	0.75	0.19	0.18	0.13	N/A
COD	mg/l	21	<7	15	18	N/A
BOD	mg/l	<2	<1	2.73	6.57	24
Total Suspended Solids	mg/l	30	4	24	36	36
Surfactants	mg/l	0.8	0.8	1.1	1.6	N/A
Mineral Oils	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	N/A
Oils, Fats & Greases	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	12
Total Coliforms	cfu/100ml	ı	-	>2420	-	N/A
Faecal Coliforms	cfu/100ml	-	-	>2420	-	N/A

N/A - not applicable

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

3.2 Groundwater Monitoring

There are no direct or indirect emissions to ground from the installation. Groundwater monitoring is carried out annually at the two locations (MW1 and MW2) shown on Figure 3.1. MW1 is on the southern boundary of the site in an open paved yard 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 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 monitoring was carried out in December 2016. The parameters were ammoniacal nitrogen, BOD, chloride, mineral oils, pH and 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 results are shown on Table 3.2.

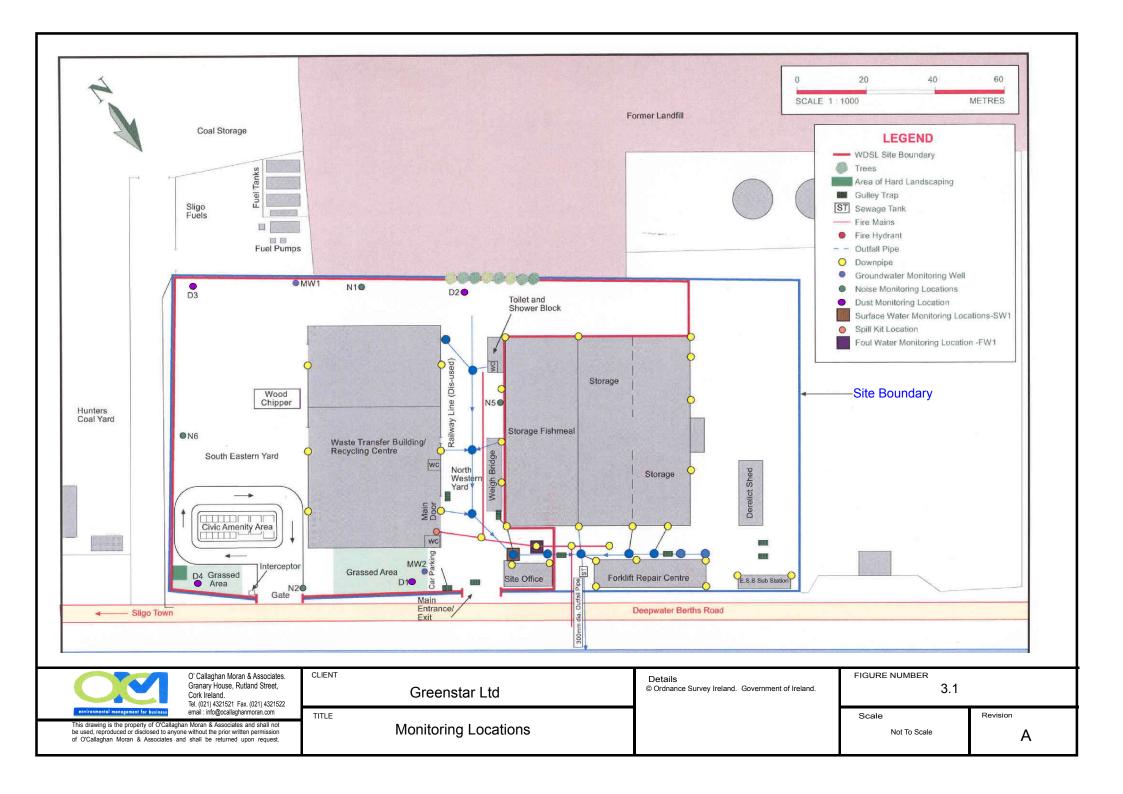
Table 3.2 Groundwater Monitoring Results – December 2016

Parameter	Units	MW-1	MW-2	IGV	GTV
рН	pH units	7.68	7.78	6-9	-
Chloride	mg/l	288.5	44.5	30	24-187.5
Ammoniacal Nitrogen	mg/l	4.49	10.23	0.15	0.065-0.175
BOD	mg/l	22.5	4.66	-	-
Mineral Oils	mg/l	34.12	< 0.01	0.01	-
Faecal Coliforms	Cfu/100ml	<1	547	0	-
Total Coliforms	Cfu/100ml	2	>2420	0	-

Elevated levels of chloride, ammoniacal nitrogen and mineral oil were detected in the upgradient well (MW-1). Total coliforms were detected at low levels, while faecal coliforms were not detected. Elevated levels of chloride, ammoniacal nitrogen, and total and faecal coliforms were detected in the downgradient well (MW-2).

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 December sampling was carried out at high tide and after a period of high rainfall. The mineral oil level in MW-1 was at the lower end of the range detected in previous monitoring events



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; however, the presence of elevated levels of total and faecal coliforms in MW-2 indicates that the groundwater in the vicinity of this monitoring well may be impacted by sanitary wastewater. There are two possible sources:

- Site sanitary wastewater
- Irish Water foul sewer

Site sanitary wastewater is collected in a foul sewer located west of MW-2. The sewer flows north towards the SE-1 monitoring manhole and connects to the Irish Water sewer to the north east of MW-2. The mains sewer runs adjacent to the north eastern site boundary along the Deepwater Berths Road. A CCTV survey of the site sanitary wastewater system was carried out in January 2017. The system was found to be intact and fit for purpose.

3.3 Foul Water Monitoring

In July 2010, following agreement with the Agency, the drainage system was connected to the Sligo County Council municipal sewer serving the municipal waste water treatment plant located approximately 500 m from the installation.

Prior to Q4 2015 foul water was generated by floor runoff in the transfer building and sanitary discharges only. As mentioned in Section 3.1 above, drainage works carried out between 02/10/15 and 20/11/15 included the diversion of storm water run-off from the South Eastern Yard from the Garvogue River estuary to the foul sewer.

Monitoring is carried out at one location (SE-1), the final discharge point from the installation. 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 3.5.

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 are based on a direct discharge to the Garavogue River. As the discharge to the river has stopped, the 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 3.5. The foul water discharge complied with the Sanitary Authority ELVs..

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. This requirement to obtain composite samples was appealed by SEHL and with the agreement of Sligo County Council, the Agency advised that it was appropriate to maintain the current sampling technique (grab sampling).

Table 3.5 Foul Water Monitoring Results for 2016

Parameter	Units	Q1	Q2	Q3	Q4	Sanitary Authority Emission Limits
pН	pH Units	6.46	7.15	6.51	7.40	6 – 10
BOD	mg/l	8.6	50.9	32.2	10.7	3,000
COD	mg/l	7	16	34	16	6,000
Chloride	mg/l	20.6	19.3	18.2	18.1	-
Ammoniacal Nitrogen	mg/l	0.92	0.75	0.39	2.73	100
Total Suspended Solids	mg/l	3.0	16	26	44	1,250
Surfactants	mg/l	0.9	0.9	1.5	2.6	100
Oils, Fats & Greases	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	100
Mineral Oils	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	10

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 25th November 2016 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 3.6. The survey concluded that the installation was fully compliant with its licence requirements as there were no impacts from installation activities at any potentially noise sensitive locations.

The nearest sensitive receptors to the installation are private residences located approximately 200 metres to the east of the installation 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 installation. 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.

 Table 3.6
 Noise Monitoring Results November 2016

Station	Date	Time	Wind	L _{Aeq 30}	L _{AF10 30}	L _{AF90 30}	Specific
			vector	min	min	min	L _{Aeq 30 min}
				dB	dB	dB	dB
	25.11.16	0857-0927	0	61	64	50	61
N1	Facility: Yard sweeper truck continuously audible around site, dominant when operating locally. No other emissions audible apart from several local vehicle movements. Extraneous: Distant traffic audible during onsite plant lulls, in addition to conveyor system at nearby coal facility. Specific Laeq T determination: LAeq representative.						
	25.11.16	1012-1042	0	57	60	52	<57
N2	activities also main entrance Extraneous: continuously Specific Lace	casional car movement audible. Plant operate. Water dripping content traffic audible in background the determination: Thus <laeq.< th=""><th>ating in buildin ontinuously fro on adjacent ind. Distant do</th><th>g quite audible m roof (meltin ndustrial estate g barking. Bird</th><th>e when present, g frost) continue e roadways cle d calls.</th><th>in addition to uously clearly early audible.</th><th>trucks through audible. Distant traffic</th></laeq.<>	ating in buildin ontinuously fro on adjacent ind. Distant do	g quite audible m roof (meltin ndustrial estate g barking. Bird	e when present, g frost) continue e roadways cle d calls.	in addition to uously clearly early audible.	trucks through audible. Distant traffic
	25.11.16	0817-0847	0	65	66	53	62
N5	Facility: Waste management operations in main building clearly audible throughout most of interval, dominating noise environment, apart from limited lulls. Occasional truck movements in adjacent yard also dominant when present, particularly when idling on weighbridge. Extraneous: No sources audible apart from intermittent vehicle movements on industrial estate roadway. Specific L _{Aeq T} determination: LAeq representative, corrected for near field.						
	25.11.16	0931-1001	0	65	69	54	<54
N6	Facility: Yard sweeper truck audible at low level around site, becoming more audible when approaching nearest yard. In-building operations screened by stored bales. Extraneous: Occasional traffic on industrial estate roadway outside boundary dominant when present. Distant traffic continuously audible at low level. Conveyors at nearby coal facility continuously slightly audible. Specific Laeq T determination: Yard sweeper truck audibility not continuous, thus <l90.< td=""></l90.<>						

^{*}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 installation which is located in an industrial area of Sligo Port. In dry weather SEHL 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 August and September 2016. In November 2016, the Agency notified SEHL that dust monitoring would no longer be required at the installation. The results of the dust monitoring are presented in Table 3.7.

The dust deposition limit (350 mg/m²/day) was exceeded at D1 and D3 in August and at D2 in September. The remaining locations were below the limits set in the Licence.

The sources of the dust at each gauge is not exclusively the SEHL installation, 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 a partially restored local authority landfill to the south. The installation is also bounded to the north by the Port road leading to other industrial units further along the quay. It is considered that the elevated levels are due to off-site sources.

Table 3.7 Dust Monitoring Results 2016

	August 2016 mg/m²/day	September 2016 mg/m²/day	Deposition Limit mg/m²/day
D1	377.9	151.04	350
D2	142.52	392.98	350
D3	725.17	219.54	350
D4	75.98	160.33	350

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 installation office on the 30th June 2016.

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 3.8. 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 installation.

 Table 3.8
 Landfill Gas Monitoring Results 2016

LANDFILL GAS MONITORING FORM					Baseline			Ambient	X
Site Name: SEHL Ltd. – Sligo Depot			Site Address: SEHL, Sligo.						
Operator	:: SEHL				National Grid	Referen	ce:		
Site Statu	s: Operationa	1			Date : 30/06/201	6			
Instrume	nt used:		Noi	rmal Analytic	al Range:				
Gas Data	LMSx		0 –	100%					
Monitori	ng Personnel	: OCM		Weather:					
				Results	5				
Sample	Borehole/	CH ₄	-	CO ₂	Comment				
ID	spike/other	(% v/	v)	(% v/v)					
MW1	Borehole	0.0		0.0					
MW2	Borehole	0.0		0.0					
OFFICE	-	0.0		0.0					

4. SITE DEVELOPMENT WORKS

4.1 Engineering Works

There were a no specified engineering works undertaken in 2016.

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. A recent energy audit was conducted in May 2016

Table 4.1 Estimates of Resources Used On-Site 2016, 2015 & 2014

Resources	Quantities 2016	Quantities 2015	Quantities 2014
Vehicle Diesel	127,100 litres	126,698 Litres	134,332 Litres
Diesel (green)	23,400 litres	18,900 Litres	18,000 Litres
Electricity	133,792 Units	103,945 Units	117,681 Units
Hydraulic & Engine Oil	800 litres	600 litres	400 litres

5. WASTE RECEIVED AND CONSIGNED 2016

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 2016 is presented in the PRTR submission in Appendix 1.

The total quantity of waste received was 25,425 tonnes and the total amount consigned was 26,016 tonnes. For comparative purposes the amounts of waste received and consigned from 2003 to 2015 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 more waste was consigned from the site than accepted. The difference was 590 tonnes and was due to the waste remaining on-site at the end of 2015 which was consigned in 2016.

 Table 5.1
 Waste Received & Consigned 2016

EWC	Description	Waste In	Waste Out
15 01 01	Cardboard Packaging	997.47	1055.66
15 01 02	Plastic Packaging	522.691	90.95
15 01 04	Metallic Packaging	30.71	
15 01 05	Tetrapak	13.02	
15 01 06	Mixed Packaging	2.14	29.82
15 01 07	Glass Packaging	39.155	51.82
16 03 06	Silver Strips	12.04	3.6
16 06 01	Battery		1.51
17 02 03	Plastic	50.275	
17 09 04	Mixed C&D	15.189	25.06
19 08 02	Waste from Desanding	5.94	
19 12 07	Wood other	2.64	
19 12 09	minerals	29.82	
19 12 10	Solid Recovered Fuel (SRF)	13.06	2,146.04
19 12 12	Other Wastes	322.56	2,439.04
20 01 01	Paper & Cardboard	309.653	206.02
20 01 02	Glass Municipal	66.055	47.36
20 01 08	Biodegradable Kitchen & Canteen Waste Wastes	711.215	178.78
20 01 11	Textiles	16.04	24.54
20 01 33	Haz Battery	0.98	1.4
20 01 35	REC Electronics & Electrics	158.91	209.50
20 01 38	Wood from municipal sources	108.92	74.66
20 01 39	Plastic from municipal sources	38.176	
20 01 40	Metal from municipal sources	72.78	
20 02 01	Biodegradable garden & park waste	10.4	
20 02 03		0.42	
20 03 01	Mixed Residual Waste from mechanical		
	treatment	15,047.308	17,766.254
200303	C&I Dry Mixed	289.655	
20 03 07	Bulky Waste	6,538.022	1,664.98
	Total Accepted	25,425.244	
	Total Consigned		26,016.994
	Recovery		20,983.746
	Disposal		5,033.248
	Recovery Rate		80.65%

Table 5.2Waste Received & Consigned 2015

EWC	Description	Waste In	Waste Out
02 07 05	Interceptor Sludge	333.38	271.2
030199	Chip/Grit		
15 01 01	Cardboard Packaging	1135.32	1,103.04
15 01 02	Plastic Packaging	532.138	112.931
150103	Wooden Packaging		11.38
15 01 04	Metallic Packaging	23.25	8.68
15 01 05	Tetrapak	13.47	
15 01 06	Mixed Packaging	1,974.23	2321.58
15 01 07	Glass Packaging	13.495	4.82
16 03 06	Silver Strips	9.82	6.62
160601	Battery		
17 01 07	Concrete, Bricks, Tiles & Ceramics		125.72
17 02 03	Plastic	78.94	
17 09 04	Mixed C&D	15.22	
19 08 02	Waste from Desanding	5.72	
19 12 07	Wood other	0.24	
19 12 09	minerals	48.49	
191210	Solid Recovered Fuel (SRF)	9.48	
19 12 12	Other Wastes	11.64	79.58
20 01 01	Paper & Cardboard	338.905	190.14
20 01 02	Glass Municipal	132.67	152.68
20 01 08	Biodegradable Kitchen & Canteen Waste Wastes	192.692	48.02
20 01 11	Textiles		14.62
200133	Haz Battery		1.68
200135	REC Electronics & Electrics	118.92	197.9
20 01 38	Wood from municipal sources	114.66	18.04
20 01 39	Plastic from municipal sources	26.532	10.01
20 01 40	Metal from municipal sources	33.86	37.02
20 02 01	Biodegradable garden & park waste	8.84	1.08
	Mixed Residual Waste from mechanical		
20 03 01	treatment	9,144.52	19,696.5
200303	C&I Dry Mixed	304.34	
20 03 07	Bulky Waste	8,929.4	1,030.52
	The state of the s	22.550	
	Total Accepted	23,550	25.422
	Total Consigned		25,433
	Recovery		8,470.32
	Disposal		16,962.68
	Recovery Rate		33.3%

 Table 5.3
 Total Tonnages Received and Consigned in 2003-2015

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
2015	25,433	8,470	16,963

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There was one environmental incident during the reporting period which related to an exceedance of the groundwater monitoring limits. There were no other incidents at the installation as defined by the Licence.

Elevated levels of chloride, ammoniacal nitrogen and mineral oil were detected in the upgradient well (MW-1). Total coliforms were detected at low levels, while faecal coliforms were not detected. Elevated levels of chloride, ammoniacal nitrogen, and total and faecal coliforms were detected in the downgradient well (MW-2). The exceedance was reported to the Agency in accordance with Condition 3.3 of the Licence.

6.2 Register of Complaints

SEHL 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

SEHL 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. SEHL 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 on 18th August 2016.

As part of this IMS, SEHL 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 2016 (Table 7.1), as well as the proposed Objectives and Targets for 2017 (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

Name: Claire McMahon

Responsibility: Office administration

Experience: 9 years in the waste industry. Has completed the "FAS" Waste

Management course.

7.1.2 Staff Training

Staff training is carried out for any new staff employed at the installation as required. Copies of all training records are held in the installation office.

7.2 Environmental Management Programme Proposal

7.2.1 Schedule of Objectives 2016

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

7.2.2 Schedule of Objectives 2017

The schedule of targets and objectives for 2017 are presented in Table 7.2.

 Table 7.1
 Schedule of Objective and Targets 2016

No.	Objective	Target	Timescale	Responsibility	Status
1	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	Q1-Q2	Site Management/EHS	Completed
2	Waste storage practices	Review waste storage practices on each site to ensure that they are inline with licence conditions, fire prevention and insurance recommendations	Q2	Site Management/EHS	Ongoing
3	Emergency response procedures - ER pack update	Review the Emergency Response Pack on each site and ensure that all information & equipment required in case of an emergency is available. Confirm that relevant staff training adequately addresses.	02	Site Management/EHS	Ongoing
4	CRAMP, ELRA & Financial Provision	CRAMP, ELRA & Financial Provision to be reviewed	Q2/Q3	EHS team	2017
5	Waste acceptance, classification & records	EWC training for all weighbridge ops. Centralisation of all licences & permits inc NWCPs for hauliers.	Q2/Q3	EHS team	Ongoing

Table 7.2 Schedule of Objective and Targets 2017

No.	Objective	Target	Timescale	Responsibility
1	Odour management	Ensure odour management plans are followed and potential new sources of odour are identified	Q1 - Q4	Site management
2	Fire prevention	Implement recs from Fire Risk Assessments Update ERP & APP Maintain fire detection equipment	Q1 - Q4	Site management/EHS team
3	Waste storage	Review waste storage practices on each site to ensure that they are inline with licence conditions, fire prevention and insurance recommendations	Q1 - Q4	Site management/EHS team
4	Waste acceptance, classification & records	EWC training for all weighbridge ops. Centralisation of all licences & permits inc NWCPs for hauliers.	Q1 - Q4	EHS team
5	CRAMP, ELRA & Financial Provision	CRAMP, ELRA & Financial Provision to be reviewed	Q2	EHS team
6	Lighting in MRF buildings	Clean & upgrade where required all light fittings in MRF buildings	Q3	Site management
7	NWCP exemptions	Implement NWCP exemption declarations	Q1 - Q4	Site management
8	Licence Review	Lodge licence review for changes to waste yypes in CA site	Q2-Q4	EHS team
9	Infrastructure Repairs	Seal up openings in building eves	Q2	Site management

7.3 Communications Programme

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

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.

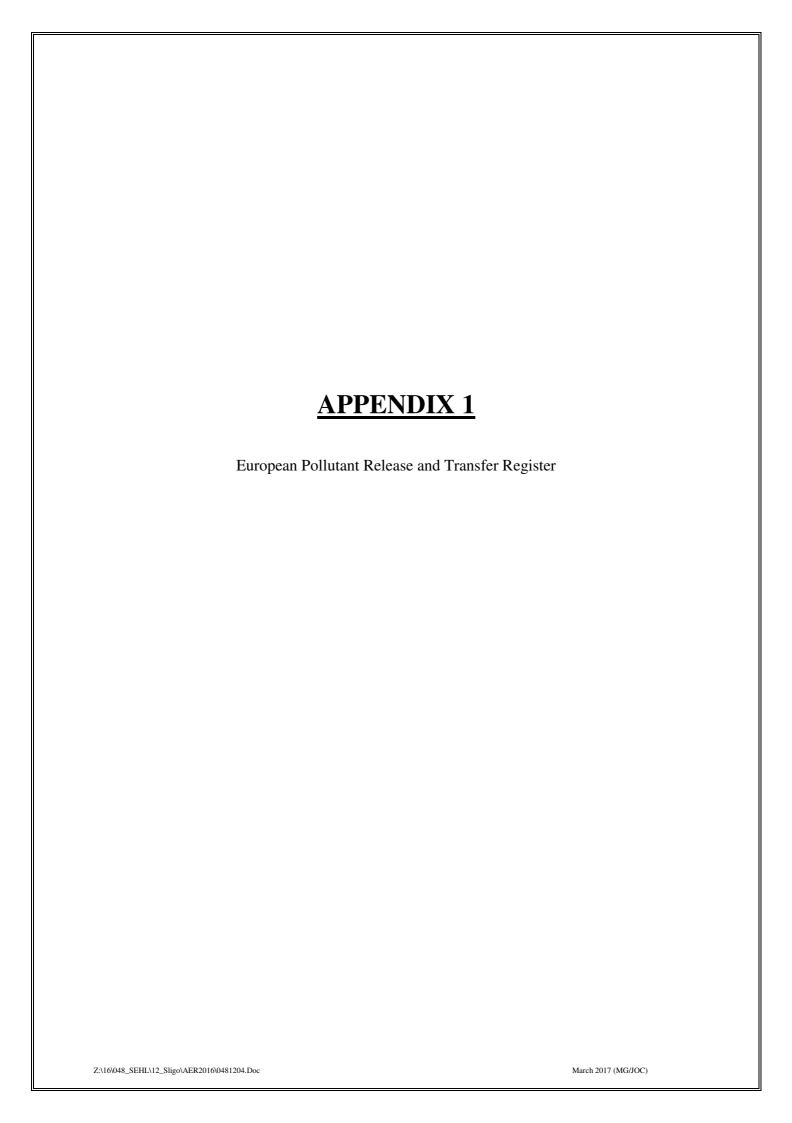
7.4 ELRA & Report on Financial Provision

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 SEHL 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# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2016.xls | Return Year : 2016 |

Guidance to completing the PRTR workbook

PRTR Returns Workbook

Version 1 1 1

REFERENCE YEAR 2016

1. 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

No.	class_name
-	Refer to PRTR class activities below

Address 1	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
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	
AER Returns Contact Email Address	sara.smyth@greenstar.ie
AER Returns Contact Position	Environmental Engineer
AER Returns Contact Telephone Number	01 2746236
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	
Number of Operating Hours in Year	0
Number of Employees	7
User Feedback/Comments	In 2016 there was no flow meter present in the foul water system and
	therefore there are no releases to wastewater reported for the year.
	A flow meter was installed in February 2017 and so releases will be
	reported in the return for 2017. The results for 2016 were all below
Web Address	

2. PRTR CLASS ACTIVITIES

<u> </u>	AGG AGTIVITIEG	
Activity Nur	mber	Activity Name
5(c)		Installations for the disposal of non-hazardous waste
5(c)		Installations for the disposal of non-hazardous waste
50.1		General

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

Is it applicable	?
Have you been granted an exemption	?
If applicable which activity class applies (as p	er
Schedule 2 of the regulations)	?
Is the reduction scheme compliance route beir	g
used	?

4. WASTE IMPORTED/ACCEPTED ONTO SITE

Guidance on waste imported/accepted onto site

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

4.1 RELEASES TO AIR

Link to previous years emissions data

| PRTR# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2016.xls | Return Year : 2016 |

31/03/2017 12:55

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR			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
					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 KC	is		
POLLUTANT			MET	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	0.0

^{*} 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			M	ETHOD	QUANTITY				
			Method Used						
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) I	(G/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/y for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill: Starrus Eco Holdings Limited (Sligo)

starrus Eco Floidings Eirnited (Silgo)				_	
		Meth	nod Used		
			Designation or	Facility Total Capacity m3	
T (Total) kg/Year	M/C/E	Method Code	Description	per hour	
0.0				N/A	
0.0				0.0	(Total Flaring Capacity)
0.0				0.0	(Total Utilising Capacity)
0.0				N/A	
,	T (Total) kg/Year 0.0 0.0 0.0	T (Total) kg/Year M/C/E	T (Total) kg/Year	T (Total) kg/Year M/C/E Method Used Designation or Description 0.0 0.0 0.0	Method Used Designation or Facility Total Capacity m3 per hour

4.2 RELEASES TO WATERS

Link to previous years emissions data

| PRTR# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2016.xls | Return Year : 2016 |

31/03/2017 12:55

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 1

	RELEASES TO WATERS		Please enter all quantities in this section in KGs								
POI	LUTANT						QUANTITY				
				Method Used							
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year			
					C	.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 quanti	ties	in this section in K	Gs		
РО	LLUTANT							QU	JANTITY	
			Method Used							
No. Annex II	Name	M/C/E	Method Code Designation or Descrip	tion	Emission Point 1		T (Total) KG/Year	Α (Accidental) KG/Year	F (Fugitive) KG/Yea
						0.0	0	0.0	0.0	C

^{*} 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	S	
POI	LUTANT						QUANTITY	
				Method Used				
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

^{*} 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# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2016.xl

31/03/2017 12:56

SECTION A: PRTR POLLUTANTS

	OFFSITE TRANS	SFER OF POLLUTANTS DESTINED FOR WASTE-W	EATMENT OR SEWER		Please enter all quantities i	n this section in KG	S			
	РО	LLUTANT		METHO	DD			(QUANTITY	
				Method Used						
N	o. 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 POLLUTANT EMISSIONS (as required in your Licence)

OLOTION DITTEMANTATION OLLOTANT EINIC	ociono (ao requirea in your Elochoc)										
OFFSITE TRAN	SFER OF POLLUTANTS DESTINED FOR WASTE-W	ATER TRI	EATMENT OR SEWI	ER	Please enter all quantities in this section in KGs						
PO	LLUTANT		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

Link to previous years emissions data Page 1 of 1

4.4 RELEASES TO LAND

Link to previous years emissions data

| PRTR# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2016.xls | Return Year : 2016 |

31/03/2017 12:56

SECTION A: PRTR POLLUTANTS

	RELEASES TO LAND				Please enter all quantities	in this section in KGs	
	POLLUTANT		METH	HOD			QUANTITY
			M	lethod 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	1	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#: W0058 | Facility Name: Starrus Eco Holdings Limited (Sligo) | Filename: W0058_2016.ds | Return Year: 2016 |

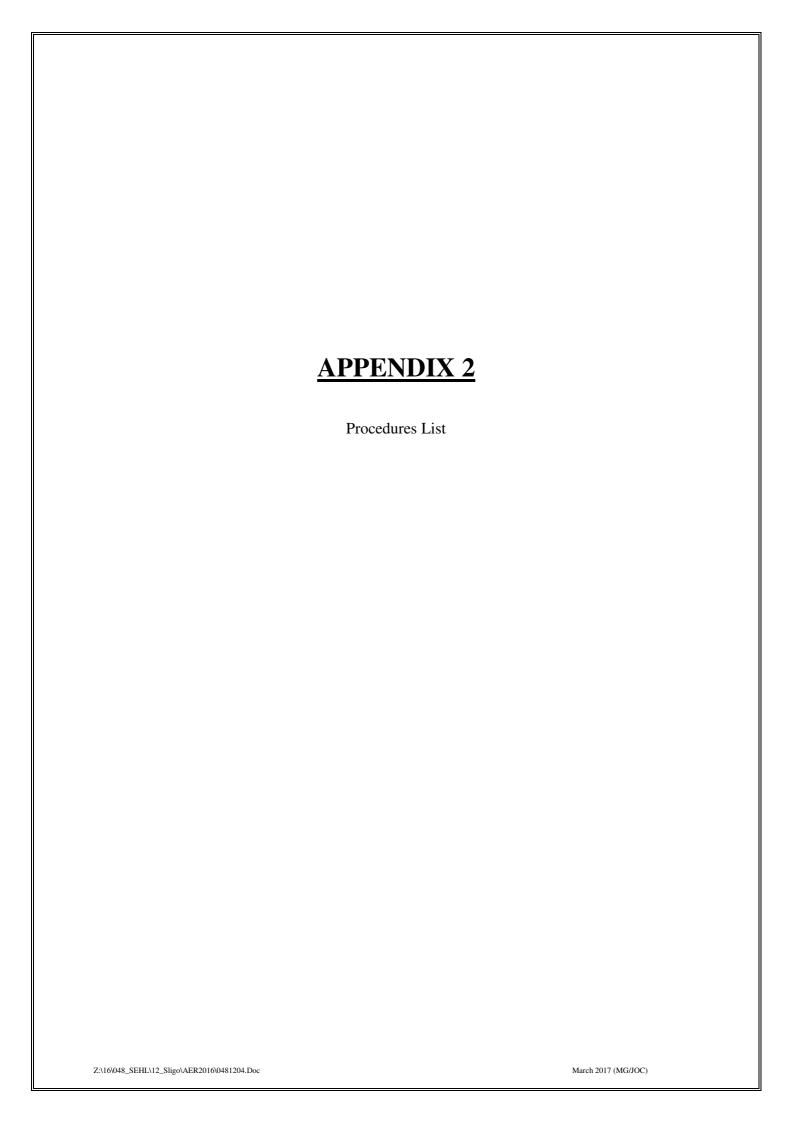
31/03/2017 12:56

	•		Please enter	all quantities on this sheet in Tonnes				1	riaz wasie . Ivalile dilu	1		(
			Quantity (Tonnes per Year)		Waste		Method Used	_	Licence/Permit No of Next Destination Facility Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
Transfer Destination	European Waste Code	Hazardous		Description of Waste	Treatment Operation	M/C/E	Method Used	Location of Treatment				
									Irish Packaging & Recycling	Ballymount		
Within the Country	15 01 01	No	296.58	3 paper and cardboard packaging	R13	М	Weighed	Offsite in Ireland	Ltd.,W0263-01	12,,Ireland Millennium Business Park		
									Starrus Eco Holdings	,,,Ballycoolin, Dublin 11,		
Within the Country	15 01 01	No	153.46	paper and cardboard packaging	R13	М	Weighed	Offsite in Ireland		Ireland The Kipper		
Within the Country	15.01.01	No	60.46	6 paper and cardboard packaging	R13	М	Weighed	Offeite in Ireland	Materia Environment Ltd.,IRE/AG161/11	House, Scilly, Kinsale, Co. Cork, Ireland		
Within the Country	130101	140	03.40	paper and cardboard packaging	1110	IVI	weighed	Offsite in freiding	Agnail Ltd	Ballymacken Industrial Estate,Ballymacken		
To Other Countries	15 01 01	No	47.4	paper and cardboard packaging	R13	М	Weighed	Abroad	Broker,IRE/AG117/16 MLM Ltd (ACM Europe	,Portlaoise,Co. Laois,Ireland		
To Other Countries	15 01 01	No	191.46	paper and cardboard packaging	R13	М	Weighed	Abroad	UK).,TFS Broker IRE/G021/11	.,,,,,UNITED KINGDOM		
To Other Countries	15 01 01	No	20.76	paper and cardboard packaging	R13	М	Weighed	Abroad	Mark Lydon Enterprises Ltd,IRE/G021/12	.,,,,,United Kingdom Baanhoekweg 4 ,3313 LA		
To Other Countries	15 01 01	No	191.06	paper and cardboard packaging	R13	М	Weighed	Abroad	Peute Recycling,TFS Broker IRE/G006/11	Dordrecht ,Netherlands,Netherlands,Ne therlands		
									Leinster Environmental,WP	Haggartstown,,Dundalk,Co		
Within the Country	15 01 02	No	56.89	plastic packaging	R13	М	Weighed	Offsite in Ireland	2008/06 Agnail Ltd	Louth, Ireland Ballymacken Industrial Estate, Ballymacken		
Within the Country	15 01 02	No	26.16	S plastic packaging	R13	М	Weighed	Offsite in Ireland	Broker,IRE/AG117/16	,Portlaoise,Co. Laois,Ireland Ballymount		
Within the Country	15 01 02	No	7.9	P plastic packaging	R13	М	Weighed	Offsite in Ireland	Irish Packaging & Recycling Ltd.,W0263-01	12,.,Ireland		
Within the Country	15 01 06	No	29.82	2 mixed packaging	R13	М	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrowne, Headford Rd, Co Galway,., . Ireland Lawlesstown , Clonmel , Co.		
										Tipperary ,Co. Tipperary		
Within the Country	15 01 07	No	23.24	I glass packaging	R13	М	Weighed	Offsite in Ireland	Clonmel Waste ,WP-008-02	Ireland, Ballymount Avenue		
Within the Country	15 01 07	No	28.58	3 glass packaging	R13	М	Weighed	Offsite in Ireland	Rehab Recycling Ltd. ,WPR 004	,Clondalkin,Dublin 22,.,Ireland		
										Oldbury Road,Westbromich,Westmid		
To Other Countries	16 03 06	No	3.6	organic wastes other than those mentioned in 16 03 05	R4	М	Weighed	Abroad	JBR Recovery Ltd,EPR/BJ9878IQ	lands,B70 9BS,UNITED KINGDOM		
				mixed construction and demolition wastes other than those mentioned in 17 09 01, 17					Harringtons Quarry COR-SO	- Abbeytown,.,Ballysodare,.,Ire		
Within the Country	17 09 04	No	25.06	6 09 02 and 17 09 03 other wastes (including mixtures of	R13	М	Weighed	Offsite in Ireland	12-002-01	land		
To Other Countries	19 12 12	No	2419.9	materials) from mechanical treatment of wastes other than those mentioned in 19 12 3 11	R13	М	Weighed	Abroad	Attero BV,6070283	Vamweg 7,9418 TM Wijster,,Netherlands		
			2413.3	other wastes (including mixtures of materials) from mechanical treatment of	0			. 2.000	2 ., 0200			
Within the Country	19 12 12	No	19.14	wastes other than those mentioned in 19 12 11 11	R13	М	Weighed	Offsite in Ireland	Nurendale,W0140-04	Rathdrinagh,Beauparc,Nava n,Co. Meath,Ireland Millennium Business Park		
Within the Country	20 01 01	No	141.04	paper and cardboard	R13	М	Weighed	Offsite in Ireland	Starrus Eco Holdings Ltd.,W0183-01	,.,Ballycoolin, Dublin 11, Ireland		
Within the Country	20 01 01	No	64.98	3 paper and cardboard	R13	М	Weighed	Offsite in Ireland	Irish Packaging & Recycling Ltd.,W0263-01	Ballymount Road,Walkinstown,Dublin 12,.,Ireland		
		-	21.00				5					

Parameter Designation Control	_													
Part											Licence/Permit No of Next			
Process Proc					Quantity									
Part											Haz Waste: Name and			Actual Address of Final Destination
Treatment Content Co									Method Used					
Martin the County 2011 22 10 11.12 glass 11.12 g							Waste							
Marken the Country 2011 20 No 11.15 glass R13 M Weighted Official in Interest Country Marken the Country 2011 20 No 36.74 glass R13 M Weighted Official in Interest Country Marken the Country 2011 20 No 178.76 biodegradable kitchet and canteer water R3 M Weighted Official in Interest Country														
Manus Manu	L	Transfer Destination	Code	Hazardous		Description of Waste	Operation	M/C/E	Method Used	Treatment				
Might the Country 20 0 10 20 0														
Marie the Country 20 to 10 c	,	Mithin the Country	20.01.02	No	11 10	alana	D12	M	Weighod	Officito in Iroland	Clanmal Wasta WP 009 03			
Minim has Caurery 20 10 20 10 10 10 10 10		vitiliii tile Country	20 01 02	INO	11.12	yidss	nis	IVI	weighed	Offsite in freiditu	Cioninei Waste ,WF-006-02			
Main the Country 2011 0 10 10 10 10 10 10											Rehab Recycling Ltd., WPR			
Material to Courty 2011 1	١	Vithin the Country	20 01 02	No	36.24	glass	R13	М	Weighed	Offsite in Ireland				
With the County 20 1 1 1 No		•				•			· ·			Carrowbrowne, Headford		
Minish the Country 20 1 11 No	١	Vithin the Country	20 01 08	No	178.78	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Rd,Co Galway,., . Ireland		
Until the Country 20 1 37 Yes 20 1 38 Yes														
Within the Country 20 1 33	١	Vithin the Country	20 01 11	No			R13	M	Weighed	Offsite in Ireland	Ltd,WPR014	24,,Ireland		
Within the Country 20 1 35 Ves 1 Abstractives and accumulations containing these Country 20 1 35 Ves 20 2 518 hazardous comproments with the Market Media Mode Media W011-3 Collaboration and electronic containing the Market Mode Market W011-3 Collaboration and electronic containing the Market Mode Market W011-3 Collaboration and electronic containing the Market M011-3 Collaboration and electronic containing the M011-3 Collaboration and electronic containing the M011-3 Collaboration and electronic containing the M011-3 Collaboration and electronic contai														
Within the Country 20 13 3												Tullamara Ca	KMK Matala W0112	
Selection and description of the Country of 10 1 3 5	,	Within the Country	20.01.33	Voc			B4	M	Weighed	Offeite in Ireland				tullamore offaly ireland
Part		Vitiliii tile Oddriti y	200133	163			114	IVI	vveigned	Offsite in freiding	NWIN Wetals, WOTTS-03	Onary, ir eland	os,tuliarilore,-,-,orrary,ii elarid	tuliamore,-,-,onaly,ireland
Within the Country 20 01 35 Yes 20 13 5 Yes 20 13														
Within the Country 20 01 38												Tullamore,,Co	KMK Metals,W0113-	
Within the Country 20 13 8 No 6.24 wood other than that mentioned in 20 11 37 R1 M Weighed Offset in Ireland CoCH Water Country 20 10 13 8 No 6.8.42 wood other than that mentioned in 20 11 37 R1 M Weighed Offset in Ireland CoCH Water Country 20 10 30 1 No 254.6 mixed municipal waste D5 M Weighed Offset in Ireland Country 20 10 30 1 No 3430.926 mixed municipal waste D5 M Weighed Offset in Ireland Country 20 10 30 1 No 3430.926 mixed municipal waste D5 M Weighed Offset in Ireland Country 20 10 30 1 No 3430.926 mixed municipal waste D5 M Weighed Offset in Ireland Country 20 10 30 1 No 3450.926 mixed municipal waste D5 M Weighed Offset in Ireland Country 20 10 30 1 No 3450.926 mixed municipal waste D5 M Weighed Offset in Ireland Country 20 10 30 1 No 3450.926 mixed municipal waste D5 M Weighed Offset in Ireland Country 20 10 30 1 No 3450.926 mixed municipal waste D5 M Weighed Offset in Ireland Country 20 10 30 1 No 3450.926 mixed municipal waste D5 M Weighed Offset in Ireland Country 20 10 30 1 No 8867.56 mixed municipal waste D5 M Weighed Offset in Ireland Country 20 10 30 1 No 8867.56 mixed municipal waste D5 M Weighed Offset in Ireland Country 20 10 30 1 No 8867.56 mixed municipal waste D5 M Weighed Offset in Ireland Country 20 10 30 7 No 88.26 bulky waste D5 M Weighed Offset in Ireland Country 20 10 30 7 No 88.26 bulky waste D5 M Weighed Offset in Ireland Country 20 10 30 7 No 88.26 bulky waste D5 M Weighed Offset in Ireland Country 20 10 30 7 No 88.26 bulky waste D5 M Weighed Offset in Ireland Country 20 10 30 7 No 12 48.8 bulky waste D5 M Weighed Offset in Ireland Country 20 10 30 7 No 12 48.8 bulky waste D5 M Weighed Offset in Ireland Country 20 10 30 7 No 12 48.8 bulky waste D5 M Weighed Offset in Ireland Country 20 10 30 7 No 12 48.8 bulky waste D5 M Weighed Offset in Ireland Country 20 10 30 7 No 12 48.8 bulky waste D5 M Weighed Offset in Ireland Country 20 10 30 7 No 12 48.8 bulky waste D5 M Weighed Offset in Ireland Country 20 10 30 7 No 12 48.8 bulky waste D5 M Weighed Offset in Ireland Country 20 10 3	١	Vithin the Country	20 01 35	Yes	205.18	hazardous components	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-03	Offaly, Ireland	03,tullamore,-,-,offaly,ireland	tullamore,-,-,offaly,ireland
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											Starrus Eco Holdings			
	,	Vithin the Country	20 03 07	No	8.76	bulky waste	R13	М	Weighed	Offsite in Ireland				

	Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation		Method Used Method Used	Location of Treatment	Licence/Permit No of Next Destination Facility Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
•					<u> </u>			•	•	•	Ballymount		
										Nurendale Limited,W0039-	Cross, Tallaght, Dublin		
	Within the Country	15 01 01	No	85.48 p	paper and cardboard packaging	R13	M	Weighed	Offsite in Ireland	02	24,.,Ireland		
										Nurendale Limited,W0140-	Rathdrinagh, Beauparc, Nava		
	Within the Country	20 03 07	No	216.02 b	oulky waste	R13	M	Weighed	Offsite in Ireland	04	n,Co. Meath,Ireland		
											Vamweg 7,9418 TM		
	To Other Countries	19 12 10	No	2146.04	combustible waste (refuse derived fuel)	R13	M	Weighed	Abroad	Attero BV,6070283	Wijster,,Netherlands		

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







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Integrate	ed 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 02, 21/01/16
IP-06	Competence, Training & Awareness Procedure	Rev 01, 28/04/14
IP-07	Communication & Consultation Procedure	Rev 02, 21/01/16
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 02, 21/01/16
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
IP-18	Accident Prevention Procedure	Rev 02, 14/11/16
IP-19	Fuel Procedure for Tanks & Mobile Plant	Rev 01, 11/01/17

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	



Procedure Listing

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Environmental 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 02, 06/05/15
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





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Amendment History

Date	Amendment No.	Procedure No:	Revision No:	Comment	Authorised By
05.07.10	01	All	01	Initial Issue	M.D & O.C
13.09.10	02	EP-03	02	Issue of Incident Reports	M.D
20.09.10	03	IP-10	02	Env issues not logged on WIMS Database	M.D
29.10.10	04	IP-13	02	Use of M&M equipment by contractors	M.D & O.C
29.10.10	05	IP-14	02	Use of M&M equipment by contractors	M.D & O.C
29.10.10	06	SP-02	02	Inclusion of Maintenance Schedule	M.D & O.C
05.11.10	07	IP-04	02	Inclusion of other requirements	S.B & O.C
01.02.11	08	SP-08	01	Inclusion of new procedure	O.C
01.02.11	09	IP-10	03	Inclusion of SP-08	O.C
01.02.11	10	IP-15	02	Removal of SF-022	0.C
01.02.11	11	Contents	As shown	EP-10 Site Specific	M.D & O.C
01.02.11	12	IP-06	02	Addressing Agency Staff needs	M.D & O.C
01.02.11	13	Circ List	02	Amendment to document control	M.D & O.C
04.04.11	14	SP-02	03	Inclusion of Site Specific Maintenance schedules	O.C
07.06.11	15	IP-11	02	Inclusion of H&S & Env Internal Audit Schedules	M.D & O.C
14/09/11	16	EP-02	02	Inclusion of decommissioning of plant/equipment	S.B
15/09/11	17	IP-09	02	Inclusion of Statutory Inspections	O.C
01/12/11	18	SP-09	01	Inclusion of new procedure for SCGT	O.C
01/12/11	19	SP-10	01	Inclusion of new procedure for SCGT	O.C
03/05/12	20	SP-01	02	Amendment to remove SF 028	O.C
05/05/12	21	SP-11	01	Inclusion of a new procedure for Greenogue	O.C
28/05/12	22	IP-11	03	General Amendments to internal audit procedure	M.D & O.C
08/06/12	23	IP-13	03	Grammatical amendment	M.D & O.C
15/04/13	24	IP-06	03	Agency staff – sign-off record sufficient proof of training. TMS optional	M.D & O.C





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Date	Amendment No.	Procedure No:	Revision No:	Comment	Authorised By
30/06/13	25	IP-16	01	Inclusion of new procedure	M.D.
09/09/13	26	IP-03	02	Use of Scannell Software Solutions (EnviroManager) instead of IF-03A	M.D & O.C
09/09/13	27	IP-04	30	Use of Scannell Software Solutions (EnviroManager) instead of IF-03A	M.D & O.C
09/09/13	28	IP-05	02	Use of Scannell Software Solutions (EnviroManager) instead of IF-03A	M.D & O.C
16/10/13	29	EP-03	03	Introduction of EPA ALDER Portal	K.B
28/04/14	30	All EP's & IP's	01	Change of Company name and review of all Integrated and Env procedures	M.D & O.C
28/04/14	31	SP's	01	Change of Company name and review of all safety procedures including re- numbering & deletion of Motor Claim Notification Procedure – SP 08	o.c
06/05/15	32	EP-09	02	Ref to new form EF-11 added	SS
21/01/16	33	IP-05/IP- 07/IP-12	02	Meeting frequency refs updated	SS
14/11/16	34	IP-18	02	Amended as per EPA instruction	SS
11/01/17	35	IP-19	01	New addition	SS





setting the standard		
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Circulation List

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