

Facility Information Summary	
AER Reporting Year	2018
Licence Register Number	P0777-02
Name of site	Huntstown Power Station (Phase 2)
Site Location	Huntstown Power Station, Finglas, Dublin 11
NACE Code	3511
Class/Classes of Activity	2.1 The Operation of Combustion Installation with a rated thermal
National Grid Reference (6E, 6 N)	-6.32607 53.4116

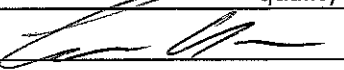
A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year **and an overview of compliance with your licence listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.**

Viridian Power Limited operate a gas fired combined cycle Power Station at Huntstown, Finglas, Dublin 11. The combined cycle gas turbine (CCGT) operates on natural gas as the primary fuel with distillate oil as a standby fuel. Huntstown Power Station continued to produce electricity in 2018 as required by the Grid operator.

**Summary of 2018 Environmental Performance:** The plant was dispatched at higher level of operations when compared to the previous year which is reflected in the emissions from the plant. The plant successfully achieved ISO14001:2015 accreditation for Environmental Management in 2018 following an NSAI audit. There were no complaints received during the year. CO2 emissions continue to be reported annually as part of the Greenhouse Gas Permit.

#### Declaration:

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

	<u>27/03/2019</u>
Signature	Date
Group/Facility manager	
(or nominated, suitably qualified and experienced deputy)	

<b>AIR-summary template</b>	Lic No:	P0777-02	Year	2018
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Answer all questions and complete all tables where relevant

Additional information

- 1 Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If **you do not have** licenced emissions and **do not complete a solvent management plan** (table A4 and A5) you do not need to complete the tables

Yes	
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### Periodic/Non-Continuous Monitoring

- 2 Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below

No	
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- 3 Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist?

[Basic air monitoring checklist](#)

[AGN2](#)

Yes	
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**Table A1: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)**

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
E3	Dust	BiAnnually	2mg/m3 gas firing, 10mg/m3 oil firing	95% of hourly mean values of each year do not exceed 200% of ELV	0.06	mg/Nm3	yes	OTH	485.43	Measured value based on a twice yearly spot check by accredited contractor.
E3	Volumetric flow	Continuous	2,800,000m3 gas firing, 2,400,000m3 oil firing	100 % of values < ELV	1356.03 m3/hr (average hourly)	Nm3/hour	yes	OTH	8090501.53 m3	Plant operation reduced on previous year.
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		

Note 1: Volumetric flow shall be included as a reportable parameter

AIR-summary template		Lic No:	P0777-02	Year	2018
<b>Continuous Monitoring</b>					
4	Does your site carry out continuous air emissions monitoring?	Yes			
If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)					
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	No			
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	Yes			
7	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	No			

**Table A2: Summary of average emissions -continuous monitoring**

Emission reference no:	Parameter/ Substance	ELV in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
E3	Nitrogen oxides (NOx/NO2)	50mg/m3 Gas Firing, 90mg/m3 Oil Firing	hourly	Daily mean values < 110 % of ELV; 95% hourly mean values for year <200% ELV. ELV only applies above 70% load.	mg/Nm3	354,904.75	47.44	0	0	Plant utilisation higher than previous year
E3	Sulphur oxides (SOx/SO2)	80mg/m3 oil firing	hourly	Daily average < 110 % of ELV	mg/Nm3	296.76 kg	1.2	0	0	Plant utilisation higher than previous year
E3	Volumetric flow	2,800,000m3 gas firing, 2,400,000m3 oil firing	hourly	100 % of values < ELV	m3	8,090,501.53 m3	1913.46	0	0	Plant utilisation higher than previous year
E3	Carbon monoxide (CO)	100mg/m3 firing gas and oil	hourly	Daily mean values < 110 % of ELV; 95% hourly mean values for year <200% ELV. ELV only applies above 70% load.	mg/Nm3	496,779.87 kg	241.7	0	0	Plant utilisation higher than previous year
E3	PM10	2mg/m3 gas firing, 10mg/m3 oil firing	hourly	95% of hourly mean values of each year do not exceed 200% of ELV	mg/Nm3	4,116.78kg	1.99	0	0	Plant utilisation higher than previous year

note 1: Volumetric flow shall be included as a reportable parameter.

**Table A3: Abatement system bypass reporting table**

[Bypass protocol](#)

Date*	Duration** (hours)	Location	Reason for bypass	Impact magnitude	Corrective action

\* this should include all dates that an abatement system bypass occurred

\*\* an accurate record of time bypass beginning and end should be logged on site and maintained for future Agency inspections please refer to bypass protocol link



<b>AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)</b>			Lic No:	P0777-02	Year	2018
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1 Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. **If you do not have** licenced emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections

2 Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections

Additional information	
Yes	
No	

**Table W1 Storm water monitoring**

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	

\*trigger values may be agreed by the Agency outside of licence conditions

**Table W2 Visual inspections-Please only enter details where contamination was observed.**

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
			SELECT		
			SELECT		

**Licensed Emissions to water and /or wastewater(sewer)-periodic monitoring (non-continuous)**

3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below

Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas

4 require improvement in additional information box

[External/Internal](#)

[Lab Quality](#)

[checklist](#)

[Assessment of](#)

[results checklist](#)

No	Additional information	
Yes		

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## AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)

Lic No:

P0777-02

Year

2018

Table W3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereofNote 2	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
WWTP II-SE	Water	BOD	composite	3 Months	24 hour	7	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1st Quarter: 1; 2nd Quarter: 1; 3rd Quarter 1; 4th Quarter 1	mg/L	yes	INSTRUMENTAL METHODS	APHA / AWWA "Standard Methods"		7.93	Based on measured quarterly average
WWTP II-SE	Water	COD	composite	3 Months	24 hour	50	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1st Quarter: 10; 2nd Quarter: 10; 3rd Quarter 10; 4th Quarter 10	mg/L	yes	Hach Method 8000	US EPA		79.29	Based on measured quarterly average
WWTP II-SE	Water	Suspended Solids	composite	3 Months	24 hour	30	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1st Quarter: 2; 2nd Quarter: 3; 3rd Quarter 6; 4th Quarter 2	mg/L	yes	Gravimetric Analysis	APHA / AWWA "Standard Methods"		23.79	Based on measured quarterly average
WWTP II-SE	Water	Total Dissolved Solids	composite	3 Months	24 hour	1800	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1st Quarter: 467; 2nd Quarter: 273; 3rd Quarter 177; 4th Quarter 886	mg/L	yes	INSTRUMENTAL METHODS	APHA / AWWA "Standard Methods"		3574.04	Based on measured quarterly average
WWTP II-SE	Water	Ammonia (as N)	composite	3 Months	24 hour	1.5	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1st Quarter: 0.015; 2nd Quarter: 0.026; 3rd Quarter 0.012; 4th Quarter 0.027	mg/L	yes	Konelab Analyser	HMSO (UK)		0.16	Based on measured quarterly average
WWTP II-SE	Water	Total phosphorus	composite	3 Months	24 hour	0.1	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1st Quarter: 0.05; 2nd Quarter: 0.05; 3rd Quarter 0.05; 4th Quarter 0.06	mg/L	yes	Photometric	EN ISO		0.42	Based on measured quarterly average
WWTP II-SE	Water	Mineral oils	composite	3 Months	24 hour	10	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1st Quarter: 0.00013; 2nd Quarter: 0.00013; 3rd Quarter 0.00013; 4th Quarter 0.00026	mg/L	yes	GC-FID	US EPA	8015B	0	Based on measured quarterly average
WWTP II-SE	Water	Free Residual Chlorine	composite	3 Months	24 hour	0.2	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1st Quarter: 0.05; 2nd Quarter: 0.05; 3rd Quarter 0.05; 4th Quarter 0.07	mg/L	yes	Spectrophotometry (Colorimetry)	Manufacturer method		0.44	Based on measured quarterly average
WWTP II-SE	Water	Nitrate (as N)	composite	3 Months	24 hour	5	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1st Quarter: 1.59; 2nd Quarter: 1.6; 3rd Quarter 0.973; 4th Quarter 1.48	mg/L	yes	Konelab Analyser	APHA / AWWA "Standard Methods"	4500-NO3	11.19	Based on measured quarterly average
WWTP II-SE	Water	Total nitrogen	composite	3 Months	24 hour	5	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1st Quarter: 1.7; 2nd Quarter: 0.0; 3rd Quarter 0; 4th Quarter 0.25	mg/L	yes	Konelab Analyser	APHA / AWWA "Standard Methods"	4500-NO3	3.87	Based on measured quarterly average
WWTP II-SE	Water	volumetric flow		Continuous	1 hour	13	No flow value shall exceed the specific limit.	7929.09		yes	Flowmeter	Manufacturer method			

Note 1: Volumetric flow shall be included as a reportable parameter

Note 2: Where Emission Limit Values (ELV) do not apply to your licence please compare results against EQS for Surface water or relevant receptor quality standards

## AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)

Lic No:

P0777-02

Year

2018

## Continuous monitoring

5 Does your site carry out continuous emissions to water/sewer monitoring?

Yes	Additional Information
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If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)

6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table W4 below

No	
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7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?

Yes	
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8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

No	
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Table W4: Summary of average emissions -continuous monitoring

Emission reference no:	Emission released to	Parameter/ Substance	ELV or trigger values in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission for current reporting year (kg)	% change +/- from previous reporting year	Monitoring Equipment downtime (hours)	Number of ELV exceedences in reporting year	Comments
WWTP II-SE	Water	pH	6 TO 9	1 hour	No pH value shall deviate from the .specified range	pH units	6.97	0.3	0	0	Hourly average value is referenced in kg column
WWTP II-SE	Water	Conductivity	N/A	1 hour	No criteria	µS/cm @20oC	478.4	28.17	0	0	Hourly average value is referenced in kg column
WWTP II-SE	Water	Temperature	25	1 hour	No temperature value shall exceed the limit .value	degrees C	18.43	9.7		0	Hourly average value is referenced in kg column
WWTP II-SE	Water	volumetric flow	13	1 hour	No flow value shall exceed the .specific limit	m3/hr	4.56	14.2	0	0	Hourly average value is referenced in kg column

note 1: Volumetric flow shall be included as a reportable parameter.

Table W5: Abatement system bypass reporting table

Date	Duration (hours)	Location	Resultant emissions	Reason for bypass	Corrective action*	Was a report submitted to the EPA?	When was this report submitted?
						SELECT	

\*Measures taken or proposed to reduce or limit bypass frequency

<b>Bund/Pipeline testing template</b>	Lic No:	P0777-02	Year	2018
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#### Bund testing

dropdown menu click to see options

#### Additional information

Are you required by your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all **new bunds and containment structures** on site, in addition to **all bunds which failed the integrity test-all bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period** (mobile bunds and chemstore included)

1 Please provide integrity testing frequency period

Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)

4 How many bunds are on site?

5 How many of these bunds have been tested within the required test schedule?

6 How many mobile bunds are on site?

7 Are the mobile bunds included in the bund test schedule?

8 How many of these mobile bunds have been tested within the required test schedule?

9 How many sumps on site are included in the integrity test schedule?

10 How many of these sumps are integrity tested within the test schedule?

**Please list any sump integrity failures in table B1**

11 Do all sumps and chambers have high level liquid alarms?

12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?

13 Is the Fire Water Retention Pond included in your integrity test programme?

Yes	
3 years	
Yes	
32	
5 out of 32 due in 2018 (3 year rolling test system)	
15	
Yes	
15 mobile bunds but none due for testing in 2018	
0	
2	
2	
No failures in 2018	
Yes	
Yes	
N/A	

**Table B1: Summary details of bund /containment structure integrity test**

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
	SELECT					SELECT			SELECT	SELECT		SELECT		
	SELECT					SELECT			SELECT	SELECT		SELECT		

\* Capacity required should comply with 25% or 130% containment rule as detailed in your licence

Has integrity testing been carried out in accordance with licence requirements and are all structures tested in

15 line with BS8007/EPA Guidance?

16 Are channels/transfer systems to remote containment systems tested?

17 Are channels/transfer systems compliant in both integrity and available volume?

[bundings and storage guidelines](#)

Yes	
No	N/A
No	N/A

#### Pipeline/underground structure testing

Are you required by your licence to undertake integrity testing\* on underground structures e.g. pipelines or sumps etc ? if yes please fill out table 2 below listing all underground structures and pipelines on site **which failed the integrity test and all which have not been tested within the integrity test period as specified**

2 Please provide integrity testing frequency period

\*please note integrity testing means water tightness testing of all underground pipelines (as required under your licence)

Yes	
3 years	Condition 6.9 of licence. Records maintained on site

**Table B2: Summary details of pipeline/underground structures integrity test**

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

Please use commentary for additional details not answered by tables/ questions above



Groundwater/Soil monitoring template			Lic No:	P0777-02	Year	2018
			Comments			
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes	Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretation as an additional section in this AER			
2	Are you required to carry out soil monitoring as part of your licence requirements?	no				
3	Do you extract groundwater for use on site? If yes please specify use in comment section	yes				
4	Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below.	no	Sample values were low for the reporting year. Water is only used as process water and not for drinking water purposes.			
5	Is the contamination related to operations at the facility (either current and/or historic)	N/A				
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	N/A				
7	Please specify the proposed time frame for the remediation strategy	N/A				
8	Is there a licence condition to carry out/update ELRA for the site?	yes				
9	Has any type of risk assessment been carried out for the site?	yes				
10	Has a Conceptual Site Model been developed for the site?	N/A				
11	Have potential receptors been identified on and off site?	N/A				
12	Is there evidence that contamination is migrating offsite?	N/A				

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
02/02/2018 11/04/2018 02/07/2018 18/10/2018	Well 3	Faecal Coliforms	Filtration	6 Months	<1	<1	cfu/100ml	N/A	IGV	no
02/02/2018 11/04/2018 02/07/2018 18/10/2018	Well 3	Total Coliforms	Filtration	6 Months	<10	2.5	cfu/100ml	N/A	IGV	no
02/02/2018 11/04/2018 02/07/2018 18/10/2018	Well 3	Ammonia (as N)	Konelab Analyser	6 Months	0.106	0.051	mg/l	0.065-0.175	IGV	no
02/02/2018 11/04/2018 02/07/2018 18/10/2018	Well 2	Faecal Coliforms	Filtration	6 Months	<1	<1	cfu/100ml	N/A	IGV	no
02/02/2018 11/04/2018 02/07/2018 18/10/2018	Well 2	Total Coliforms	Filtration	6 Months	0	0	cfu/100ml	N/A	IGV	no
02/02/2018 11/04/2018 02/07/2018 18/10/2018	Well 2	Ammonia (as N)	Konelab Analyser	6 Months	0.074	0.054	mg/l	0.065 - 0.175	IGV	no
02/02/2018 11/04/2018 02/07/2018 18/10/2018	Well 1	Faecal Coliforms	Filtration	6 Months	<1	<1	cfu/100ml	N/A	IGV	no
02/02/2018 11/04/2018 02/07/2018 18/10/2018	Well 1	Total Coliforms	Filtration	6 Months	0	0	cfu/100ml	N/A	IGV	no
02/02/2018 11/04/2018 02/07/2018 18/10/2018	Well 1	Ammonia (as N)	Konelab Analyser	6 Months	0.091	0.032	mg/l	0.065 - 0.17	IGV	no

+ where average indicates arithmetic mean

++ maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year

<b>Groundwater/Soil monitoring template</b>	Lic No:	P0777-02	Year	2018
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**Table 2: Downgradient Groundwater monitoring results**

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
							SELECT			SELECT
							SELECT			SELECT

\*please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA.

[Groundwater monitoring template](#)

More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31)

[Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites \(EPA 2013\)](#)

\*\*Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS). If the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS)

[Groundwater](#) [Drinking water](#)  
[Surface](#) [regulations](#) [\(private supply\)](#) [Drinking water \(public](#) [Interim Guideline](#)  
[water EQS](#) [GTV's](#) [standards](#) [supply\) standards](#) [Values \(IGV\)](#)

**Table 3: Soil results**

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit
							SELECT
							SELECT

Where additional detail is required please enter it here in 200 words or less

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<b>Environmental Liabilities template</b>	Lic No:	P0777-02	Year	2018
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[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

			Commentary
1	ELRA initial agreement status	Required but not submitted	Submitted but rejected by Agency in 2016. Assessments have been updated by external contractor and resubmitted via Eden.
2	ELRA review status	Review required and completed	Review completed in 2017
3	Amount of Financial Provision cover required as determined by the latest ELRA	€714,375	
4	Financial Provision for ELRA status	Required but not submitted	
5	Financial Provision for ELRA - amount of cover		
6	Financial Provision for ELRA - type	Other please specify	Insurance cover
7	Financial provision for ELRA expiry date	30/09/2019	Current insurance policy expiry date. Insurance cover will continue from 01/10/2019
8	Closure plan initial agreement status	Required but not submitted	Submitted but rejected by Agency in 2016. Assessments have been updated by external contractor and resubmitted via EDEN.
9	Closure plan review status	Review required and completed	2017
10	Financial Provision for Closure status	Required but not submitted	
11	Financial Provision for Closure - amount of cover	€2,583,683	
12	Financial Provision for Closure - type	Other please specify	Decommissioning
13	Financial provision for Closure expiry date	2037	

Environmental Management Programme/Continuous Improvement Programme template			Lic No:	P0777-02	Year	2018
Highlighted cells contain dropdown menu click to view			Additional Information			
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	The site has ISO14001:2015 accreditation and maintains an Environmental Management System			
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	The Register of Environmental Aspects is maintained and updated annually			
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes				
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes				

Environmental Management Programme (EMP) report					
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Additional improvements	In depth review / audit of air emissions monitoring to cover all aspects from instrumentation to reporting.	20	External contractor selected and review to carry into 2019	Section Head	Increased compliance with licence conditions
Additional improvements	Assessment of the Major Accident Scenarios for the site. This is to identify all potential major accident scenarios and assess the risk and consequences of these scenarios. Also to assess the potential effects both on and off the site and the adequacy of the prevention and mitigation measures in place on the site.	100	Assessment carried out and action items addressed	Section Head	Improved Environmental Management Practices
Additional improvements	Review the explosion protection document and associated hazard zones for the site to take account of the Major Accident Scenarios and assessment	100	Review complete and action items addressed	Section Head	Improved Environmental Management Practices
Materials Handling/Storage/Bunding	Testing of underground pipework	100	Testing completed of storm water network.	Section Head	Increased compliance with licence conditions
Materials Handling/Storage/Bunding	Complete a study on the risk of overtopping of the fuel oil bunds.	100	Review complete	Section Head	Improved Environmental Management Practices
Reduction of emissions to Water	Review treatment of aqueous waste on site and where possible modify existing practices to reduce quantities of aqueous waste tankered off site	100	Review complete and site practices updated	Section Head	Reduced emissions
Additional improvements	Investigate the source of ingress of rainwater into the contractors holding tank and put in place a plan to minimise the volume of water removed from site during outage periods	70	Investigation completed by civil engineer and some remedial work carried out. Further work required.	Section Head	Improved Environmental Management Practices

Noise monitoring summary report	Lic No:	P0777-02	Year	2018
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1 Was noise monitoring a licence requirement for the AER period?

Yes

If yes please fill in table N1 noise summary below

Noise  
Guidance  
note NG4

2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6?

Yes

3 Does your site have a noise reduction plan

No

4 When was the noise reduction plan last updated?

No

5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

No

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA <sub>eq</sub>	LA <sub>eq</sub>	LA <sub>eq</sub>	LA <sub>max</sub>	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site & extraneous noise ex. road traffic)	Is site compliant with noise limits (day/evening/night)?
09/10/2018	Day	NSL1	-	72.02	50.23	76.4	92.17	No	No	The dominant noise source during this measurement was observed to be road traffic along the Kishane Road and the nearby N2. Additional noise sources included birdsong. The Huntstown Power Station was not audible at this location during this time period.	Yes
09/10/2018	Even	NSL1	-	65.94	44.76	69.86	83.98	No	No	The dominant noise source during this measurement was observed to be road traffic along the Kishane Road and the nearby N2. Additional noise sources included birdsong and barking dogs. The Huntstown Power Station was not audible at this location during this time period.	Yes
09/10/2018	Night	NSL1	-	57.98	38.37	46.95	85.61	No	No	The dominant noise source during this measurement was observed to be road traffic along the Kishane Road and the nearby N2. Additional noise sources included birdsong and barking dogs. The Huntstown Power Station was not audible at this location during this time period.	Yes
09/10/2018	Day	NSL2	-	66.94	54.77	67.06	91.7	No	No	The dominant noise source during this measurement was observed to be road traffic along the R135 and the nearby N2. Additional noise sources included barking dogs and distant air traffic. The Huntstown Power Station was not audible during this time period.	Yes
09/10/2018	Even	NSL2	-	54.54	50	54.34	75.12	No	No	The dominant noise source during this measurement was observed to be road traffic along the R135 and the nearby N2. Additional noise sources included barking dogs and distant air traffic. The Huntstown Power Station was not audible during this time period.	Yes
09/10/2018	Night	NSL2	-	48.84	46.18	50.92	59.52	No	No	The dominant noise source during this measurement was observed to be road traffic along the R135 and the nearby N2. The Huntstown Power Station was audible as a low level hum.	Yes

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09/10/2018	Day	NSL3	-	70.75	57.46	73.62	94.21	No	No	The dominant noise source during this measurement was observed to be road traffic along the Kishane Road and the nearby N2. Additional noise sources included birdsong and air traffic directly overhead. The Huntstown Power Station was not audible at this location during this time period.	Yes
09/10/2018	Even	NSL3	-	64.15	53.03	65.48	87.19	No	No	The dominant noise source during this measurement was observed to be road traffic along the Kishane Road and the nearby N2. Additional noise sources included birdsong. The Huntstown Power Station was not audible at this location during this time period.	Yes
09/10/2018	Night	NSL3	-	55.89	41.97	57.63	78.27	No	No	The dominant noise source during this measurement was observed to be a low level hum from the Power Station, as well as some road traffic along the Kishane Road and the nearby N2.	Yes
09/10/2018	Day	NSL4	-	67.08	56.47	71.2	85.27	No	No	The dominant noise source during this measurement was observed to be road traffic along the R135 and the nearby N2. Additional noise sources included the nearby car repair shop as well as some distant air traffic. The Huntstown Power Station was audible as a low level hum.	Yes
09/10/2018	Even	NSL4	-	61.03	50.37	61.94	80.73	No	No	The dominant noise source during this measurement was observed to be road traffic along the R135 and the nearby N2. Additional noise sources included the nearby car repair shop as well as some distant air traffic. The Huntstown Power Station was audible as a low level hum.	Yes
09/10/2018	Night	NSL4	-	50.99	44.15	51.08	78.81	No	No	The dominant noise source during this measurement was observed to be road traffic along the R135 and the nearby N2. Additional noise sources included some barking dogs. The Huntstown Power Station was audible as a low level hum.	Yes

\*Please ensure that a formal analysis has been carried out as per guidance note NS4. These records must be maintained on-site for future inspection

If noise limits exceeded as a result of noise attributed to site activities, please choose the corrective action from the following options?

SELECT

N/A

\*\* please explain the reason for not taking action/resolution of noise issues?

Any additional comments? (less than 200 words)

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## Resource Usage/Energy efficiency summary

Lic No:

P0777-02

Year

2018

## Additional information

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
- Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information
- 2 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information
- 3

Enter date of audit	2008
No	
Yes	0.1

Table R1 Energy usage on site				
Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	27964.29	37328.88	33.49	2.73
Total Energy Generated (MWHrs)	855638.48	1365759.98	59.62	
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)				
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	246.30	0	-100	
Natural gas (m3)	167082674.65	262263813.6	56.9664923	
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

\* where consumption of energy can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

\*\* where site production information is available please enter percentage increase or decrease compared to previous year

Table R2 Water usage on site					Water Emissions	Water Consumption
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Volume Discharged back to environment(m <sup>3</sup> /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr
Groundwater	26524.55	33341.32	25.70			
Surface water						
Public supply	737.81	2652.31	259.48			
Recycled water						
Total	27262.36	35993.63	32.03		7929.09	

\* where consumption of water can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

\*\* where site production information is available please enter percentage increase or decrease compared to previous year

<b>Resource Usage/Energy efficiency summary</b>	Lic No:	P0777-02	Year	2018
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Table R3 Waste Stream Summary					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	11.79	0	0	6.53	5.26
Non-Hazardous (Tonnes)	45.48	0	0	14.85	30.62

Table R4: Energy Audit finding recommendations								
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
			SELECT					
			SELECT					
			SELECT					

Table R5: Power Generation: Where power is generated onsite (e.g. power generation facilities/food and drink industry) please complete the following information

	Unit ID	Unit ID	Unit ID	Unit ID	Station Total
Technology	CCGT				
Primary Fuel	Natural Gas				
Thermal Efficiency	55.70%				
Unit Date of Commission	01/10/2007				
Total Starts for year	63				
Total Running Time	5718				
Total Electricity Generated (GWH)	1365.759979				
House Load (GWH)	37.32887591				
KWH per Litre of Process Water	117.9940577				
KWH per Litre of Total Water used on	37.94448842				

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<b>Complaints and Incidents summary template</b>	Lic No:	P0777-02	Year	2018
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Complaints		Additional information
Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below		No

Table 1 Complaints summary							
Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Resolution date	Further information
	SELECT				SELECT		
Total complaints open at start of reporting year	0						
Total new complaints received during reporting year	0						
Total complaints closed during reporting year	0						
Balance of complaints end of reporting year	0						

Incidents		Additional information
Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below		No
*For information on how to report and what constitutes an incident	<a href="#">What is an incident</a>	

Table 2 Incidents summary														
Date of occurrence	Incident nature	Location of occurrence	Incident category*please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action<20 words	Preventative action <20 words	Resolution status	Resolution date	Likelihood of reoccurrence
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
Total number of incidents current year	0													
Total number of incidents previous year	0													
% reduction/increase	0													

WASTE SUMMARY		
Lic No:	P0777-02	Year: 2018
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES		PRTR facility login dropdown list click to see options

### SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES

Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ?; (waste generated within your boundaries is to be captured through PRTR reporting)

1 If yes please enter details in table 1 below

Additional Information	
No	Waste generated is listed on Environmental Performance Report

2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information

No	
N/A	

3 Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information

**Table 1 Details of waste accepted onto your site for recovery, disposal or treatment (do not include wastes generated at your site, as these will have been reported in your PRTR workbook)**

Licenced annual tonnage limit for your site (total tonnes/annum)	EWG code	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EWG code	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/ Increase over previous year +/- %	Reason for reduction/ increase from previous reporting year	Packaging Content (%) - only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -
	<a href="#">European Waste Catalogue EWG codes</a>		<a href="#">European Waste Catalogue EWG codes</a>								

### SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES

4 Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite

SELECT	
SELECT	

5 Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site

SELECT	
SELECT	
SELECT	

6 Does your facility have relevant nuisance controls in place?

7 Do you have an odour management system in place for your facility? If no why?

8 Do you maintain a sludge register on site?

<b>WASTE SUMMARY</b>	Lic No:	P0777-02	Year	2018
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**SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY**
**Table 2 Waste type and tonnage-landfill only**

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments

**Table 3 General information-Landfill only**

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
Cell 8													

**Table 4 Environmental monitoring-landfill only**
[Landfill Manual-Monitoring Standards](#)

Was meteorological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments

+ please refer to Landfill Manual linked above for relevant Landfill Directive monitoring standards

**Table 5 Capping-Landfill only**

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard m <sup>2</sup> ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					

\*please note this includes daily cover area

**Table 6 Leachate-Landfill only**

9 Is leachate from your site treated in a Waste Water Treatment Plant?

10 Is leachate released to surface water? If yes please complete leachate mass load information below

 SELECT  
SELECT

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments

Please ensure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTR returns

**Table 7 Landfill Gas-Landfill only**

Gas Captured&Treated by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
			SELECT	

Waste Summary Continued

Waste Management Record for waste transferred off site

Transferred Waste							
List of Waste (LoW)				Next Destination		Final Destination	
LoW Code	LoW Description	Classification	Quantity of waste Tonnes / year	Organisation	Waste Treatment Operation	Organisation	Waste Treatment Operation
20 03 04	septic tank sludge	-	4.5	McBreen Environmental	D08 - Biological treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12	-	
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01	-	26.12	McBreen Environmental	D08 - Biological treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12	-	
15 02 02*	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances	Hazardous	0.51	Rilta Environmental Limited - W0192	D15 - Storage pending any of the operations numbered D 1 to D 14 (excluding temporary storage, pending collection, on the site where the waste is produced)	Sistema Integrado de Tratamento e Eliminacao de Residuos AS (SISAV)	D09 - Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12 (e.g. evaporation, drying, calcination, etc.)
15 01 10*	packaging containing residues of or contaminated by hazardous substances	Hazardous	0.07	Rilta Environmental Limited - W0192	R05 - Recycling/reclamation of other inorganic materials	-	
15 01 10*	packaging containing residues of or contaminated by hazardous substances	Hazardous	0.07	Rilta Environmental Limited - W0192	R04 - Recycling/reclamation of metals and metal compounds	-	
06 13 02*	spent activated carbon (except 06 07 02)	Hazardous	2.39	Rilta Environmental Limited - W0192	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Recyfuel SA	R01 - Use principally as a fuel or other means to generate energy
12 01 09*	machining emulsions and solutions free of halogens	Hazardous	0.17	Rilta Environmental Limited - W0192	D15 - Storage pending any of the operations numbered D 1 to D 14 (excluding temporary storage, pending collection, on the site where the waste is produced)	Remondis SAVA GmbH	D10 - Incineration on land
16 05 06*	laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals	Hazardous	0.1	Rilta Environmental Limited - W0192	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Afvalstoffen Terminal Moergijk B. V. (ATM Moerdijk)	R01 - Use principally as a fuel or other means to generate energy
06 02 05*	other bases	Hazardous	0.1	Rilta Environmental Limited - W0192	D15 - Storage pending any of the operations numbered D 1 to D 14 (excluding temporary storage, pending collection, on the site where the waste is produced)	Sistema Integrado de Tratamento e Eliminacao de Residuos AS (SISAV)	D09 - Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12 (e.g. evaporation, drying, calcination, etc.)
16 10 01*	aqueous liquid wastes containing hazardous substances	Hazardous	5.09	Rilta Environmental Limited - W0192	D09 - Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12 (e.g. evaporation, drying, calcination, etc.)	-	
20 01 27*	paint, inks, adhesives and resins containing hazardous substances	Hazardous	2.24	Rilta Environmental Limited - W0192	D15 - Storage pending any of the operations numbered D 1 to D 14 (excluding temporary storage, pending collection, on the site where the waste is produced)	Sistema Integrado de Tratamento e Eliminacao de Residuos AS (SISAV)	D09 - Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12 (e.g. evaporation, drying, calcination, etc.)

13 02 08*	other engine, gear and lubricating oils	Hazardous	0.38	Rilta Environmental Limited - W0192	R09 - Oil re-refining or other reuses of oil	-	
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances	Hazardous	0.31	Rilta Environmental Limited - W0192	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Recyfuel SA	R01 - Use principally as a fuel or other means to generate energy
20 01 21*	Household waste fluorescent lamps and other mercury containing waste	Hazardous	0.02	Irish Lamp Recycling Co. Ltd	R04 - Recycling/reclamation of metals and metal compounds	-	
20 01 35* D	Household other waste electrical and electronic equipment, hazardous	Hazardous	0.33	Irish Lamp Recycling Co. Ltd	R04 - Recycling/reclamation of metals and metal compounds	-	
20 01 33*	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	Hazardous	0.02	Irish Lamp Recycling Co. Ltd	R04 - Recycling/reclamation of metals and metal compounds	-	
20 03 01 B	Municipal mixed residual non-household	-	7.27	Advanced Environmental Solutions (Ireland) Limited (Lusk) - W0222	R01 - Use principally as a fuel or other means to generate energy	-	
20 01 40 C	Mixed metals	-	2.43	Advanced Environmental Solutions (Ireland) Limited (Lusk) - W0222	R04 - Recycling/reclamation of metals and metal compounds	-	
20 01 38	wood other than that mentioned in 20 01 37	-	1.81	Advanced Environmental Solutions (Ireland) Limited (Lusk) - W0222	R01 - Use principally as a fuel or other means to generate energy	-	
15 01 07	glass packaging	-	0.0015	Advanced Environmental Solutions (Ireland) Limited (Lusk) - W0222	R01 - Use principally as a fuel or other means to generate energy	-	
15 01 01	paper and cardboard packaging	-	3.35	Advanced Environmental Solutions (Ireland) Limited (Lusk) - W0222	R05 - Recycling/reclamation of other inorganic materials	-	