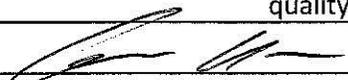


Facility Information Summary	
AER Reporting Year	2018
Licence Register Number	P0483-04
Name of site	Huntstown Power Station
Site Location	Huntstown, Finglas, Dublin 11
NACE Code	3511
Class/Classes of Activity	2.1 The Operation of Combustion Installation with a rated thermal
National Grid Reference (6E, 6 N)	-6.32518 53.4126
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.	<p>Huntstown Power Company 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 Eirgrid.</p> <p>Summary of 2018 Environmental Performance: The environmental performance at Huntstown Power Station remained good during 2018. The plant was certified to ISO14001:2015 accreditation for Environmental Management System. There were no complaints received during the year. The plant was dispatched to 15% lower levels of operation when compared to the previous year and reduction in CO, CO₂, NO_x and SO₂ can be attributed to the lower level of operation and the type of operation. Huntstown also reports CO₂ emissions annually as part of the Greenhouse Gas Permit.</p>

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.

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

AIR-summary template Lic No: P0483-04 Year 2018

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	
-----	--

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	
----	--

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	
-----	--

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
E1 & E2	Dust	BiAnnually	2mg/m3 gas firing and 10 mg/m3 oil firing	95% of hourly mean values of each year do not exceed 200% of ELV	8.145	mg/Nm3	yes	OTH	1091.69	Reported value based on stack analysis by accredited contractor during biannual visits
E1 & E2	volumetric flow	Continuous	2,250,000 m3 for gas firing or 2,100,000 m3 for oil firing	100 % of values < ELV	1344.145	Nm3/hour	yes	OTH	7528901	
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		

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

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AIR-summary template	Lic No: P0483-04	Year: 2018
Continuous Monitoring		

4 Does your site carry out continuous air emissions monitoring? 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)	Yes	
5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	Yes	
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	SELECT	

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
E1 & E2	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	342,219 kg	59.5mg/Nm3 (Gas Firing)	12.5	0	CEMS equipment fault reported in INCI015424
E1 & E2	Sulphur oxides (SOx/SO2)	80mg/m3 oil firing	hourly	Daily average < 110 % of ELV	mg/Nm3	13,217 kg	13 mg/Nm3	12.5	0	CEMS equipment fault reported in INCI015424
E1 & E2	volumetric flow	2,250,000m3 for Gas Firing or 2,100,000 for Oil Firing	hourly	100 % of values < ELV	m3	5,528,901 m3	1462.5	12.5	0	CEMS equipment fault reported in INCI015424
E1 & E2	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	1,100,644 kg	112.1	12.5	0	CEMS equipment fault reported in INCI015424
	SELECT				SELECT					

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

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: P0483-04 Year 2018

<p>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 <u>only</u> need to complete table W1 and or W2 for storm water analysis and visual inspections</p>	Additional information
Yes	
<p>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 <u>only</u> any evidence of contamination noted during visual inspections</p>	No evidence of contamination noted during 2018
Yes	

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
		N/A	SELECT		
			SELECT		

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

<p>3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below</p>	Additional information
No	
<p>4 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 require improvement in additional information box</p> <p>External/Internal Lab Quality checklist Assessment of results checklist</p>	Yes

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

Lic No: P0483-04

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 therof ^{Note 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
I-SE	Water	0	composite	3 Months	24 hour	7	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	First Quarter: 1 Second Quarter: 1 Third Quarter: 1 Fourth Quarter: 1	mg/L	yes	INSTRUMENTAL METHODS	APHA / AWWA "Standard Methods"		35.62	
I-SE	Water	COD	composite	3 Months	24 hour	50	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	First Quarter: 10 Second Quarter: 10 Third Quarter: 10 Fourth Quarter: 10	mg/L	yes	Hach Method 8000	US EPA		356.2	
I-SE	Water	Suspended Solids	composite	3 Months	24 hour	30	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	First Quarter: 11 Second Quarter: 2 Third Quarter: 21 Fourth Quarter: 2	mg/L	yes	Gravimetric analysis	APHA / AWWA "Standard Methods"		320.58	
I-SE	Water	Total Dissolved Solids	composite	3 Months	24 hour	2000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	First Quarter: 1908 Second Quarter: 1961 Third Quarter: 1348 Fourth Quarter: 1217	mg/L	yes	INSTRUMENTAL METHODS	APHA / AWWA "Standard Methods"		57295.3	
I-SE	Water	Ammonia (as N)	composite	3 Months	24 hour	3	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	First Quarter: 0.005 Second Quarter: 0.13 Third Quarter: 0.059 Fourth Quarter: 0.098	mg/L	yes	Konelab Analyser	HMSO (UK)		3.40	
I-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	First Quarter: 0.05 Second Quarter: 0.05 Third Quarter: 0.08 Fourth Quarter: 0.08	mg/L	yes	Photometric	EN ISO		2.32	
I-SE	Water	Mineral oils	composite	3 Months	24 hour	10	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	First Quarter: 0.0013 Second Quarter: 0.000013 Third Quarter: 0.00013 Fourth Quarter: 0.00026	mg/L	yes	GC-FID	US EPA	8015B	0.006	
I-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	First Quarter: 0.05 Second Quarter: 0.05 Third Quarter: 0.05 Fourth Quarter: 0.05	mg/L	yes	Spectrophotometry (Colorimetry)	Manufacturer method		1.87	
I-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	First Quarter: 0.105 Second Quarter: 0.149 Third Quarter: 0.621 Fourth Quarter: 0.962	mg/L	yes	Konelab Analyser	APHA / AWWA "Standard Methods"		16.36	
I-SE	Water	Total nitrogen	composite	3 Months	24 hour	5	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	First Quarter: 0.696 Second Quarter: 0.81 Third Quarter: 0.91 Fourth Quarter: 1.14	mg/L	yes	Konelab Analyser	APHA / AWWA "Standard Methods"		31.67	
I-SE	Water	volumetric flow		Continuous	1 hour	Max Flow Rate 8.3m3/hr. Max Discharge Per Day 200m3	No flow value shall exceed the specific limit.	35620.35	m3/year	yes	Flow Meter	Manufacturer method			5907 hours of operation. Average Flow Rate 6.03m3/hr
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT			

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

Continuous monitoring

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

Additional Information	
Yes	

If yes please summarise your continuous monitoring data below in Table W4 and compare it to

Did continuous monitoring equipment experience downtime? If yes please record downtime in

Yes	INCI014058 & INCI015318
-----	-------------------------

Do you have a proactive service contract for each piece of continuous monitoring equipment on

Yes	
-----	--

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

No	
----	--

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: P0483-04 Year 2018

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
I-SE	Water	pH	6-9	1 hour	No pH value shall deviate from the .specified range	pH units	Average Value: 7.72	-1.300%	13.5hrs	0	Downtime recorded in INCI014058 & INCI015318
I-SE	Water	Conductivity		1 hour	SELECT	µS/cm @20oC	Average Value: 1225.29	-9.75%	13.5hrs	0	No ELV. However discharge valve closes at 2000 µS/cm.
I-SE	Water	Temperature	25	1 hour	All values < ELV	degrees C	Average Value: 17.81	2.45%	13.5hrs	0	IPPC Licence issued in 2013 states ELV of 25°C
I-SE	Water	volumetric flow	8.3	1 hour	All values < ELV	m3/hour	Average Value: 6.03	14.83%	13.5hrs	0	

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

Table W5: Abatement system bypass reporting table

Date	Duration (hours)	Location	Resultant	Reason for	Corrective	Was a report	When was this report submitted?
						SELECT	

*Measures taken or proposed to reduce or limit bypass frequency

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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
- 2 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)
- 3 How many bunds are on site?
- 4 How many of these bunds have been tested within the required test schedule?
- 5 How many mobile bunds are on site?
- 6 Are the mobile bunds included in the bund test schedule?
- 7 How many of these mobile bunds have been tested within the required test schedule?
- 8 How many sumps on site are included in the integrity test schedule?
- 9 How many of these sumps are integrity tested within the test schedule?
- 10 **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	
62	total (including mobile)
23 due for testing in 2018	All tested within schedule
44	
Yes	
18 of the 44 were due for testing in	
22	2018
4	
0	0 due 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)
N/A	SELECT					SELECT			SELECT	SELECT		SELECT		
	SELECT					SELECT			SELECT	SELECT		SELECT		

* Capacity required should comply with 25% or 110% containment rule as detailed in your licence
 Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance? [bundings and storage guidelines](#)

- 15
- 16 Are channels/transfer systems to remote containment systems tested?
- 17 Are channels/transfer systems compliant in both integrity and available volume?

Yes	
No	
NA	

Pipeline/underground structure testing

- 1 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
 - 2 Please provide integrity testing frequency period
- *please note integrity testing means water tightness testing of all underground pipelines (as required under your licence)

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

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		Comments
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes
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 Groundwater monitoring template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below.	no
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

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

Sample values were low for the reporting year. Water only used for process water and not for drinking water purposes

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	0.083	0.074	mg/l	0.065-0.175	IGV	no

.+ where average indicates arithmetic mean

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

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
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	0.073	mg/l	0.065 - 0.175	IGV	no

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

Groundwater/Soil monitoring template

Lic No:

P0483-04

Year

2018

Table 3: Soil results

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

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

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Environmental Liabilities template	Lic No:	P0483-04	Year	2018
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[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

		Commentary
1	ELRA initial agreement status	Submitted and not agreed by EPA; 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 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	Closure plan submitted and not agreed by EPA 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 Review completed in
10	Financial Provision for Closure status	Required but not submitted
11	Financial Provision for Closure - amount of cover	€2,505,899
12	Financial Provision for Closure - type	Other please specify Decommissioning
13	Financial provision for Closure expiry date	2032

Environmental Management Programme/Continuous Improvement Programme template		Lic No:	P0483-04	Year	2018
Highlighted cells contain dropdown menu click to view		Additional Information			
1	Do you maintain an Environmental Management 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	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
SELECT		SELECT		SELECT	SELECT
SELECT		SELECT		SELECT	SELECT

Noise monitoring summary report Lic No: P0483-04 Year: 2018

- 1 Was noise monitoring a licence requirement for the AER period?
If yes please fill in table N1 noise summary below Yes
- 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
[Noise Guidance note NG4](#)
- 3 Does your site have a noise reduction plan No
- 4 When was the noise reduction plan last updated?
- 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 ₉₀	LA ₅₀	LA ₁₀	LA _{max}	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 Kilsbane 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 Kilsbane 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 Kilsbane 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 birding 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 birding. 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 total analysis has been carried out as per guidance note NS4. These records must be maintained onsite for future inspection

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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)

Resource Usage/Energy efficiency summary

Lic No:

P0483-04

Year

2018

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

Additional information

	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)	27347.05101	23953.3248	-12.40984341	1.95
Total Energy Generated (MWHrs)	1449777.97	1227058.292	-15.36233012	
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)				
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	20.32	0	-100	
Natural gas (m3)	286212394.9	239503802	-16.31955631	
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 ³ /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater	26524.5	33341.32	25.70				0
Surface water							
Public supply	1415.4	384.53	-72.83				
Recycled water							
Total	27939.9	33725.85	20.71		35620.35		

* 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

Table R3 Waste Stream Summary					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	11.79	0	0	6.53	45.76
Non-Hazardous (Tonnes)	55.36	0	0	14.86	

Resource Usage/Energy efficiency summary Lic No: P0483-04 Year 2018

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	0.54				
Unit Date of Commission	November 2002				
Total Starts for year	47				
Total Running Time	5761				
Total Electricity Generated (GWH)	1227.06				
House Load (GWH)	23.95				
KWH per Litre of Process Water	117.99				
KWH per Litre of Total Water used on	36.38				

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Complaints and Incidents summary template Lic No: P0483-04 Year 2018

Complaints	
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	Additional information 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	
Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below	Additional information 3 minor incidents, No non-conformance, No breach of licence conditions, No uncontrolled release Yes

*For information on how to report and what constitutes an incident [What is an incident](#)

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Complaints and Incidents summary template Lic No: P0483-04 Year 2018

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
12/03/2018	Other(Fault on sampling system)	Licensed discharge point (I-SE)	1. Minor	Water	Plant or equipment issues		Normal activities	EPA (INCI014058)	New	Fault on 24hr flow proportional composite sampling system prevented sample from being collected. OEM called to site and stanby time based sampling system set up. Continuous monitoring system not effected	OEM undertook full inspection of equipment.	Complete	12/03/2018	Low
11/10/2018	Other(Fault on sampling system)	Licensed discharge point (I-SE)	1. Minor	Water	Plant or equipment issues		Normal activities	EPA (INCI015318)	New	Fault on 24hr flow proportional composite sampling system prevented sample from being collected. Continuous monitoring system not effected. Portable sampler set up as a temporary measure. Manual grab samples tested prior to any discharge. No impact on environment.	Continue routine maintenance. OEM carried out full inspection of equipment and corrective actions addressed.	Complete	12/10/2018	Low
30/10/2018	Monitoring equipment offline	Licensed discharge point (type in reference here)	1. Minor	Air	Plant or equipment issues		Normal activities	EPA (INCI015424)	New	Fault on CEMS unit for air emissions monitoring. Maintenance carried out and unit returned to service. Qual 3 check carried out.	Continue preventative maintenance - scheduled maintenance monthly, quarterly, 6 monthly and annually already in place.	Complete	31/10/2018	Low
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
Total number of incidents current year														
Total number of incidents previous year														
% reduction/increase														

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WASTE SUMMARY	Lic No: P0483-04	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

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

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

Additional Information	
No	Waste transferred off site is listed on Environmental Performance Report and the Waste Management Record
No	
N/A	

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)

Licensed 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 -
	European Waste Catalogue EWG codes		European Waste Catalogue EWG codes								

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	

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	

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?

SELECT	
SELECT	
SELECT	

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													

WASTE SUMMARY Lic No: P0483-04 Year: 2018

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 ² 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?

SELECT

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

SELECT

Volume of leachate in reporting year(m ³)	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 LEG System m ³	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
			SELECT	

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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	-	28.5	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	-	
19 08 05	sludges from treatment of urban waste water	-	6	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	-	
20 03 06	waste from sewage cleaning	-	6	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 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 S.A.	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)	ATM Moerdijk	R01 - Use principally as a fuel or other means to generate energy
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 d Tratamento e Eliminacao de Residuos SA (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.)

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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 d Tratamento e Eliminacao de Residuos SA (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 d Tratamento e Eliminacao de Residuos SA (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 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 S.A.	R01 - Use principally as a fuel or other means to generate energy
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	-	
20 01 21*	Household waste fluorescent lamps and other mercury containing waste	Hazardous	0.02	Irish Lamp Recycling Limited	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 Limited	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 Limited	R04 - Recycling/reclamation of metals and metal compounds	-	
20 03 01 B	Municipal mixed residual non-household	-	7.27	Advanced Environmental Solutions (Ireland) Ltd AES	R01 - Use principally as a fuel or other means to generate energy	-	
20 01 40 C	Mixed metals	-	2.43	Advanced Environmental Solutions (Ireland) Ltd AES	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) Ltd AES	R01 - Use principally as a fuel or other means to generate energy	-	
15 01 07	glass packaging	-	0.0015	Advanced Environmental Solutions (Ireland) Ltd AES	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) Ltd AES	R05 - Recycling/reclamation of other inorganic materials	-	

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