

Facility Information Summary	
AER Reporting Year	2018
Licence Register Number	P0486-02
Name of site	Synergen Power Ltd
Site Location	Pigeon House Road, Dublin 4
NACE Code	3511
Class/Classes of Activity	2.1
National Grid Reference (6E, 6 N)	-6.20404 53.3397
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 <b>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.</b>	<p>ESB Dublin Bay operates one combined cycle gas turbine (CCGT) generating unit with a capacity of 415MW. The plant is fired on natural gas. Gas Oil is used as a standby fuel. The gas turbine can generate independently if needed, having a capacity of 270 MW. Sea-water abstracted from the river Liffey is used to cool part of the process. Production proceeded as normal in 2018. There were no infrastructural changes. Environmental performance was good, with one exceedence, which was due to a sampling error which introduced contamination. There was one non-conformance issued in 2018, relating to a loss of CEMS data. See INCI015505.</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.

David Brazil	
Signature	27/03/2019
Environmental Coordinator	

**AIR-summary template** Lic No: P0486-02 Year 2018

Answer all questions and complete all tables where relevant

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

	Additional information
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

SELECT	
--------	--

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](#)

SELECT	
--------	--

**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
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	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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<b>AIR-summary template</b>	Lic No: P0486-02	Year: 2018
<b>Continuous Monitoring</b>		

<p>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)</p>	Yes	
<p>5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below</p>	Yes	
<p>6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?</p>	Yes	
<p>7 Did your site experience any abatement system bypasses? If yes please detail them in table A3 below</p>	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
A2	volumetric flow	2,610,000 m3/hr	hour	Daily average < 110 % of ELV	Nm3/hour	1,835,000	2,480,000	121.24	0	There were three incidents: INCI013877 INCI014429 INCI015505
A2	Carbon monoxide (CO)	100mg/m3	hour	Daily average < 110 % of ELV	mg/Nm3	10.3	240		0	Plant was operating at less than 70% load, so ELV didn't apply.
A2	Nitrogen oxides (NOx/NO2)	65 mg/m3	hour	Daily average < 110 % of ELV	mg/Nm3	8.8	31		0	
A2	Sulphur oxides (SOx/SO2)	12 mg/m3	hour	Daily average < 110 % of ELV	mg/Nm3	0.4	10.3		0	
	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:

P0486-02

Year:

2018

## Additional information

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** licensed 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**

Yes	
Yes	

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licensed 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

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

[External/Internal Lab Quality checklist](#)

[Assessment of results checklist](#)

No	Additional information
No	One sample of water destined for Silica analysis was mistakenly taken in a glass bottle instead of a plastic one. This led to an apparent exceedance. Samples for Silica analysis will be taken in plastic bottles in future.
No	

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

Emission reference no:	Emission released to	Parameter/ Substance <sup>Note 1</sup>	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof <sup>Note 2</sup>	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
SW2	Water	volumetric flow	composite	quarterly	SELECT	100 m3/day	All results < 1.2 ELV	4.865	m3/day	yes	Calculated from differential pressures	Manufacturer method	n/a	n/a	Annual average of quarterly reports. Calculated from timed samples of known volume
SW2	Water	Ammonia (as N)	discrete	quarterly	30 minutes	1.5 mg/l	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.39	mg/L	yes	Colourimetric	Other (please specify)	SMEWW4500NH3F	0.66	Standard Methods for the examination of water and wastewater (SMEWW)
SW2	Water	Total phosphorus	discrete	quarterly	30 minutes	2 mg/l	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1.4125	mg/L	yes	Colourimetric	Other (please specify)	SMEWW4500PB	2.36	Standard Methods for the examination of water and wastewater (SMEWW)
SW2	Water	Sodium	discrete	quarterly	30 minutes	5 mg/l	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	3.5	mg/L	yes	Ion Chromatography	Other (please specify)	SMEWW 3111-B	5.93	Standard Methods for the examination of water and wastewater (SMEWW)
SW2	Water	Sulphate	discrete	quarterly	30 minutes	0.5 mg/l	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.2175	mg/L	yes	Ion Chromatography	Other (please specify)	SMEWW4500 SO4	0.36	Standard Methods for the examination of water and wastewater (SMEWW)

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)															
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SW2	Water	Silica	discrete	quarterly	30 minutes	0.5 mg/l	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.119	mg/L	yes	Spectrophotometric	Other (please specify)	SMEWW4500 SIO2 D	0.2	Standard Methods for the examination of water and wastewater (SMEWW). One Silica sample suffered contamination during sampling which led to an apparent exceedance
SW3	Water	pH	composite	quarterly	30 minutes	6 to 9	All values < ELV	8.2	pH units	yes	ISE (Ion Selective Electrode)	Other (please specify)	SMEWW 4500 H	n/a	Standard Methods for the examination of water and wastewater (SMEWW)
SW3	Water	Suspended Solids	composite	quarterly	24 hour	30 mg/l	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	24.5	mg/L	yes	Gravimetric analysis	Other (please specify)	SMEWW2540D	5.42	Standard Methods for the examination of water and wastewater (SMEWW)
SW3	Water	Total Dissolved Solids	composite	quarterly	24 hour	50000 mg/l	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	5237	mg/L	yes	Electrometry	Other (please specify)	SMEWW2510 Conductivi	5411	Standard Methods for the examination of water and wastewater (SMEWW)
SW3	Water	Ammonia (as N)	composite	quarterly	24 hour	10 mg/l	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.22	mg/L	yes	Colourimetric	Other (please specify)	SMEWW4500NH3F	0.18	Standard Methods for the examination of water and wastewater (SMEWW)
SW3	Water	BOD	composite	quarterly	24 hour	20 mg/l	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	2.25	mg/L	yes	DO Probe	Other (please specify)	SMEWW5210B	2.02	Standard Methods for the examination of water and wastewater (SMEWW)
SW3	Water	Mineral oils	composite	quarterly	24 hour	20 mg/l	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.056	mg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)	Other (please specify)	SMEWW6010C	0.08	Standard Methods for the examination of water and wastewater (SMEWW)

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

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**Continuous monitoring**  
 5 Does your site carry out continuous emissions to water/sewer monitoring? Additional information

Yes	
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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?

No	Service is scheduled by the Work Management System
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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
SW1	Water	volumetric flow	726,000 m3/day 743,424 kg/day	1 hour	All results < 1.2 x ELV	m3/day	602301	+7%	0	0	Operating hours in 2018 were 9.6% greater than in 2017.
SW1	Water	Temperature	Rise of 9.5 deg C	1 hour	All values < ELV	degrees C	4.91	-8%	0	0	The actual difference in the average temperature rise is 1.06 degrees.
SW1	Water	Thermal Load	250	1 hour	All values < ELV	MW	157.5	-9%	0	0	
SW1	Water	Chlorine	0.25 mg/l	1 hour	All results < 1.2 x ELV	mg/L	17534	-9%	0	0	Chlorine is dosed at various rates within the the ELV according to observations of fouling. This, along with differences in volumetric flow, leads to variances in total emissions.

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

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- Bund testing** dropdown menu click to see options
- 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 **bundling 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)
- 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)
  - How many bunds are on site?
  - How many of these bunds have been tested within the required test schedule?
  - How many mobile bunds are on site?
  - Are the mobile bunds included in the bund test schedule?
  - How many of these mobile bunds have been tested within the required test schedule?
  - How many sumps on site are included in the integrity test schedule?
  - How many of these sumps are integrity tested within the test schedule?
- Please list any sump integrity failures in table B1**
- Do all sumps and chambers have high level liquid alarms?
  - If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
  - Is the Fire Water Retention Pond included in your integrity test programme?

Additional information	
Yes	
3 years	
Yes	
17	Fixed structures
17	
39	Capable of being moved
Yes	
39	
7	
7	
Yes	
Yes	
N/A	There is no FW Retention pond

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		

\* 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 [bundling and storage guidelines](#)
- Are channels/transfer systems to remote containment systems tested?
- Are channels/transfer systems compliant in both integrity and available volume?

Commentary	
Yes	No new bunds or failures in 2018
No	not applicable
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**
- 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	

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)
SMH1A to SMH1	Storm	pvc	No	n/a	CCTV	Yes	Fail	open joint	repairs scheduled	Q2 2019	Due in 2019
SMH6 to G31	Storm	pvc	No	n/a	CCTV	Yes	Fail	open joint	repairs scheduled	Q2 2020	Due in 2019
SMH6 to G30	Storm	pvc	No	n/a	CCTV	Yes	Fail	open joint	repairs scheduled	Q2 2021	Due in 2019
SMH6 to SMH5 a	Storm	pvc	No	n/a	CCTV	Yes	Fail	deformation	repairs scheduled	Q2 2022	Due in 2019
SMH6 to SMH5 b	Storm	pvc	No	n/a	CCTV	Yes	Fail	deformation	repairs scheduled	Q2 2023	Due in 2019
SMH45 tee towards north	Storm	pvc	No	n/a	CCTV	Yes	Fail	redundant	repairs scheduled	Q2 2024	Due in 2019
SMH27 to SMH22A	Process	pvc	No	n/a	CCTV	Yes	Fail	partial blockage	repairs scheduled	Q2 2025	Due in 2019
SMH27 to SMH13	Storm	pvc	No	n/a	CCTV	Yes	Fail	partial blockage	repairs scheduled	Q2 2026	Due in 2019
SMH27 to upstream	Storm	pvc	No	n/a	CCTV	Yes	Fail	open joint	repairs scheduled	Q2 2027	Due in 2019
SMH45 to SMH8 a	Storm	pvc	No	n/a	CCTV	Yes	Fail	partial blockage	repairs scheduled	Q2 2028	Due in 2019
SMH15 to SMH16	Process	pvc	No	n/a	CCTV	Yes	Fail	open joint	repairs scheduled	Q2 2029	Due in 2019
SMH32 to SMH32A	Process	pvc	No	n/a	CCTV	Yes	Fail	open joint	repairs scheduled	Q2 2030	Due in 2019
SMH32 to SMH34	Storm	pvc	No	n/a	CCTV	Yes	Fail	open joint	repairs scheduled	Q2 2031	Due in 2019
SMH24	Process	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2032	Due in 2019
SMH25	Process	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2033	Due in 2019
SMH2	Process	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2034	Due in 2019
SMH3	Process	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2035	Due in 2019
SMH7	Process	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2036	Due in 2019
SMH9	Process	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2037	Due in 2019
SMH30	Process	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2038	Due in 2019
SMH20	Process	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2039	Due in 2019
SMH19	Process	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2040	Due in 2019
FMH5	Foul	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2041	Due in 2019
SMH17	Process	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2042	Due in 2019
SMH15	Process	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2043	Due in 2019
SMH21	Process	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2044	Due in 2019
FMH7	Foul	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2045	Due in 2019
FMH4	Foul	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2046	Due in 2019
FMH15	Foul	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2047	Due in 2019
FMH20	Foul	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2048	Due in 2019
FMH8	Foul	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2049	Due in 2019
East Surface Water Sump	Process	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2050	Due in 2019
WTP1	Process	concrete	No	n/a	hydrostatic	Yes	Fail	cracked concrete	repairs scheduled	Q2 2051	Due in 2019

The items which failed the initial CCTV inspection were not hydrostatically tested.

			Comments
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	no		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 interpretaion 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	no		
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. <a href="#">Groundwater monitoring template</a>	SELECT		Please enter interpretation of data here
5 Is the contamination related to operations at the facility (either current and/or historic)	SELECT		
6 Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	SELECT		
7 Please specify the proposed time frame for the remediation strategy	SELECT		
8 Is there a licence condition to carry out/update ELRA for the site?	yes		
9 Has any type of risk assesment been carried out for the site?	yes		
10 Has a Conceptual Site Model been developed for the site?	no		
11 Have potential receptors been identified on and off site?	yes		
12 Is there evidence that contamination is migrating offsite?	no		

**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
							SELECT			SELECT
							SELECT			SELECT

.+ 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
							SELECT			SELECT
							SELECT			SELECT

Groundwater/Soil monitoring template		Lic No:	P0486-02	Year	2018
<p>*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.</p>		<a href="#">Groundwater monitoring template</a>			
<p>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)</p>		<a href="#">Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013).</a>			
<p>**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)</p>		<a href="#">Surface water EQS</a>	<a href="#">Groundwater regulations</a>	<a href="#">Drinking water (private supply) standards</a>	<a href="#">Drinking water (public supply) standards</a>
			<a href="#">GTV's</a>	<a href="#">Interim Guideline Values (IGV)</a>	

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## Groundwater/Soil monitoring template

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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:	P0486-02	Year	2018
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[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

			Commentary
1	ELRA initial agreement status	Submitted and agreed by EPA	
2	ELRA review status	Review required and completed	
3	Amount of Financial Provision cover required as determined by the latest ELRA	€4,258,411	Agreed by ESB and EPA
4	Financial Provision for ELRA status	Submitted and agreed by EPA	
5	Financial Provision for ELRA - amount of cover	€4,258,411	
6	Financial Provision for ELRA - type	Parent Company Guarantee	
7	Financial provision for ELRA expiry date	Not applicable	
8	Closure plan initial agreement status	Closure plan submitted and agreed by EPA	
9	Closure plan review status	Review required and completed	
10	Financial Provision for Closure status	Submitted and agreed by EPA	
11	Financial Provision for Closure - amount of cover	€4,258,411	The Parent Company
12	Financial Provision for Closure - type	Parent Company Guarantee	
13	Financial provision for Closure expiry date	Not applicable	

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<b>Environmental Management Programme/Continuous Improvement Programme template</b>	Lic No: P0486-02	Year 2018
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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	
2 Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	
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
Waste reduction/Raw material usage efficiency	Ingrain sustainability into common practice.	90	Optimum efficiency was maintained on foot of adherence to scheduled maintenance plans. Environmental training requirements for Operations staff was kept up to date.	Section Head/Individual	Reduced emissions as a result of optimised efficiency and staff training.
Energy Efficiency/Utility conservation	Monitor the use of water to ensure that all reasonable measures are taken to reduce consumption	80	Boiler drain valves were checked according to schedule. Valves which contribute to water leaks continue to be replaced as they are identified.	Section Head	Reduced consumption of water. Improvement in thermal efficiency.
Waste reduction/Raw material usage efficiency	Improve the management and reporting of Waste Disposals	90	Improvements continue, with waste contractors providing more detailed reports and improved familiarity with occasional or one-off disposals.	Section Head	Improved Environmental Management Practices. Coordinated approach to the use of LoW codes.
Energy Efficiency/Utility conservation	Reduce losses in the compressed air system to a minimum	80	Opportunities for improvement to the compressed air system were implemented. There are some repairs remaining which can only be carried out when the plant is off load.	Section Head	Reduced emissions
Energy Efficiency/Utility conservation	Replace all faulty lights with the most energy-efficient available Continue into the future in a similar way	70	All lights which require maintenance are being replaced with the most energy-efficient alternative available. Due to the relative lack of accessibility, some lights will only be replaced on an as-needed basis.	Section Head	Reduced emissions

## Noise monitoring summary report

Lic No:

P0486-02

Year

2018

1 Was noise monitoring a licence requirement for the AER period?

Yes

If yes please fill in table N1 noise summary below

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?

[Guidance note NG4](#)

Yes

3 Does your site have a noise reduction plan

No

4 When was the noise reduction plan last updated?

Enter date

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>90</sub>	LA <sub>10</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)
30/08/2018	Day	-	NSL1	66.16	59.34	68.62	83.12	No		Dominant noise during this measurement included heavy road traffic along R131, mainly HGV's. Additional noise sources included machinery operating at Dublin port, audible during lulls in traffic. ESB Power Station was not audible during this measurement.	Yes
29/08/2018	Eve	-	NSL1	57.33	52.46	59.89	71.83	No		Dominant noise during this measurement included heavy road traffic along R131. Additional noise sources included occasional birdsong, machinery operating at Dublin port and impulsive metal banging audible from Dublin Port. ESB Power Station was not audible during this measurement.	Yes
30/08/2018	Night 1	-	NSL1	50.3	42.41	54.36	65.5	No		Dominant noise during this measurement included road traffic along R131. Additional noise sources included passing airplanes, machinery operating at Dublin port and impulsive metal banging audible from Dublin Port. A low level broadband hum from ESB Power Station/Dublin Port was audible during this measurement.	Yes
30/08/2018	Night 2	-	NSL1	50.58	42.5	53.98	66.81	No		Dominant noise during this measurement included road traffic along R131. Additional noise sources included passing airplanes, machinery operating at Dublin port and impulsive metal banging audible from Dublin Port. A low level broadband hum from ESB Power Station/Dublin Port was audible during this measurement.	Yes
29/08/2018	Day	-	NSL2	56.33	48.54	60.03	71.51	No		Dominant noise during this measurement included road traffic along R802 and cars moving within the estate. Additional noise sources included infrequent birdsong and people talking in the estate occasionally. ESB Power Station was not audible during this measurement.	Yes
29/08/2018	Eve	-	NSL2	58.04	48.52	61.79	72.49	No		Dominant noise during this measurement included road traffic along R802 and cars moving within the estate. Additional noise sources included infrequent birdsong and people talking in the estate occasionally. ESB Power Station was not audible during this measurement.	Yes
29/08/2018	Night 1	-	NSL2	54.74	35.84	59.31	71.46	No		Dominant noise during this measurement included road traffic along R802. Additional noise sources included a car passing in the estate. ESB Power Station was barely audible as a low level broadband hum during this measurement.	Yes
29/08/2018	Night 2	-	NSL2	53.46	34.41	56.79	69.95	No		Dominant noise during this measurement included road traffic along R802. Additional noise sources included a car passing in the estate and a passing airplane. ESB Power Station was barely audible as a low level broadband hum during this measurement.	Yes
30/08/2018	Night	N3		44.42	43.73	45	50.54	No		Low broadband hum from ESB Power Station was audible at this location. No tonal noise attributable to the Power Station was observed.	Yes

\*Please ensure that a tonal analysis has been carried out as per guidance note NG4. These records must be maintained onsite 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

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

The noise survey was conducted by our contractor, Allegro Acoustics, between 29/08/18 and 30/08/18. They concluded that the specific noise level from the Power Station at each measurement location remains below the day, evening and night time limits as outlined in the IEL.

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below  
[SEAI - Large](#)  
[Industry Energy](#)
- 2 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  
[Network \(LIEN\)](#)
- 3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

Additional information	
Enter date of audit	4th/5th July 2016
No	
Yes	

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)	47897.2	51634	+8%	+0%
Total Energy Generated (MWHrs)	2938279	3156455	+7%	
Total Renewable Energy Generated (MWHrs)	0	0		
Electricity Consumption (MWHrs)	5149947	5475843.533	+6%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	477.2	304.1	-36%	
Natural gas (m3)	531998500	563120500	+6%	
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	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	22106	26242	+19%	+11%	26242	0	0
Recycled water							
Total							

\* 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

Resource Usage/Energy efficiency summary		Lic No: P0486-02		Year 2018	
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	41.466	0	2.844	30.319	8.303
Non-Hazardous (Tonnes)	28.675	0	16.368	12.307	0

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**Resource Usage/Energy efficiency summary** Lic No: P0486-02 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	Gas Turbine				Gas Turbine
Primary Fuel	Natural Gas				Natural Gas
Thermal Efficiency	0.565				0.565
Unit Date of Commission	09/08/2002				37477
Total Starts for year	8				8
Total Running Time	8614.5				8614.5
Total Electricity Generated (GWH)	3156.455				3156.455
House Load (GWH)	51.634				51.634
KWH per Litre of Process Water	120.2825623				120.2825623
KWH per Litre of Total Water used on	120.2825623				120.2825623

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**Complaints and Incidents summary template** Lic No: P0486-02 Year 2018

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	Yes	COM007669

Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Resolution date	Further information
11/07/2018	Water		Foam in the MCW Outfall. Full details are available on the EDEN websites under complaint no. COM007669	None. General complaint about the estuary. Submitted a letter to EPA explaining the nature of our activities in general and at the time of the incident.	Complete	11/07/2019	
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
Total complaints open at start of reporting year		0					
Total new complaints received during reporting year		1					
Total complaints closed during reporting year		1					
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	Yes	

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

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 recurrence
13/02/2018	Monitoring equipment offline	Licensed discharge point (ty)	1. Minor	Air	Plant or equipment issues		Normal activities	EPA	New	IT issues	Windows upd	Complete	13/02/2018	Low
19/05/2018	Monitoring equipment offline	Licensed discharge point (ty)	1. Minor	Air	Plant or equipment issues		Normal activities	EPA	New	Air supply valve failed	Replaced valve	Complete	23/05/2018	Low
11/09/2018	Breach of ELV	Licensed discharge point (ty)	1. Minor	Water	Other (add details)	Sampling error	Normal activities	EPA	New	Re-sampled	Revised sampl	Complete	20/11/2019	Low
12/11/2018	Monitoring equipment offline	Licensed discharge point (ty)	1. Minor	Air	Plant or equipment issues		Normal activities	EPA	New	Replaced fuse	Spare fuse and	Complete	12/11/2018	Low
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
Total number of incidents current year														
														4
Total number of incidents previous year														3
% reduction/increase														33%

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<b>WASTE SUMMARY</b>	Lic No:	P0xxx-01	Year	2013
<b>SECTION A- WASTE MANAGEMENT RECORD FOR WASTE TRANSFERRED OFF SITE</b>		P0486-02	Year	2018

Please insert details of waste transferred off site in the adjoining Waste Management Record tab.

**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)

No	Additional Information
----	------------------------

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

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)**

Licensed annual tonnage limit for your site (total tonnes/annum)	EWC code	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EWC 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 EWC codes</a>		<a href="#">European Waste Catalogue EWC 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?

**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](#)

**WASTE SUMMARY** Lic No: P0xxx-01 Year: 2013

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 SS3(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 m2 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(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
---------------------------------------	----------------------------	----------------------------------	---	----------

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Non-Hazardous Waste

Date	Transfer/Description	European Waste	Haz/Non-Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment	WTF No.	TPS No.	LN No.	Ticket No.	Method Used	Location of Treatment	Haz Waste Name and Licence/Permit No. of Receiving Facility	Receiving Facility Address	Name and Licence/Permit No. of Transferor or Recipient	Actual Address of Final Destination	Collection Permit No.
10/01/2018	AE Lusk W022-01	200301	Non Hazardous	0.52	Commercial Mixed	R1	NA	NA	NA	JTL084803	Recovery	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
17/01/2018	AE Lusk W022-01	200301	Non Hazardous	0.03	Commercial Mixed	R1	NA	NA	NA	RTLU210972	Recovery	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
31/01/2018	AE Lusk W022-01	200301	Non Hazardous	0.12	Commercial Mixed	R1	NA	NA	NA	RTLU214925	Recovery	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
12/01/2018	AE Lusk W022-04	200301	Non Hazardous	0.12	Commercial Mixed	R1	NA	NA	NA	RTLU208875	Recovery	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
25/01/2018	AE Lusk W022-01	150103	Non Hazardous	0.38	Wooden packaging	R1	NA	NA	NA	JTL085970	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
03/01/2018	AE Lusk W022-01	200108	Non Hazardous	0.02	Commercial	R3	NA	NA	NA	RTLU219765	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
17/01/2018	AE Lusk W022-01	200108	Non Hazardous	0.02	Commercial	R3	NA	NA	NA	RTLU211593	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
24/01/2018	AE Lusk W022-01	200108	Non Hazardous	0.02	Commercial	R3	NA	NA	NA	RTLU213487	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
04/01/2018	AE Lusk W022-01	200140	Non Hazardous	1.24	Municipal Metals	R4	NA	NA	NA	JTL084224	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
14/02/2018	AE Lusk W022-01	200301	Non Hazardous	0.07	Commercial Mixed	R1	NA	NA	NA	RTLU218044	Recovery	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
28/02/2018	AE Lusk W022-01	200301	Non Hazardous	0.12	Commercial Mixed	R1	NA	NA	NA	RTLU221476	Recovery	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
02/02/2018	AE Lusk W022-01	200301	Non Hazardous	0.08	Commercial Mixed	R1	NA	NA	NA	RTLU216764	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
16/02/2018	AE Lusk W022-01	200301	Non Hazardous	0.05	Commercial Mixed	R5	NA	NA	NA	RTLU219194	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
23/02/2018	AE Lusk W022-01	200301	Non Hazardous	0.02	Commercial Mixed	R5	NA	NA	NA	RTLU217865	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
07/02/2018	AE Lusk W022-01	200108	Non Hazardous	0.03	Commercial	R3	NA	NA	NA	RTLU217178	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
14/02/2018	AE Lusk W022-01	200108	Non Hazardous	0.02	Commercial	R3	NA	NA	NA	RTLU218778	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
21/02/2018	AE Lusk W022-01	200108	Non Hazardous	0.01	Commercial	R3	NA	NA	NA	RTLU220857	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
28/02/2018	AE Lusk W022-01	200108	Non Hazardous	0.01	Commercial	R3	NA	NA	NA	RTLU221506	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
06/03/2018	AE Lusk W022-01	200301	Non Hazardous	1.34	Commercial Mixed	R1	NA	NA	NA	JTL089124	Recovery	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
14/03/2018	AE Lusk W022-01	200301	Non Hazardous	0.05	Commercial Mixed	R1	NA	NA	NA	RTLU225246	Recovery	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
28/03/2018	AE Lusk W022-01	200301	Non Hazardous	0.04	Commercial Mixed	R1	NA	NA	NA	JTL089373	Recovery	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
27/03/2018	AE Lusk W022-23	200301	Non Hazardous	0.54	Commercial Mixed	R1	NA	NA	NA	JTL091144	Recovery	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
06/03/2018	AE Lusk W022-24	200301	Non Hazardous	0.03	Commercial Mixed	R5	NA	NA	NA	RTLU222542	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
06/03/2018	AE Lusk W022-25	200301	Non Hazardous	0.07	Commercial Mixed	R5	NA	NA	NA	RTLU225961	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
16/03/2018	AE Lusk W022-26	200301	Non Hazardous	0.04	Commercial Mixed	R5	NA	NA	NA	RTLU227060	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
30/03/2018	AE Lusk W022-27	200301	Non Hazardous	0.06	Commercial Mixed	R5	NA	NA	NA	RTLU229748	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
14/03/2018	AE Lusk W022-28	200108	Non Hazardous	0.02	Commercial biodegradable kitchen and garden waste	R3	NA	NA	NA	RTLU226163	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
20/03/2018	AE Lusk W022-29	200108	Non Hazardous	0.01	Commercial biodegradable kitchen and garden waste	R3	NA	NA	NA	RTLU228452	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
28/03/2018	AE Lusk W022-30	200108	Non Hazardous	0.02	Commercial	R3	NA	NA	NA	RTLU229604	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
25/04/2018	AE Lusk W022-31	200301	Non Hazardous	0.08	Commercial Mixed	R1	NA	NA	NA	RTLU235207	Recovery	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
30/04/2018	AE Lusk W022-32	200301	Non Hazardous	1.64	Commercial Mixed	R1	NA	NA	NA	JTL094465	Recovery	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
13/04/2018	AE Lusk W022-33	200301	Non Hazardous	0.07	Commercial Mixed	R5	NA	NA	NA	RTLU221679	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
26/04/2018	AE Lusk W022-34	150103	Non Hazardous	0.38	Wooden packaging	R5	NA	NA	NA	JTL094200	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
27/04/2018	AE Lusk W022-35	200301	Non Hazardous	0.04	Commercial Mixed	R5	NA	NA	NA	RTLU233459	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
04/04/2018	AE Lusk W022-36	200108	Non Hazardous	0.01	Commercial	R3	NA	NA	NA	RTLU230896	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
11/04/2018	AE Lusk W022-37	200108	Non Hazardous	0.02	Commercial	R3	NA	NA	NA	RTLU231553	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
25/04/2018	AE Lusk W022-38	200108	Non Hazardous	0.07	Commercial	R3	NA	NA	NA	RTLU235237	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
11/04/2018	AE Lusk W022-39	200140	Non Hazardous	1.48	Municipal Metals	R4	NA	NA	NA	JTL092554	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
09/05/2018	AE Lusk W022-40	200301	Non Hazardous	0.04	Commercial Mixed	R1	NA	NA	NA	RTLU241890	Recovery	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
09/05/2018	AE Lusk W022-41	200301	Non Hazardous	0.08	Commercial Mixed	R1	NA	NA	NA	RTLU239295	Recovery	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
15/05/2018	AE Lusk W022-42	200301	Non Hazardous	0.50	Commercial Mixed	R5	NA	NA	NA	JTL096100	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
23/05/2018	AE Lusk W022-43	200301	Non Hazardous	0.01	Commercial Mixed	R1	NA	NA	NA	RTLU242496	Recovery	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
29/05/2018	AE Lusk W022-44	200301	Non Hazardous	1.18	Commercial Mixed	R1	NA	NA	NA	JTL097756	Recovery	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
11/05/2018	AE Lusk W022-45	200301	Non Hazardous	0.03	Commercial Mixed	R5	NA	NA	NA	RTLU240340	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
25/05/2018	AE Lusk W022-46	200301	Non Hazardous	0.30	Commercial Mixed	R5	NA	NA	NA	RTLU243054	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
09/05/2018	AE Lusk W022-47	200108	Non Hazardous	0.02	Commercial	R3	NA	NA	NA	RTLU240218	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
09/05/2018	AE Lusk W022-48	200108	Non Hazardous	0.02	Commercial biodegradable kitchen and garden waste	R3	NA	NA	NA	RTLU240218	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
21/05/2018	AE Lusk W022-49	200108	Non Hazardous	0.04	Commercial	R4	NA	NA	NA	RTLU243245	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
30/05/2018	AE Lusk W022-50	200108	Non Hazardous	0.05	Commercial	R1	NA	NA	NA	RTLU245364	Recovery	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
16/05/2018	AE Lusk W022-51	200136	Non Hazardous	1.02	Discarded electrical	R1	NA	NA	NA	JTL096411	Recovery	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
06/06/2018	AE Lusk W022-52	200301	Non Hazardous	0.09	Commercial Mixed	R1	NA	NA	NA	RTLU246256	Recovery	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
07/06/2018	AE Lusk W022-53	200301	Non Hazardous	0.52	Commercial Mixed	R1	NA	NA	NA	JTL098682	Recovery	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
28/06/2018	AE Lusk W022-54	200301	Non Hazardous	0.02	Commercial Mixed	R1	NA	NA	NA	RTLU249137	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
08/06/2018	AE Lusk W022-55	200301	Non Hazardous	0.03	Commercial Mixed	R5	NA	NA	NA	RTLU247014	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
15/06/2018	AE Lusk W022-56	200301	Non Hazardous	0.02	Commercial Mixed	R5	NA	NA	NA	RTLU248420	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
18/06/2018	AE Lusk W022-57	150103	Non Hazardous	0.41	Wooden packaging	R5	NA	NA	NA	JTL099982	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
22/06/2018	AE Lusk W022-58	200301	Non Hazardous	0.03	Commercial Mixed	R5	NA	NA	NA	RTLU249910	RECYCLING	IRELAND	AE Lusk w022-01	KILEEN ROAD,			NWPCO-08-1061-06
29/06/2018	AE Lusk W022-59	200301	Non Hazardous	0.02	Commercial Mixed	R3	NA	NA	NA	RTLU250681	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
13/06/2018	AE Lusk W022-60	200108	Non Hazardous	0.03	Commercial	R3	NA	NA	NA	RTLU248289	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
27/06/2018	AE Lusk W022-61	200108	Non Hazardous	0.05	Commercial	R3	NA	NA	NA	RTLU250465	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
15/06/2018	AE Lusk W022-62	200140	Non Hazardous	0.46	Municipal Metals	R4	NA	NA	NA	JTL929519	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
02/07/2018	AE Lusk W022-63	200301	Non Hazardous	0.52	Commercial Mixed	R1	NA	NA	NA	JTL0101481	RECYCLING	IRELAND	AE Lusk w022-01	AE LUSK			NWPCO-08-1061-06
04/07/2018	AE Lusk W022-64	200301	Non Hazardous	0.05	Commercial Mixed	R1	NA	NA	NA	RTLU251832	RECYCLING	IRELAND	AE Lusk w022-01				

16/11/2018	AES Lusk W0222-68	200301	Non Hazardous	0.025	Commercial Mixed Recyclable Waste	R5	NA	NA	NA	RTLU283459	RECYCLING	IRELAND	AES Lusk w0222-01	KILEEN ROAD,	NWPCO-08-10601-06
23/11/2018	AES Lusk W0222-68	200301	Non Hazardous	0.033	Commercial Mixed Recyclable Waste	R5	NA	NA	NA	RTLU285279	RECYCLING	IRELAND	AES Lusk w0222-01	KILEEN ROAD,	NWPCO-08-10601-06
30/11/2018	AES Lusk W0222-68	200301	Non Hazardous	0.037	Commercial Mixed Recyclable Waste	R5	NA	NA	NA	RTLU286836	RECYCLING	IRELAND	AES Lusk w0222-01	KILEEN ROAD,	NWPCO-08-10601-06
14/11/2018	AES Lusk W0222-68	200108	Non Hazardous	0.034	Commercial biodegradable kitchen and restaurant waste	R3	NA	NA	NA	RTLU283781	RECYCLING	IRELAND	AES Lusk w0222-01	KILEEN ROAD,	NWPCO-08-10601-06
28/11/2018	AES Lusk W0222-68	200108	Non Hazardous	0.033	Commercial biodegradable kitchen and restaurant waste	R3	NA	NA	NA	RTLU287553	RECYCLING	IRELAND	AES Lusk w0222-01	KILEEN ROAD,	NWPCO-08-10601-06
05/12/2018	AES Lusk W0222-68	200301	Non Hazardous	0.03	Commercial Mixed Recyclable Waste	R1	NA	NA	NA	RTLU288545	RECOVERY	IRELAND	AES Lusk w0222-01	KILEEN ROAD,	NWPCO-08-10601-06
13/12/2018	AES Lusk W0222-68	190905	Non Hazardous	2.28	Spent resin from Ion Exchange	R12	NA	NA	NA	JTLU116961	RECOVERY	IRELAND	AES Lusk w0222-01	KILEEN ROAD,	NWPCO-08-10601-06
13/12/2018	AES Lusk W0222-68	190905	Non Hazardous	1.26	Spent resin from Ion Exchange	R12	NA	NA	NA	JTLU116962	RECOVERY	IRELAND	AES Lusk w0222-01	KILEEN ROAD,	NWPCO-08-10601-06
19/12/2018	AES Lusk W0222-68	200301	Non Hazardous	0.08	Commercial Mixed Recyclable Waste	R1	NA	NA	NA	RTLU291838	RECOVERY	IRELAND	AES Lusk w0222-01	AES LUSK	NWPCO-08-10601-06
07/12/2018	AES Lusk W0222-68	200301	Non Hazardous	0.03	Commercial Mixed Recyclable Waste	R5	NA	NA	NA	RTLU288976	RECYCLING	IRELAND	AES Lusk w0222-01	AES LUSK	NWPCO-08-10601-06
08/12/2018	AES Lusk W0222-68	151003	Non Hazardous	1.28	Wooden packaging	R3	NA	NA	NA	JTLU116526	RECYCLING	IRELAND	AES Lusk w0222-01	AES LUSK	NWPCO-08-10601-06
14/12/2018	AES Lusk W0222-68	200301	Non Hazardous	0.087	Commercial Mixed Recyclable Waste	R3	NA	NA	NA	RTLU290705	RECYCLING	IRELAND	AES Lusk w0222-01	AES LUSK	NWPCO-08-10601-06
21/12/2018	AES Lusk W0222-68	200301	Non Hazardous	0.033	Commercial Mixed Recyclable Waste	R4	NA	NA	NA	RTLU292347	RECYCLING	IRELAND	AES Lusk w0222-01	AES LUSK	NWPCO-08-10601-06
28/12/2018	AES Lusk W0222-68	200301	Non Hazardous	0.03	Commercial Mixed Recyclable Waste	R5	NA	NA	NA	RTLU294234	RECYCLING	IRELAND	AES Lusk w0222-01	AES LUSK	NWPCO-08-10601-06
12/12/2018	AES Lusk W0222-68	200108	Non Hazardous	0.03	Commercial biodegradable kitchen and restaurant waste	R3	NA	NA	NA	RTLU291018	RECYCLING	IRELAND	AES Lusk w0222-01	AES LUSK	NWPCO-08-10601-06
31/12/2018	AES Lusk W0222-68	200108	Non Hazardous	0.04	Commercial Mixed Recyclable Waste	R3	NA	NA	NA	RTLU296383	RECYCLING	IRELAND	AES Lusk w0222-01	AES LUSK	NWPCO-08-10601-06
11/12/2018	AES Lusk W0222-68	170407	Non Hazardous	1.05	Mixed C&D Metals	R4	NA	NA	NA	JTLU116702	RECYCLING	IRELAND	AES Lusk w0222-01	AES LUSK	NWPCO-08-10601-06

Date	Docket No.	WTP No	Description of Waste	Haz/Non Hazardous	EWCC Code	Quantity (weight / volume)	Waste Treatment Operation	Method Used	Name of Recycler/Disposer/Broker	Address of Recycler/Disposer/Broker	Waste Licence/Permit No. of Recycler/Disposer/Broker	Collection Permit No.	Name and Address of Final Destination, i.e. Final recovery/disposal site (Haz waste only)	License/Permit No. of Final Destination i.e. Final recovery/disposal site (Haz waste only)	Cert. of Disposal Number	Cert. of Disposal Received
03.01.2018	2185696		Waste oil collection	Hazardous	13.02.08*	2000	R9	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-01	ENVA Ireland Ltd	W0184.2	2185696	yes
24.04.2018	2187158		Waste oil collection	Hazardous	13.02.08*	1900	R9	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-02	ENVA Ireland Ltd	W0184.2	2187158	yes
26.04.2018	2187309		Waste oil collection	Hazardous	13.02.08*	3000	R9	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-03	ENVA Ireland Ltd	W0184.2	2187309	yes
30.04.2018	3204452		Collection of Solid City Waste	Hazardous	16.06.02*	670	R6	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-04	Campine, Belgium	MLAV/05-173/0V0A	3204452	yes
30.04.2018	3204452		Collection of Solid City Waste	Hazardous	15.02.02*	154	R1	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-02	Lindenschmidt, Germany	E97095037	3204452	yes
30.04.2018	3204452		Collection of Filters	Hazardous	16.01.07*	148	R4	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-02	RD Recycling Belgium	517271/RD	3204452	yes
02.05.2018	2187385		Waste oil collection	Hazardous	13.02.08*	979	R9	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-02	ENVA Ireland Ltd	W0184.2	2187385	yes
13.06.2018	550500		Waste Ceramic Fibre	Hazardous	15.02.03*	85	R1	Recycling	ENVA Ireland Ltd	Industrial Estate, Shannock	W0041.01	WCPD-DC-08-1116-01	ENVA Ireland Ltd	W0041.01	550500	yes
03-Jul-18	2188256		Waste oil collection	Hazardous	13.02.08*	2160	R9	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-02	ENVA Ireland Ltd	W0184.2	2188256	yes
08-Jul-18	4115446		Waste removed to Eng P/L	Hazardous	13.08.02*	1500	R9	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-02	ENVA Ireland Ltd	W0184.2	4115446	yes
04-Sep-18	3207481		Collection of Fire Fighting Foam (11000)	Hazardous	16.05.06*	260	R1	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-02	Lindenschmidt, Germany	E97095037	3207481	yes
04-Sep-18	3207481		BC of waste oil	Hazardous	13.02.08*	300	R9	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-03	ENVA Ireland Ltd	W0184.2	3207481	yes
04-Sep-18	3207481		Waste oil	Hazardous	13.02.08*	140	R9	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-02	ENVA Ireland Ltd	W0184.2	3207481	yes
12-Sep-18	2189352		Waste Oil	Hazardous	13.02.08*	3185	R9	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-02	ENVA Ireland Ltd	W0184.2	2189352	yes
17-Sep-18	3207838		Collection of Fluorescent Tubes	Hazardous	20.01.21*	20	R4	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-03	Irish Lamp Recycling, Athy	WFP KE 08-0348-01	3207838	yes
18-Sep-18	3207972		Collection of Fluorescent Tubes	Hazardous	20.01.21*	60	R4	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-03	Irish Lamp Recycling, Athy	WFP KE 08-0348-01	3207972	yes
21-Sep-18	2189509		Collection of Transformer Oil	Hazardous	13.03.07*	3366	R9	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-02	ENVA Ireland Ltd	W0184.2	2189509	yes
25-Oct-18	4116041		Sodium Hydroxide	Hazardous	06.02.04*	2940	D9	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-02	Lindenschmidt, Germany	E97095037	4116041	yes
02-Oct-18	2189637		Collection of Transformer Oil	Hazardous	13.03.07*	2444	R9	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-02	ENVA Ireland Ltd	W0184.2	2189637	yes
05-Nov-18	2190171		Collection of Transformer Oil	Hazardous	13.03.07*	3185	R9	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-03	ENVA Ireland Ltd	W0184.2	2190171	yes
14-Nov-18	2190360		Collection of Transformer Oil	Hazardous	13.03.07*	1881	R9	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-04	ENVA Ireland Ltd	W0184.2	2190360	yes
04/12/2018	2190527		Collection of Transformer Oil	Hazardous	13.03.07*	1881	R9	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.2	WCP-DC-08-1116-04	ENVA Ireland Ltd	W0184.2	2190527	yes
17/12/2018	4116328		Fyreswash	Hazardous	16.05.08*	2260	R1	Recycling	ENVA Ireland Ltd	Glinnamin Ind Estate, Portlaoise, Co Laois	W0184.01	WCP-DC-08-1116-01	Lindenschmidt, Germany	E97095037	4116328	yes
27/07/2018	0004115536	27/07/2018	Drainage	Hazardous	13.08.02*	1500	R13	Recycling	ENVA Ireland Ltd	Industrial Estate, Shannock	W0184.02	WCP-DC-08-1116-02	ENVA Ireland Ltd	W0184.2	0004115536	yes
13/06/2018	550500		Waste Water	Hazardous	15.02.03*	85	R1	Recycling	ENVA Ireland Ltd	Industrial Estate, Shannock	W0041.01	WCPD-DC-08-1116-01	Lindenschmidt, Germany	E97095037	550500	yes
25/10/2018	551414		Waste Water	Hazardous	06.02.04*	2940	D9	Chemical	ENVA Ireland Ltd	Industrial Estate, Shannock	W0041.01	WCPD-DC-08-1116-01	Lindenschmidt, Germany	E97095038	551414	yes
17/12/2018	551704		Waste Water	Hazardous	16.05.08*	2423	D9	Chemical	ENVA Ireland Ltd	Industrial Estate, Shannock	W0041.01	WCPD-DC-08-1116-01	Lindenschmidt, Germany	E97095039	551704	yes