


Facility Information Summary	
AER Reporting Year	2019
Licence Register Number	PO694-01
Name of site	Rhode Generating Station
Site Location	Coolcor, Rhode, Co. Offaly.
NACE Code	3511
Class/Classes of Activity	Production and supply of electricity
National Grid Reference (6E, 6 N)	121266 E, 372497 N
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>The Rhode PCP is located in County Offaly, approximately 1 mile north of Rhode village on the eastern edge of the Derragreenagh bog. The surrounding catchment area is the Yellow River. It uses gasoil as fuel for electricity generation. There are two electricity generating units, each having a capacity of 52 MW. The plant has a total generating capacity of 104 MW. Each generator is driven by two gas turbine engines, manufactured by Pratt and Whitney. Demineralised water injection is used for NOx suppression. This equipment is suitable for peaking capacity supply to the electricity grid as it starts very quickly and can produce 104 MW of electricity in about eight minutes (full load mode). Fuel consumption will depend on the actual number of run hours during the period of deployment. The operating hours have increased slightly with 196 operating hours in 2019 compared to 180 in 2018. This has led to a slight increase in emissions from the site when compared to last years reported emissions. With regards to compliance with the sites licence, there was no non-compliances with ELVs to air or water. There was one incident onsite in relation to water injection abatement system malfunction. Corrective and preventative actions were put in place for this incident.</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.

	06/03/2020
Signature	Date
Environmental Co-ordinator	
(or nominated, suitably qualified and experienced deputy)	

AIR-summary template	Lic No: P0694-01	Year: 2019
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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 <u>do not</u> 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	No	
	Yes	

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](#)

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
A1	Nitrogen oxides (NOx/NO2)	Annually	120	No 30min mean can exceed the ELV	115.60	mg/Nm3	yes	EN 14792:2005	2300	
A1	volumetric flow	Annually	314,500	All 1-hour averages < ELV	275,526	Nm3/hour	yes	EN 1911-1 to 3:2003		
A2	Nitrogen oxides (NOx/NO2)	Annually	120	No 30min mean can exceed the ELV	106.10	mg/Nm3	yes	EN 14792:2005	3290	
A2	volumetric flow	Annually	314,500	All 1-hour averages < ELV	239,247	Nm3/hour	yes	EN 1911-1 to 3:2003		
A3	Nitrogen oxides (NOx/NO2)	Annually	120	No 30min mean can exceed the ELV	112.80	mg/Nm3	yes	EN 14792:2005	1628	
A3	volumetric flow	Annually	314,500	All 1-hour averages < ELV	276,583	Nm3/hour	yes	EN 1911-1 to 3:2003		
A4	Nitrogen oxides (NOx/NO2)	Annually	120	No 30min mean can exceed the ELV	114.80	mg/Nm3	yes	EN 14792:2005	2374	
A4	volumetric flow	Annually	314,500	All 1-hour averages < ELV	254,888	Nm3/hour	yes	EN 1911-1 to 3:2003		

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

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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)	<input type="text"/>	
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	SELECT	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	SELECT	
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
	SELECT			SELECT	SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	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

Solvent use and management on site

8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5

No

Table A4: Solvent Management Plan Summary		Solvent regulations		Please refer to linked solvent regulations to complete table 5 and 6	
Total VOC Emission limit value					
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision thereof	Compliance
					SELECT
					SELECT

Table A5: Solvent Mass Balance summary								
	(I) Inputs (kg)	(O) Outputs (kg)						
Solvent	(I) Inputs (kg)	Organic solvent emission in waste	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g.	Solvents destroyed onsite	Total emission of Solvent to air (kg)
							Total	

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 licenced emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections
2	Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections

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	No	Additional information
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	Yes	Additional information

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

Emission reference no:	Emission released to	Parameter/ Substance ^{Note 1}	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof ^{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
S2	Water	pH	discrete	Monthly	Monthly	8.9	No pH value shall deviate from the specified range.	7.5	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Jan
S2	Water	pH	discrete	Monthly	Monthly	8.9	No pH value shall deviate from the specified range.	7.3	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Feb
S2	Water	pH	discrete	Monthly	Monthly	8.9	No pH value shall deviate from the specified range.	7.6	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Mar
S2	Water	pH	discrete	Monthly	Monthly	8.9	No pH value shall deviate from the specified range.	7.4	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Apr
S2	Water	pH	discrete	Monthly	Monthly	8.9	No pH value shall deviate from the specified range.	7.5	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			May
S2	Water	pH	discrete	Monthly	Monthly	8.9	No pH value shall deviate from the specified range.	7.9	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Jun
S2	Water	pH	discrete	Monthly	Monthly	8.9	No pH value shall deviate from the specified range.	7.4	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Jul
S2	Water	pH	discrete	Monthly	Monthly	8.9	No pH value shall deviate from the specified range.	7.3	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Aug
S2	Water	pH	discrete	Monthly	Monthly	8.9	No pH value shall deviate from the specified range.	7.5	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Sep
S2	Water	pH	discrete	Monthly	Monthly	8.9	No pH value shall deviate from the specified range.	7.6	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Oct

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)						Lic No:	P0694-01	Year	2019						
S2	Water	pH	discrete	Monthly	Monthly	8.9	No pH value shall deviate from the specified range.	7.7	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Nov
S2	Water	pH	discrete	Monthly	Monthly	8.9	No pH value shall deviate from the specified range.	7.6	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Dec
S2	Water	COD	discrete	Monthly	Monthly	50	All values < ELV	<10	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Jan
S2	Water	COD	discrete	Monthly	Monthly	50	All values < ELV	<10	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Feb
S2	Water	COD	discrete	Monthly	Monthly	50	All values < ELV	<10	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Mar
S2	Water	COD	discrete	Monthly	Monthly	50	All values < ELV	10	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Apr
S2	Water	COD	discrete	Monthly	Monthly	50	All values < ELV	<10	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			May
S2	Water	COD	discrete	Monthly	Monthly	50	All values < ELV	<10	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Jun
S2	Water	COD	discrete	Monthly	Monthly	50	All values < ELV	<10	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Jul
S2	Water	COD	discrete	Monthly	Monthly	50	All values < ELV	15	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Aug
S2	Water	COD	discrete	Monthly	Monthly	50	All values < ELV	12	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Sep
S2	Water	COD	discrete	Monthly	Monthly	50	All values < ELV	7	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Oct
S2	Water	COD	discrete	Monthly	Monthly	50	All values < ELV	5	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Nov
S2	Water	COD	discrete	Monthly	Monthly	50	All values < ELV	8	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Dec
S2	Water	BOD	discrete	Monthly	Monthly	6	All values < ELV	4	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Jan
S2	Water	BOD	discrete	Monthly	Monthly	6	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Feb
S2	Water	BOD	discrete	Monthly	Monthly	6	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Mar
S2	Water	BOD	discrete	Monthly	Monthly	6	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Apr
S2	Water	BOD	discrete	Monthly	Monthly	6	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			May
S2	Water	BOD	discrete	Monthly	Monthly	6	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Jun
S2	Water	BOD	discrete	Monthly	Monthly	6	All values < ELV	2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Jul
S2	Water	BOD	discrete	Monthly	Monthly	6	All values < ELV	3	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Aug
S2	Water	BOD	discrete	Monthly	Monthly	6	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Sep
S2	Water	BOD	discrete	Monthly	Monthly	6	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Oct

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)						Lic No:	P0694-01	Year	2019						
S2	Water	BOD	discrete	Monthly	Monthly	6	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Nov
S2	Water	BOD	discrete	Monthly	Monthly	6	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Dec
S2	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	146	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Jan
S2	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	146	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Feb
S2	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	146	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Mar
S2	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	146	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Apr
S2	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	146	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				May
S2	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	146	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Jun
S2	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	146	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Jul
S2	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	146	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Aug
S2	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	146	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Sep
S2	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	146	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Oct
S2	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	146	All values < ELV	45	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Nov
S2	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	146	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Dec
S3	Water	pH	discrete	Monthly	Monthly	8.5	No pH value shall deviate from the specified range.	8.0	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Jan
S3	Water	pH	discrete	Monthly	Monthly	8.5	No pH value shall deviate from the specified range.	7.6	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Feb
S3	Water	pH	discrete	Monthly	Monthly	8.5	No pH value shall deviate from the specified range.	7.8	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Mar
S3	Water	pH	discrete	Monthly	Monthly	8.5	No pH value shall deviate from the specified range.	7.9	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Apr
S3	Water	pH	discrete	Monthly	Monthly	8.5	No pH value shall deviate from the specified range.	8.0	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			May
S3	Water	pH	discrete	Monthly	Monthly	8.5	No pH value shall deviate from the specified range.	8.0	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Jun
S3	Water	pH	discrete	Monthly	Monthly	8.5	No pH value shall deviate from the specified range.	7.9	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Jul
S3	Water	pH	discrete	Monthly	Monthly	8.5	No pH value shall deviate from the specified range.	8.0	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Aug
S3	Water	pH	discrete	Monthly	Monthly	8.5	No pH value shall deviate from the specified range.	7.9	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Sep
S3	Water	pH	discrete	Monthly	Monthly	8.5	No pH value shall deviate from the specified range.	7.6	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Oct

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)						Lic No:	P0694-01	Year	2019						
S3	Water	pH	discrete	Monthly	Monthly	8.5	No pH value shall deviate from the specified range.	8	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Nov
S3	Water	pH	discrete	Monthly	Monthly	8.5	No pH value shall deviate from the specified range.	7.9	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"			Dec
S3	Water	COD	discrete	Monthly	Monthly	35	All values < ELV	<10	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Jan
S3	Water	COD	discrete	Monthly	Monthly	35	All values < ELV	14	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Feb
S3	Water	COD	discrete	Monthly	Monthly	35	All values < ELV	<10	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Mar
S3	Water	COD	discrete	Monthly	Monthly	35	All values < ELV	16	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Apr
S3	Water	COD	discrete	Monthly	Monthly	35	All values < ELV	<10	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			May
S3	Water	COD	discrete	Monthly	Monthly	35	All values < ELV	16	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Jun
S3	Water	COD	discrete	Monthly	Monthly	35	All values < ELV	<10	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Jul
S3	Water	COD	discrete	Monthly	Monthly	35	All values < ELV	<10	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Aug
S3	Water	COD	discrete	Monthly	Monthly	35	All values < ELV	9	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Sep
S3	Water	COD	discrete	Monthly	Monthly	35	All values < ELV	6	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Oct
S3	Water	COD	discrete	Monthly	Monthly	35	All values < ELV	6	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Nov
S3	Water	COD	discrete	Monthly	Monthly	35	All values < ELV	7	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"			Dec
S3	Water	BOD	discrete	Monthly	Monthly	2	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Jan

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)						Lic No:	P0694-01	Year	2019						
S3	Water	BOD	discrete	Monthly	Monthly	2	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Feb
S3	Water	BOD	discrete	Monthly	Monthly	2	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Mar
S3	Water	BOD	discrete	Monthly	Monthly	2	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Apr
S3	Water	BOD	discrete	Monthly	Monthly	2	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			May
S3	Water	BOD	discrete	Monthly	Monthly	2	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Jun
S3	Water	BOD	discrete	Monthly	Monthly	2	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Jul
S3	Water	BOD	discrete	Monthly	Monthly	2	All values < ELV	2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Aug
S3	Water	BOD	discrete	Monthly	Monthly	2	All values < ELV	<5	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Sep
S3	Water	BOD	discrete	Monthly	Monthly	2	All values < ELV	2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Oct
S3	Water	BOD	discrete	Monthly	Monthly	2	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Nov
S3	Water	BOD	discrete	Monthly	Monthly	2	All values < ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"			Dec
S3	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	255	All values < ELV	25	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Jan
S3	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	255	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Feb
S3	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	255	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Mar
S3	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	255	All values < ELV	22	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Apr
S3	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	255	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				May
S3	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	255	All values < ELV	20	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Jun
S3	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	255	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Jul
S3	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	255	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Aug
S3	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	255	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Sep
S3	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	255	All values < ELV	140	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Oct
S3	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	255	All values < ELV	69	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Nov
S3	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	255	All values < ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)				Dec

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 EOS for Surface water or relevant receptor quality standards

Continuous monitoring

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

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

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

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

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

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
S1	Water	pH	6 to 9		No pH value shall deviate from the specified range	pH units	8.06		0	0	Jan-2019
S1	Water	volumetric flow	30	24 hour	No flow value shall exceed the specific limit	m3/day	8		0	0	Jan-2019
S1	Water	pH	6 to 9		No pH value shall deviate from the specified range	pH units	7.54		0	0	Aug-2019
S1	Water	volumetric flow	30	24 hour	No flow value shall exceed the specific limit	m3/day	12		0	0	Aug-2019
S1	Water	pH	6 to 9		No pH value shall deviate from the specified range	pH units	8.70		0	0	Sep-2019
S1	Water	volumetric flow	30	24 hour	No flow value shall exceed the specific limit	m3/day	14		0	0	Sep-2019
S1	Water	pH	6 to 9		No pH value shall deviate from the specified range	pH units	7.70		0	0	Dec-2019
S1	Water	volumetric flow	30	24 hour	No flow value shall exceed the specific limit	m3/day	17		0	0	Dec-2019

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

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 bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period** (mobile bunds and chemstore included)

- 1 Please provide integrity testing frequency period
- Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)
- 4 How many bunds are on site?
- 5 How many of these bunds have been tested within the required test schedule?
- 6 How many mobile bunds are on site?
- 7 Are the mobile bunds included in the bund test schedule?
- 8 How many of these mobile bunds have been tested within the required test schedule?
- 9 How many sumps on site are included in the integrity test schedule?
- 10 How many of these sumps are integrity tested within the test schedule?

Please list any sump integrity failures in table B1

- 11 Do all sumps and chambers have high level liquid alarms?
- 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
- 13 Is the Fire Water Retention Pond included in your integrity test programme?

Additional information

Yes	
3 years	
Yes	
21	
21	
10	
Yes	
10	
0	
0	
No	
N/A	
N/A	

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

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

* Capacity required should comply with 25% or 110% containment rule as detailed in your licence

Has integrity testing been carried out in accordance with licence requirements and

15 are all structures tested in line with BS8007/EPA Guidance?

[bunding and storage guidelines](#)

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

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

Commentary

SELECT	
SELECT	
SELECT	

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**

1 **which have not been tested within the integrity test period as specified**

2 Please provide integrity testing frequency period

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

Yes	
3 years	

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

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

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

Groundwater/Soil monitoring template	Lic No: P0694-01	Year 2019
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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	Use as raw water source for demineralisation water treatment plant.
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.	SELECT	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
5	Is the contamination related to operations at the facility (either current and/or historic)	no	
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	no	
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?	no	
11	Have potential receptors been identified on and off site?	no	
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

Groundwater/Soil monitoring template

Lic No:

P0694-01

Year

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Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration	unit	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
06/06/19	BH1	Chloride	Ion chromatography	Annual		11	mg/l	24-187.5		SELECT
06/06/19	BH1	Fluoride	Ion chromatography	Annual		<0.10	mg/l			
06/06/19	BH1	Ortho-phosphate	Ion chromatography	Annual		<0.33	mg/l			
06/06/19	BH1	Nitrate	Ion chromatography	Annual		<0.11	mg/l	37.5		
06/06/19	BH1	Nitrite	Spectrophotometry	Annual		<0.06	mg/l	0.375		
06/06/19	BH1	pH	pH meter	Annual		7.20	mg/l			
06/06/19	BH1	Calcium	Spectrophotometry	Annual		73	mg/l			
06/06/19	BH1	Potassium	Spectrophotometry	Annual		2	mg/l			
06/06/19	BH1	Magnesium	Spectrophotometry	Annual		40	mg/l			
06/06/19	BH1	Sodium	Spectrophotometry	Annual		8	mg/l			
06/06/19	BH1	DRO	GC-MS	Annual		<10	ug/l			
06/06/19	BH1	Mineral Oil	GC-MS	Annual		<10	ug/l			
06/06/19	BH2	Chloride	Ion chromatography	Annual		13	mg/l	24-187.5		
06/06/19	BH2	Fluoride	Ion chromatography	Annual		<0.10	mg/l			
06/06/19	BH2	Ortho-phosphate	Ion chromatography	Annual		<0.33	mg/l			
06/06/19	BH2	Nitrate	Ion chromatography	Annual		<0.11	mg/l	37.5		
06/06/19	BH2	Nitrite	Spectrophotometry	Annual		<0.06	mg/l	0.375		
06/06/19	BH2	pH	pH meter	Annual		7.20	mg/l			
06/06/19	BH2	Calcium	Spectrophotometry	Annual		80	mg/l			
06/06/19	BH2	Potassium	Spectrophotometry	Annual		2	mg/l			
06/06/19	BH2	Magnesium	Spectrophotometry	Annual		43	mg/l			
06/06/19	BH2	Sodium	Spectrophotometry	Annual		8	mg/l			
06/06/19	BH2	DRO	GC-MS	Annual		<10	ug/l			
06/06/19	BH2	Mineral Oil	GC-MS	Annual		<10	ug/l			

*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](#)
[Surface water EQS](#) [GTV's](#)

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

Environmental Liabilities template

Lic No:

P0694-01

Year

2019

[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

		Commentary
ELRA initial agreement status	Submitted and agreed by EPA	
ELRA review status	Review required and completed	
Amount of Financial Provision cover required as determined by the latest ELRA	€2,500,000	
Financial Provision for ELRA status	Submitted and agreed by EPA	
Financial Provision for ELRA - amount of cover	€2,500,000	
Financial Provision for ELRA - type	Other please specify	Parent Company Guarantee
Financial provision for ELRA expiry date	None	
Closure plan initial agreement status	Closure plan submitted and agreed by EPA	
Closure plan review status	Review required and completed	
Financial Provision for Closure status	Submitted and agreed with EPA	
Financial Provision for Closure - amount of cover	€584,883	
Financial Provision for Closure - type	Other please specify	Parent Company Guarantee
Financial provision for Closure expiry date	None	

Environmental Management Programme/Continuous Improvement Programme template	Lic No:	P0694-01	Year	2019
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	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
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
Additional improvements	Achieve no Major Non Conformances	100	ISO 14001 audit completed in May 2019. No major or minor non-conformances received.	Individual	Improved Environmental Management Practices
Waste reduction/Raw material usage efficiency	Consider reducing the amount of waste going to landfill by 10% by introducing a composting bin onsite.	50	Compost bins have been provided and are in operation onsite during the last quarter of the year. Waste diversion will be monitored during 2020.	Individual	Improved Environmental Management Practices
Additional improvements	Prepare gap analysis report and outline an action plan to achieve compliance with BAT Conclusions for Large Combustion Plant (LCPBREF)	70	Gap analysis was in progress at this time of submission of the AER	Individual	Increased compliance with licence conditions
Reduction of emissions to Wastewater	Consider options to reduce oily water waste generated from around the Rhode generating units by 50%	0	This was put on hold pending the outcome of the possible plant relocation. The plant relocation was withdrawn in Jan 2020, so this will be progressed in 2020.	Individual	Reduced emissions
Additional improvements	Achieve no environmental licence breaches	100	No licence breaches recorded.	Individual	Increased compliance with licence conditions
Reduction of emissions to Air	Maintain the water injection abatement malfunctions incidents the same level as 2017/2018. Target: 2 incident at Rhode.	100	1 water injection malfunction recorded in Rhode on 06.11.19. This is still within the target of 2 incidents.	Individual	Increased compliance with licence conditions

Noise monitoring summary report

Lic No: P0694-01 Year: 2019

- 1 Was noise monitoring a licence requirement for the AER period?
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? [Noise Guidance note NG4](#)
- 3 Does your site have a noise reduction plan?
- 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?

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	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 <u>site</u> compliant with noise limits (day/evening/night)?
								SELECT	SELECT		SELECT

*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?

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

Any additional comments? (less than 200 words)

2019

Additional information

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 Network \(LIEN\)](#)

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

Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

No	
Yes	<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)				
Total Energy Generated (MWHrs)	5437	5385	-1%	
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)				
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	1402.48	1453.79	3.5%	
Natural gas (m3)				
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	1151	3481.4	67%				
Surface water							
Public supply	507	92	-451%				
Recycled water							
Total	1658	3573.4	54%				

* 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

Resource Usage/Energy efficiency summary

Lic No: =NoiseI1

Year

2019

	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	30.11			30.11	
Non-Hazardous (Tonnes)	2.64	0.17		0.46	2

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 1A	Unit 1B	Unit 2A	Unit 2B	Station Total
Technology	Gas Turbine	Gas Turbine	Gas Turbine	Gas Turbine	
Primary Fuel	LFO	LFO	LFO	LFO	
Thermal Efficiency	35%	35%	35%	35%	
Energy Input (net calorific value in TJ)	14.01	23.45	10.73	14.37	
Unit Date of Commission	2004	2004	2004	2004	
Total Starts for year	57	59	36	43	
Total Running Time	66.6	124.8	48.6	75.9	
Total Electricity Generated (GWH)					5.385
House Load (GWH)					
KWH per Litre of Process Water					1547
KWH per Litre of Total Water used on Site					1507

Complaints and Incidents summary template Lic No: P0694-01 Year 2019

Complaints		Additional information
Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below		No

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

Incidents		Additional information
Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below		Yes

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

Complaints and Incidents summary template Lic No: P0694-01 Year 2019

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
06/11/2019	Other(please specify) Abatement Malfunction	A1, A2, A3 & A4	1. Minor	Air	Plant or equipment issues		Normal activities	EPA	New	Site Technician investigated the issue. It was found that demineralisation water skid outlet pipe valve was in the incorrect position. Once the valve was corrected, the water injection abatement system operated as normal for the remainder of the run.	Following investigation, it was found that this valve was examined during a recent engineering survey and it was not restored to its correct position. The importance of returning valves to their normal position has been stressed to site staff.	Complete	06/11/2019	Low
Total number of incidents current year	1													
Total number of incidents previous year	4													
% reduction/increase	-75%													

WASTE SUMMARY	Lic No: P0694-01	Year: 2019
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)**
 If yes please enter details in table 1 below

Additional Information	
No	

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

SELECT	
SELECT	

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 European Waste Catalogue EWC codes	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EWC code European Waste Catalogue EWC codes	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 -

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
- 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
- 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	
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

WASTE SUMMARY				Lic No:	P0694-01	Year	2019
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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
										SELECT UNIT	SELECT UNIT
Cell 8											

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

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

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

Table 5 Capping-Landfill only

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard 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
			SELECT	

Waste Summary Continued

Please insert a copy of your 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
15 02 02*	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances	Hazardous	0.39	Enva Ireland Limited (Portlaoise) - W0184	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)	Lindenschmidt	R01 - Use principally as a fuel or other means to generate energy
20 01 02	Glass	-	0.09	Advanced Environmental Solutions (Ireland) Limited (Tullamore) - W0104	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)	-	
16 02 14 D	Non-household other waste electrical and electronic equipment, non-hazardous	-	0.23	Enva Ireland Limited (Portlaoise) - W0184	R12 - Exchange of waste for submission to any of the operations numbered R 1 to R 11	-	
15 01 10*	packaging containing residues of or contaminated by hazardous substances	Hazardous	0.1	Enva Ireland Limited (Portlaoise) - W0184	R12 - Exchange of waste for submission to any of the operations numbered R 1 to R 11	Recyfuel	R01 - Use principally as a fuel or other means to generate energy
16 05 04*	gases in pressure containers (including halons) containing hazardous substances	Hazardous	0.04	Enva Ireland Limited (Portlaoise) - W0184	R12 - Exchange of waste for submission to any of the operations numbered R 1 to R 11	Remondis	R04 - Recycling/reclamation of metals and metal compounds
20 03 04	septic tank sludge	-	2	Ringsend - D0034	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	-	

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 01 B	Municipal mixed residual non-household	-	0.17	Advanced Environmental Solutions (Ireland) Limited (Tullamore) - W0104	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)	-	
15 01 01	paper and cardboard packaging	-	0.15	Advanced Environmental Solutions (Ireland) Limited (Tullamore) - W0104	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)	-	
13 02 08*	other engine, gear and lubricating oils	Hazardous	28.9	Enva Ireland Limited (Portlaoise) - W0184	R09 - Oil re-refining or other reuses of oil	-	
16 01 07*	oil filters	Hazardous	0.68	Enva Ireland Limited (Portlaoise) - W0184	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)	R.D Recycling	R04 - Recycling/reclamation of metals and metal compounds