

Facility Information Summary	
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AER Reporting Year	2016
Licence Register Number	W0015-01
Name of site	Ballyogan Landfill & Recycling Park
Site Location	Ballyogan, Carrickmines, Dublin 18
NACE Code	3821
Class/Classes of Activity	Deposit in or under land (closed unlined landfills)
National Grid Reference (6E, 6 N)	320500E 223900N (-6.19293 lon 53.252 lat)

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.**

Currently the site operates only a Civic Recycling Facility (CRF) within the Recycling Park. This was operated by Oxigen Environmental on a short term contract since August 2010-February 2016 and is now operated by Thorntons. The principal activity on the site up to March 2005 was 'deposit in, on or under land' within the landfill site. The landfill site ceased accepting waste on 29th March 2005. The principal activity on site from 2005 to 2009 was baling waste for transfer to Arthurstown Landfill, Kill, Co.Kildare. Ballyogan waste transfer facility ceased operation in May 2009.

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.

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

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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 licensed 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	Yes	
		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	Yes	
		Yes	

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

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments -reason for change in % mass load from previous year if applicable
BN02	Carbon monoxide (CO)	annually	650	SELECT	932.85	mg/Nm3	no (if no please enter details in comments box)	NDIR by Horiba PG-350E	7820.83	The licene limit is far lower than that recommended in AG7 of 1400 to 1500 mg/m3. It is below that limit.
BN02	Nitrogen oxides (NOx/NO2)	annually	500	SELECT	363.85	mg/Nm3	yes	Chemiluminescence by Horiba PG-250	3088.15	stack testing result in 2015 was higher than 2016. Engine BN01 tested in 2015, and BN02 tested in 2016.
BN02	Sulphur oxides (SOx/SO2)	annually	-	SELECT	537.62	mg/Nm3	SELECT	NDIR by Horiba PG-250	4507.5	stack testing result in 20156 was higher than that in 2015. Engine BN01 tested in 2015, and BN02 tested in 2016.
BN02	volumetric flow	annually	3000	SELECT	1106	m3/hr	SELECT	Pitot tube and thermocouple		

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

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Continuous Monitoring				

<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>	No	
<p>5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below</p>	No	
<p>6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?</p>	No	
<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
				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

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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					SELECT			
Table A4: Solvent Management Plan Summary Total VOC Emission limit value		Solvent regulations Please refer to linked solvent regulations to complete table 5 and 6						
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 through	Total emission of Solvent to air (kg)
Total								

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)	Lic No: W0015-01	Year: 2016
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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

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

Additional information	
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
Stormwater Outlet	onsite	SELECT	Ammonia (as N)	Jan-Dec 2016 weekly	35	All values < ELV	1.269	mg/L	yes	
Stormwater Outlet	onsite	SELECT	Suspended Solids	Jan-Dec 2016 weekly	N/A	N/A	0.07632549	mg/L	yes	

*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)

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

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

Additional information	
No	
Yes	

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
Landfill Sewer	Wastewater/Sewer	pH	discrete	Monthly	Annual	5.0-10.0	No pH value shall deviate from the specified range.	7.86	pH units	yes	This detail is included in each of the lab certs submitted to agency, too much information to repeat.	This detail is included in each of the lab certs submitted to agency, too much information to repeat.	This detail is included in each of the lab certs submitted to agency, too much information to repeat.		
Landfill Sewer	Wastewater/Sewer	Dissolved Methane	discrete	Monthly	Annual	0.14	All results < 1.2 x ELV	0.01	mg/L	yes	as above	as above	as above	0.30	
Landfill Sewer	Wastewater/Sewer	Ammoniacal Nitrogen	discrete	Monthly	Annual	300	All results < 1.2 x ELV	82.24	mg/L	yes	as above	as above	as above	2,491.10	
Landfill Sewer	Wastewater/Sewer	BOD	discrete	Monthly	Annual	12500	All results < 1.2 x ELV	2.89	mg/L	yes	as above	as above	as above	87.66	
Landfill Sewer	Wastewater/Sewer	COD	discrete	Monthly	Annual	37500	All results < 1.2 x ELV	64.04	mg/L	yes	as above	as above	as above	1,939.82	
Landfill Sewer	Wastewater/Sewer	Oils, Fats & Greases (Dissolved)	discrete	Monthly	Annual	200	All results < 1.2 x ELV	<1	mg/L	yes	as above	as above	as above	<30.29	
Landfill Sewer	Wastewater/Sewer	Sulphate	discrete	Monthly	Annual	500	All results < 1.2 x ELV	57.21	mg/L	yes	as above	as above	as above	1,732.84	
Landfill Sewer	Wastewater/Sewer	Surfactants	discrete	Monthly	Annual	100	All results < 1.2 x ELV	0.39	mg/L	yes	as above	as above	as above	11.74	
Landfill Sewer	Wastewater/Sewer	Total Suspended Solids	discrete	Monthly	Annual	2500	All results < 1.2 x ELV	19.42	mg/L	yes	as above	as above	as above	588.13	

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

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

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

Lic No:

W0015-01

Year

2016

Continuous monitoring

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

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

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

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

Yes	The site has an ongoing maintenance contract with CSL to ensure equipment on site is maintained
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8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

No

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
Landfill Sewer	Wastewater/Sewer	Temperature	N/A	24 hour	SELECT	degrees C					
Landfill Sewer	Wastewater/Sewer	Methane (dissolved)	0.14	24 hour	All values < ELV	mg/L	0.37			0	
Landfill Sewer	Wastewater/Sewer	pH	5 to 10	24 hour	No pH value shall deviate from the specified range.	pH units					

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

Additional information

- Are you required by your licence to undertake integrity testing on bunds and containment structures? If yes please fill out table B1 below listing all **new bunds and containment structures** on site, in addition to **all bunds which failed the integrity test-all bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period** (mobile bunds and chemstore included)
- 1 Please provide integrity testing frequency period
 - 2 Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)
 - 3 How many bunds are on site?
 - 4 How many of these bunds have been tested within the required test schedule?
 - 5 How many mobile bunds are on site?
 - 6 Are the mobile bunds included in the bund test schedule?
 - 7 How many of these mobile bunds have been tested within the required test schedule?
 - 8 How many sumps on site are included in the integrity test schedule?
 - 9 How many of these sumps are integrity tested within the test schedule?
- Please list any sump integrity failures in table B1**
- 11 Do all sumps and chambers have high level liquid alarms?
 - 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
 - 13 Is the Fire Water Retention Pond included in your integrity test programme?

Yes	
3 years	
Yes	
5	
Yes	
All	
Yes	
All	
None	
N/a	
SELECT	
SELECT	
SELECT	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)
Hazardous waste conta	other (please specify)	mild steel storage container with	Household Hazardous wast	1200 litre	minimal	Hydraulic test	c test - see bund test cert previously	21/09/2016	Yes	Pass		SELECT	2019	
Mobile Bund MB1	prefabricated	Polyethylene	waste paint (from househo	250 litre		Hydraulic test	c test - see bund test cert previously	31/08/2016	Yes	Pass		SELECT	2019	
Mobile Bund MB2	prefabricated	Polyethylene	inside hazardous waste con	130 litre		Hydraulic test	c test - see bund test cert previously	21/09/2016	Yes	Pass		SELECT	2019	
Mobile Bund MB3	prefabricated	Polyethylene	inside hazardous waste con	130 litre		Hydraulic test	c test - see bund test cert previously	21/09/2016	Yes	Pass		SELECT	2019	
Bund B2	other (please specify)	mild steel storage container with	Lawnmowers and small too	300 litre	minimal	Hydraulic test	c test - see bund test cert previously	21/09/2016	Yes	Pass		SELECT	2019	

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

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

[bunding and storage guidelines](#)

No	
SELECT	Not applicable
SELECT	not applicable

Pipeline/underground structure testing

- Are you required by your licence to undertake integrity testing* on underground structures e.g. pipelines or sumps etc? If yes please fill out table 2 below listing all underground structures and pipelines on site **which failed the integrity test and all which have not been tested within the integrity test period as specified**
- 2 Please provide integrity testing frequency period
- *please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

No	
SELECT	n/a

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:	W0015-01	Year	2016
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		Comments	
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes	Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results 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) Groundwater monitoring template and submit separately through ALDER as a licensee return AND answer questions 5-12 below.	yes	There is 4 years of data available to examine these trends (2013-2016). There are some minor increases in parameters both upgradient and downgradient of the site. Quarterly parameters with rising trends, have shown a low level of increasing trend and are well below the relevant IGV/OTV. The annual parameters with rising trends overall, are well below the relevant IGV/OTV. Manganese was above the IGV at well MW4D (downgradient) similar to 2015 but can be a widely occurring element in groundwaters.
5	Is the contamination related to operations at the facility (either current and/or historic)	N/A	
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	N/A	
7	Please specify the proposed time frame for the remediation strategy	N/A	
8	Is there a licence condition to carry out/update ELRA for the site?	N/A	
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?	yes	
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	GTVs*	IGV	Upward trend in pollutant concentration over last 5 years of monitoring data
2016	MW7D	pH	Field probe	Quarterly	7.47	7.31	pH Unit		>6.5 & <9.5	no
2016	MW7D	Electrical Conductivity	Field probe	Quarterly	0.60	0.60	mS/cm	1.875		yes
2016	MW7D	Dissolved Oxygen	Field probe	Quarterly	4.79	3.77	mg/l		NAC	no
2016	MW7D	Ammoniacal Nitrogen	Kone Analyser	Quarterly	0.04	0.02	mg/l	0.175		no
2016	MW7D	Chloride	Kone Analyser	Quarterly	31.00	30.63	mg/l	187.5		yes
2016	MW7D	Potassium	Nitric Digest/ICP	Quarterly	1.81	1.81	mg/l		5	no
2016	MW7D	Sodium	Nitric Digest/ICP	Quarterly	18.20	16.53	mg/l	150		yes
2016	MW7D	Total Organic Carbon	Colorimetry	Quarterly	<3	<3	mg/l		NAC	no
2016	MW7D	Total Oxidised Nitrogen	Kone Analyser	Quarterly	3.22	3.10	mg/l		NAC	no
2016	MW7D	Phenols, Total Detected 5	HPLC	Quarterly	<0.025	<0.025	mg/l	0.0005		no
2016	MW7D	Alkalinity	Colorimetry	Annual	260.00		mg/l		NAC	no
2016	MW7D	Boron (diss.filt)	Nitric Digest/ICP	Annual	13.50		µg/l	750		no
2016	MW7D	Cadmium (diss.filt)	Nitric Digest/ICP	Annual	<0.1		µg/l	3.75		no
2016	MW7D	Calcium (diss.filt)	Nitric Digest/ICP	Annual	93.70		mg/l		200	no
2016	MW7D	Chromium (tot.unfilt)	Nitric Digest/ICP	Annual	<3		µg/l	37.5		no
2016	MW7D	Copper (diss.filt)	Nitric Digest/ICP	Annual	<0.85		µg/l	1500		no
2016	MW7D	Cyanide	Nitric Digest/ICP	Annual	<0.05		mg/l	0.0375		no
2016	MW7D	Fluoride	Kone Analyser	Annual	<0.5		mg/l	1		no
2016	MW7D	Iron (diss.filt)	Nitric Digest/ICP	Annual	<0.019		mg/l		0.2	no
2016	MW7D	Lead (diss.filt)	Nitric Digest/ICP	Annual	0.29		µg/l	18.75		no
2016	MW7D	Magnesium (diss.filt)	Nitric Digest/ICP	Annual	8.22		mg/l		50	yes
2016	MW7D	Manganese (diss.filt)	Nitric Digest/ICP	Annual	9.17		µg/l		50	yes
2016	MW7D	Mercury (diss.filt)	Nitric Digest/ICP	Annual	<0.01		µg/l	0.75		no
2016	MW7D	Phosphorus (tot.unfilt)	Nitric Digest/ICP	Annual	85.2		µg/l	35		no
2016	MW7D	Sulphate as SO4	Kone Analyser	Annual	18.8		mg/l	187.5		no
2016	MW7D	Zinc (diss.filt)	Nitric Digest/ICP	Annual	3.14		µg/l		100	yes
2016	MW7D	Total Coliforms	Collert System	Annual	3		MPN/100ml	0		yes
2016	MW7D	Faecal Coliforms	Membrane Filtration	Annual	<1		CFU/100ml	0		no
2016	MW7D	Total Suspended Solids	Filtration	Annual	2.5		mg/l			no

.+ where average indicates arithmetic mean

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

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	IGV	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
2016	MW4D	pH	Field probe	Quarterly	7.643	7.56	pH Unit		>6.5 & <9.5	yes
	MW4D	Electrical Conductivity	Field probe	Quarterly	0.734	0.73	mS/cm	1.875		no
	MW4D	Dissolved Oxygen	Field probe	Quarterly	6.37	5.29	mg/l		NAC	no
	MW4D	Ammoniacal Nitrogen	Kone Analyser	Quarterly	0.0822	0.06	mg/l	0.175		no
	MW4D	Chloride	Kone Analyser	Quarterly	46	44.05	mg/l	187.5		yes
	MW4D	Potassium	Nitric Digest/ICP	Quarterly	2.41	1.72	mg/l		5	yes
	MW4D	Sodium	Nitric Digest/ICP	Quarterly	24.2	22.98	mg/l	150		yes
	MW4D	Total Organic Carbon	Colorimetry	Quarterly	<3	<3	mg/l		NAC	no
	MW4D	Total Oxidised Nitrogen	Kone Analyser	Quarterly	<0.1	<0.1	mg/l		NAC	no
	MW4D	Phenols, Total Detected 5	HPLC	Quarterly	<0.025	<0.025	mg/l	0.0005		no
	MW4D	Alkalinity, Total as CaCO3	Colorimetry	Annual	305		mg/l		NAC	no
	MW4D	Boron (diss.filt)	Nitric Digest/ICP	Annual	50.7		µg/l	750		yes
	MW4D	Cadmium (diss.filt)	Nitric Digest/ICP	Annual	<0.1		µg/l	3.75		no
	MW4D	Calcium (diss.filt)	Nitric Digest/ICP	Annual	109		mg/l		200	no
	MW4D	Chromium (tot.unfilt)	Nitric Digest/ICP	Annual	<3		µg/l	37.5		no
	MW4D	Copper (diss.filt)	Nitric Digest/ICP	Annual	<0.85		µg/l	1500		no
	MW4D	Cyanide	Nitric Digest/ICP	Annual	<0.05		mg/l	0.0375		no
	MW4D	Fluoride	Kone Analyser	Annual	<0.5		mg/l	1		no
	MW4D	Iron (diss.filt)	Nitric Digest/ICP	Annual	<0.019		mg/l		0.2	no
	MW4D	Lead (diss.filt)	Nitric Digest/ICP	Annual	0.086		µg/l	18.75		no
	MW4D	Magnesium (diss.filt)	Nitric Digest/ICP	Annual	15.5		mg/l		50	yes
	MW4D	Manganese (diss.filt)	Nitric Digest/ICP	Annual	590		µg/l		50	yes
	MW4D	Mercury (diss.filt)	Nitric Digest/ICP	Annual	<0.01		µg/l	0.75		no
	MW4D	Phosphorus (tot.unfilt)	Nitric Digest/ICP	Annual	66		µg/l	35		no
	MW4D	Sulphate as SO4	Kone Analyser	Annual	50.2		mg/l	187.5		yes
	MW4D	Zinc (diss.filt)	Nitric Digest/ICP	Annual	3.96		µg/l		100	no
	MW4D	Total Coliforms	Colliert System	Annual	14.5		MPN/100ml		0	no
	MW4D	Faecal Coliforms	Membrane Filtration	Annual	-		CFU/100ml		0	no
	MW4D	Total Suspended Solids	Gravimetric Filtration	Annual	50		mg/l			no

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

Table 3: Soil results

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

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

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

			Commentary
1	ELRA initial agreement status	SELECT	An ELRA has been requested on the request of the insurance company.
2	ELRA review status	SELECT	
3	Amount of Financial Provision cover required as determined by the latest ELRA	Specify	
4	Financial Provision for ELRA status	SELECT	
5	Financial Provision for ELRA - amount of cover	Specify	
6	Financial Provision for ELRA - type	SELECT	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	closure plan submitted and agreed by EPA	Landfill was closed in 2005
9	Closure plan review status	SELECT	
10	Financial Provision for Closure status	SELECT	
11	Financial Provision for Closure - amount of cover	Specify	
12	Financial Provision for Closure - type	SELECT	
13	Financial provision for Closure expiry date	Enter expiry date	

Environmental Management Programme/Continuous Improvement Programme template Lic No: W0015-01 Year 2016

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	No	
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	SELECT	
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	SELECT	
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	SELECT	

Environmental Management Programme (EMP) report					
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
SELECT		SELECT		SELECT	SELECT
SELECT		SELECT		SELECT	SELECT
SELECT		SELECT		SELECT	SELECT

Noise monitoring summary report

Lic No: W0015-01

Year

2016

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

If yes please fill in table N1 noise summary below

Yes

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

[Noise 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 _{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 site compliant with noise limits (day/evening/night)?
27/07/2016	Day	321149E 224527N	NSL1	72.26	59.29	76.22	87.52	No	No	Onsite: 1 Car left civic amenity site. Offsite: Ballyogan Road Traffic,Luas, pedestrians	Yes
27/07/2016	Night	321149E 224527N	NSL1	63.73	40	65.98	85.84	No	No	Onsite: None Offsite: Ballyogan Road and M50 traffic, Luas, ESB substation (distant)	Yes
27/07/2016	Day	320801E 224620N	NSL2	58.32	42.09	56.98	87.17	No	No	Onsite: Landfill Engine (in background, distant), Civic amenity site truck Offsite: ESB substation pylons, Luas, kids in creche/playschool nearby, Ballyogan road traffic. Bird song. Main noise sources were from the DLR depot vehicles passing in and out of depot	Yes
28/07/2016	Night	320801E 224620N	NSL2	41.24	36.03	41.43	70.4	No	No	Onsite: Landfill Methane plant engine Offsite: ESB pylon, M50 traffic (distant), Luas, Ballyogan Road traffic, post office depot staff traffic	Yes
27/07/2016	Day	320834E 224358N	NSL3	67.83	54.02	72.46	83.17	No	No	Onsite: None Offsite: DLR depot traffic, Ballyogan Road traffic, Luas, pedestrians on pavement. ESB substation barely audible.	Yes
28/07/2016	Night	320834E 224358N	NSL3	58.22	36.38	58.37	78.96	No	No	Onsite: Landfill Methane plant engine Offsite: ESB pylon, Ballyogan road traffic (distant), Luas, an post depot activity.	Yes

27/07/2016	Day	321268E 224214N	NSL4	73.75	59.42	76.74	103.32	No	No	Onsite: None Offsite: Ballyogan Road traffic ,Pedestrians, across road, Luas.	Yes
27/07/2016	Night	321268E 224214N	NSL4	67.85	44.7	71.39	88.24	No	No	Onsite: None Offsite: Ballyogan Road traffic, Luas, ESB substation pylon (distant)	Yes
27/07/2016	Day	320916E 224297N	NSL5	54.93	49.67	58	72.54	No	No	Onsite: Civic Amenity Site: customers filling bins and traffic. Offsite: Ballyogan Road Traffic, Luas, ESB substation pylon, post office traffic	Yes
28/07/2016	Night	320916E 224297N	NSL5	45.02	36.6	46.89	66.58	No	No	Onsite: Landfill Methane Plant Engine. Offsite: ESB pylon, Ballyogan Road Traffic, dog barks in distance, Luas	Yes
27/07/2016	Day	320532E 223356N	NSL6	41.9	38.77	43.82	59.35	No	No	Onsite: None Offsite: Glenamuck and Enniskerry Road traffic, M50 traffic (distant), engine in rugby club)	Yes
28/07/2016	Night	320532E 223356N	NSL6	32.87	22.69	33.39	67.95	No	No	Onsite: None Offsite: Road traffic (M50, distant), Glenamuck and Enniskerry Road traffic. Machinery in distance	Yes
27/07/2016	Day	320320E 223143N	NSL7	42.46	39.35	44.56	65.97	No	No	Onsite: None Offsite: Bird song, M50 traffic (distant)	Yes
28/07/2016	Night	320320E 223143N	NSL7	33	19.68	32.51	62.9	No	No	Onsite: None Offsite: Road traffic (M50, distant), ESB Pylon at substation, animals in wood (calls), Glenamuck and Enniskerry Road traffic.	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?

nothing**

Noise exceedances at noise sensitive locations were attributable to offsite sources like Ballyogan Road and M50 road traffic, pedestrians on the Ballyogan road, birdsong, luas, pedestrian and offsite activities. They were not as a result of facility activities.

Any additional comments? (less than 200 words)

Resource Usage/Energy efficiency summary

Lic No:

W0015-01

Year

2016

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

Additional information	
Enter date of audit	
No	
SELECT	Not applicable

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)				
Total Renewable Energy Generated (MWHrs)	5262	4882	down 7%	7.22%
Electricity Consumption (MWHrs)	212.878	239.813	PLUS 12%	12.65%
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)				
Natural gas (m3)	6915	8245	PLUS 19%	19.23%
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
Groundwater						
Surface water						
Public supply	1693.5	2124				Unaccounted for Water:
Recycled water						Unaccounted for Water:
Total	1693.5	2124				Unaccounted for Water:

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

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

Table R3 Waste Stream Summary					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)					

Resource Usage/Energy efficiency summary Lic No: W0015-01 Year 2016

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					
Primary Fuel					
Thermal Efficiency					
Unit Date of Commission					
Total Starts for year					
Total Running Time					
Total Electricity Generated (GWH)					
House Load (GWH)					
KWH per Litre of Process Water					
KWH per Litre of Total Water used on Site					

Complaints and Incidents summary template Lic No: W0015-01 Year 2016

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

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](#)

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
14/01/2016	Trigger level reached	Other location (Perimeter Gas Wells)	1. Minor	Air	Operational controls	CO2 was above the trigger level of 1.5% v/v at perimeter wells: GW01: 1.5 GW04: 2.6%, GW05: 3.2%, GW09: 3%, GW20A: 4%, GW24: 5.4%, GW45A: 2.2%, GW48A: 5.8%, GW49A: 1.5%, GW56: 1.5%, GW57B: 1.5%, GW59A: 4.1%, GW79A: 1.6%, GW81: 1.6%, GW84A: 1.5%	Normal activities	EPA	Recurring			Ongoing	n/a	High
16/02/2016	Trigger level reached	Other location (Perimeter Gas Wells)	1. Minor	Air	Operational controls	CO2 was above the trigger level of 1.5% v/v at perimeter wells: GW04: 2.8% GW05: 3.4% GW06: 1.8% GW09A: 3.6% GW19A: 3.4%, GW20A: 4.5%, GW24: 5.5%, GW45A: 4.4%, GW47A: 1.7%, GW48A: 6%, GW49A: 2.9%, GW50A: 2%, GW55A: 1.7%, GW57B: 2.4%, GW58: 2.1%, GW59A: 6%, GW79A: 2.3%, GW81: 2%, GW82: 2.6%, GW83: 1.8%.	Normal activities	EPA	Recurring			Ongoing	n/a	High
03/03/2016	Trigger level reached	Other location (Perimeter Gas Wells)	1. Minor	Air	Operational controls	CO2 was above the trigger level of 1.5% v/v at perimeter wells: GW05: 3.4%, GW06: 2%, GW09A: 2.4%, GW17: 1.6%, GW19A: 3.5%, GW20A: 4.7%, GW24: 5.6%, GW45A: 3.2%, GW47A: 2.2%, GW48A: 9.7%, GW49A: 2.9%, GW50A: 1.6%, GW52B: 3.3%, GW55A: 2.4%, GW57B: 2.5%, GW58: 2.3%, GW59A: 5.6%, GW76A: 1.5%, GW79A: 2.4%, GW80: 1.9%, GW81: 2.2% GW82: 2.6%, GW83: 1.9%, GW84A: 1.6%.	Normal activities	EPA	Recurring			Ongoing	n/a	High
23/04/2016	Trigger level reached	Other location (Perimeter Gas Wells)	1. Minor	Air	Operational controls	CO2 was above the trigger level of 1.5% v/v at perimeter wells: GW03: 1.7%, GW04: 2.5%, GW05: 3.6%, GW06: 2.3%, GW09A: 2.7%, GW15: 1.5%, GW17: 2.8%, GW18: 1.6%, GW19A: 4%, GW20A: 5.4%, GW24: 6.8%, GW45A: 5%, GW47A: 3.7%, GW48A: 1.9%, GW49A: 3.8%, GW52B: 5.3%, GW55A: 1.8%, GW56: 2.3%, GW57B: 3.5%, GW58: 2.2%, GW59A: 6.2%, GW76A: 1.8%, GW79A: 2.9%, GW81: 2.6%, GW82: 2.4%, GW83: 2.4%, GW84A: 1.7%.	Normal activities	EPA	Recurring			Ongoing	n/a	High
18/05/2016	Trigger level reached	Other location (Perimeter Gas Wells)	1. Minor	Air	Operational controls	CO2 was above the trigger level of 1.5% v/v at perimeter wells: GW04: 2.9%, GW05: 3.5%, GW06: 2.5%, GW08: 1.8%, GW09A: 1.7%, GW15: 1.7%, GW17: 3%, GW18: 1.7%, GW19A: 4.4%, GW20A: 5.4%, GW24: 6.6%, GW45A: 6.2%, GW48A: 7.7%, GW49A: 4.5%, GW51A: 1.6%, GW52B: 6.8%, GW55A: 1.8%, GW56: 2.3%, GW57B: 3.4%, GW58: 2.3%, GW59A: 6.7%, GW76A: 1.9%, GW79A: 3.3%, GW80: 2.3%, GW81: 3%, GW82: 3.1%, GW83: 2.5%, GW84A: 3%, GW47A: 5.1%.	Normal activities	EPA	Recurring			Ongoing	n/a	High

WASTE SUMMARY	Lic No:	W0015-01	Year	2016
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES		PRTR facility logon	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

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

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

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 -

Additional Information

The only waste accepted is at the civic amenity where it is stored prior to transfer off site for recovery, recycling or treatment at other facilities.

No

N/A

No

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

N/A

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

Yes

6 Does your facility have relevant nuisance controls in place?

Yes

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

N/A

8 Do you maintain a sludge register on site?

N/A

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
		0		Ballyogan landfill ceased waste acceptance in 2005.

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	
Stage 1	1975	2005	No	Public	Non Hazardous	2005	No			177000	0	177000	
Stage 2	1975	2005	No	Public	Non Hazardous	2005	No			266000	0	266000	

WASTE SUMMARY	Lic No:	W0015-01	Year	2016
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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
Yes	Yes	Yes	Yes	No	Yes	No		

-> 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					
0	0	0	0	443000	Topsoil, Subsoil, Geocomposite, Clay liner	

*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?

Yes

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

No

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
1894817		national grid	Yes	



[Guidance to completing the PRTR workbook](#)

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2016
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1. FACILITY IDENTIFICATION

Parent Company Name	Dun Laoghaire Rathdown County Council
Facility Name	Ballyogan Landfill Facility Ballyogan Recycling Park
PRTR Identification Number	W0015
Licence Number	W0015-01

Classes of Activity	
No.	Class name
-	Refer to PRTR class activities below

Address 1	Ballyogan Road
Address 2	Jamestown Townland
Address 3	Carrickmines
Address 4	Dublin 18
Country	Ireland
Coordinates of Location	-6.19293 53.252
River Basin District	IEEA
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Seamus Moran
AER Returns Contact Email Address	smoran@DLRCOCO.ie
AER Returns Contact Position	Facility Manager
AER Returns Contact Telephone Number	0866026888
AER Returns Contact Mobile Phone Number	0866026888
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	2
User Feedback/Comments	Air: Net ch4 emissions decreased slightly as expected due to decreasing gas generation (and corresponding decreasing gas available for capture). RPTR pollutants: In 2015 the result of stack testing for SO2 was lower than in 2016. In 2015 stack testing result for NOx was higher than in 2016. The no. emission points changed. In 2015, 2 engines ran alternately. In 2016, one engine ran 7582 hours. T&T Wastes: The vol of leachate discharged to sewer was much higher in 16 than reprd in 15. This is due to previous unit rptng error where flow rate was understood as m3/hr but inves in 16 determined it as l/s. New 2015 PRTR to be submitted.
Web Address	700 word text limit above required typing in shorthand. Please remove the data validation for text length or provide comment boxes on each tab.

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(d)	Landfills
5(c)	Installations for the disposal of non-hazardous waste
5(d)	Landfills
50.1	General

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

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

4. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

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

This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASERS TO AIR		METHOD		Please enter all quantities in this section in KGs				
No. Annex II	POLLUTANT Name	M/C/E	Method Used		QUANTITY			
			Method Code	Designation or Description	Engine (BN02) Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
02	Carbon monoxide (CO)	M	EN 15058:2004	NDIR by Horiba PG-250	7820.83	7820.83	0.0	0.0
11	Sulphur oxides (SOx/SO2)	M	ALT	TGN M21, NDIR by Horiba PG-250	4507.5	4507.5	0.0	0.0
08	Nitrogen oxides (NOx/NO2)	M	EN 14792:2005	Chemiluminescence by Horiba PG-250	3088.15	3088.15	0.0	0.0
01	Methane (CH4)	C	OTH	Total predicted generation minus total captured methane	0.0	1095312.0	0.0	1095312.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

RELEASERS TO AIR		METHOD		Please enter all quantities in this section in KGs				
No. Annex II	POLLUTANT Name	M/C/E	Method Used		QUANTITY			
			Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

RELEASERS TO AIR		METHOD		Please enter all quantities in this section in KGs				
Pollutant No.	POLLUTANT Name	M/C/E	Method Used		QUANTITY			
			Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T (total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill:		Ballyogan Landfill Facility Ballyogan Recycling Park			
Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used		Facility Total Capacity m3 per hour
			Method Code	Designation or Description	
Total estimated methane generation (as per site model)	1947085.0	E	OTH	Gassim 2.5	N/A
Methane flared	7158.0	M	OTH	measured at flare	1500.0 (Total Flaring Capacity)
Methane utilised in engine/s	844615.0	M	OTH	measured at engine	1600.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	1095312.0	C	OTH	calculated as predicted minus	N/A

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	MCE	Method Used	Location of Treatment	From/To Name and Address of Facility		Name and Licence / Permit No. and Address of Final Recipient / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination (i.e. Final Receiver / Disposer (HAZARDOUS WASTE ONLY))
								From/To Name and Address of Facility	To Name and Address of Facility		
Within the Country	08 03 99	No	0.92 wastes not otherwise specified	R12	M	Weighted	Offsite in Ireland	Kilderson Printers ,WCPEX-DC-08-11-01	17 The Sycamores, Steadbrook Hill, Blackrock, Co. Dublin WCPEX-DC-08-11-01, Ireland		
Within the Country	15 01 01	No	1.4 paper and cardboard packaging	R12	M	Weighted	Offsite in Ireland	Oxigen, W0208-01	Unit 51, Henry Road, Parkwest Business Park, Dublin 12, Ireland		
Within the Country	15 01 01	No	222.01 paper and cardboard packaging	R12	M	Weighted	Offsite in Ireland	Thomsons Recycling, WFP-DC-10-0021-02	Road, Parkwest Business Park, Dublin 12, Ireland		
Within the Country	15 01 01	No	9.24 paper and cardboard packaging	R12	M	Weighted	Offsite in Ireland	Panda, W0039-02	Cross, Ballymount, Dublin 22, Ireland		
Within the Country	15 01 02	No	3.12 plastic bottles	R12	M	Weighted	Offsite in Ireland	Panda, W0039-02	Cross, Ballymount, Dublin 22, Ireland		
Within the Country	15 01 02	No	15.72 plastic bottles	R12	M	Weighted	Offsite in Ireland	Thomsons Recycling, WFP-DC-10-0021-02	Road, Parkwest Business Park, Dublin 12, Ireland		
Within the Country	15 01 02	No	2.4 plastic packaging	R12	M	Weighted	Offsite in Ireland	Oxigen, W0152-03	Robnhood Industrial Estate, Ballymount, Dublin 22, Ireland		
Within the Country	15 01 02	No	35.4 plastic packaging	R12	M	Weighted	Offsite in Ireland	Thomsons Recycling, WFP-DC-10-0021-02	Road, Parkwest Business Park, Dublin 12, Ireland		
Within the Country	15 01 02	No	6.85 plastic packaging	R12	M	Weighted	Offsite in Ireland	Panda, W0039-02	Cross, Ballymount, Dublin 22, Ireland		
Within the Country	15 01 04	No	17.74 metallic packaging	R12	M	Weighted	Offsite in Ireland	Thomsons Recycling, WFP-DC-10-0021-02	Road, Parkwest Business Park, Dublin 12, Ireland		
Within the Country	15 01 04	No	0.46 metallic packaging	R12	M	Weighted	Offsite in Ireland	Oxigen, W0208-01	Ballymount Industrial Estate, Ballymount, Dublin 22, Ireland		
Within the Country	15 01 04	No	3.1 metallic packaging	R12	M	Weighted	Offsite in Ireland	Panda, W0039-02	Cross, Ballymount, Dublin 22, Ireland		
Within the Country	15 01 06	No	3.2 composite packaging	R12	M	Weighted	Offsite in Ireland	Thomsons Recycling, WFP-DC-10-0021-02	Road, Parkwest Business Park, Dublin 12, Ireland		
Within the Country	15 01 07	No	58.7 glass packaging	R12	M	Weighted	Offsite in Ireland	Glassco, WCP-DC-10-1257-01	Unit 4 Oberstown Ind Est, Naas, Co. Kildare, Ireland		
Within the Country	15 01 07	No	73.59 glass packaging	R12	M	Weighted	Offsite in Ireland	Glassco, WCP-DC-10-1257-01	Unit 4 Oberstown Ind Est, Naas, Co. Kildare, Ireland		
Within the Country	15 01 07	No	73.61 glass packaging	R12	M	Weighted	Offsite in Ireland	Glassco, WCP-DC-10-1257-01	Unit 4 Oberstown Ind Est, Naas, Co. Kildare, Ireland		
Within the Country	15 01 07	No	6.38 glass packaging	R12	M	Weighted	Offsite in Ireland	Oxigen, W0208-01	Ballymount Industrial Estate, Ballymount, Dublin 22, Ireland		
Within the Country	16 05 04	Yes	7.23 (hazardous) containing dangerous substances	R12	M	Weighted	Offsite in Ireland	Calor Gas	Long Mile Road, Dublin 12, Ireland		
Within the Country	16 06 01	Yes	1.62 lead batteries	R12	M	Weighted	Offsite in Ireland	Silcot Hill WWMF, W0214-01	Kilcullen Co. Kildare, Ireland		
Within the Country	16 06 01	Yes	16.99 lead batteries	R12	M	Weighted	Offsite in Ireland	Enva Ireland Ltd, W0184-01	Atlas Environmental Ireland, Imvel, Crommenan Industrial Estate, Portlaoise, Ireland		
Within the Country	17 08 02	No	gypsum-based construction materials other than those mentioned in 17 08 01	R12	M	Weighted	Offsite in Ireland	Thomsons Recycling, WFP-DC-10-0021-02	Road, Parkwest Business Park, Dublin 12, Ireland		
Within the Country	17 08 02	No	gypsum-based construction materials other than those mentioned in 17 08 01	R12	M	Weighted	Offsite in Ireland	Oxigen, W0208-01	Ballymount Industrial Estate, Ballymount, Dublin 22, Ireland		
Within the Country	19 07 03	No	landfill leachate other than those mentioned in 19 07 02	D8	M	Volume Calculation	Offsite in Ireland	Dun Laoghaire Rathdown County Council, D0038-01	Shanganagh Waste Water Treatment Plant, Dun Laoghaire, Ireland		
Within the Country	20 01 01	No	8.4 paper and cardboard	R12	M	Weighted	Offsite in Ireland	Oxigen, W0208-01	Unit 51, Henry Road, Parkwest Business Park, Dublin 12, Ireland		
Within the Country	20 01 01	No	254.98 paper and cardboard	R12	M	Weighted	Offsite in Ireland	Thomsons Recycling, WFP-DC-10-0021-02	Road, Parkwest Business Park, Dublin 12, Ireland		
Within the Country	20 01 01	No	13.98 paper and cardboard	R12	M	Weighted	Offsite in Ireland	Panda, W0039-02	Cross, Ballymount, Dublin 22, Ireland		
Within the Country	20 01 01	No	3.28 paper and cardboard	R12	M	Weighted	Offsite in Ireland	Oxigen, W0152-03	Robnhood Industrial Estate, Ballymount, Dublin 22, Ireland		
Within the Country	20 01 02	No	3.12 glass	R12	M	Weighted	Offsite in Ireland	Oxigen, W0208-01	Ballymount Industrial Estate, Ballymount, Dublin 22, Ireland		
Within the Country	20 01 02	No	18.38 glass	R12	M	Weighted	Offsite in Ireland	Thomsons Recycling, WFP-DC-10-0021-02	Road, Parkwest Business Park, Dublin 12, Ireland		
Within the Country	20 01 11	No	269.32 textiles	R12	M	Weighted	Offsite in Ireland	Textile Recycling, WPR-0142	24, Ireland		
Within the Country	20 01 21	Yes	fluorescent tubes and other mercury-0.22 containing waste	R12	M	Weighted	Offsite in Ireland	Irish Lamp, WFP-KE-14-0072-01	Woodstock Ind Est, Athy, Co. Kildare, Ireland		
Within the Country	20 01 21	Yes	fluorescent tubes and other mercury-1.56 containing waste	R12	M	Weighted	Offsite in Ireland	KMK, WCP-OY-08-6607-01	Cappincur Ind Est, Dangan Road, Tulamore, Co. Offaly, Ireland		
Within the Country	20 01 25	No	4.12 edible oil and fat	R12	M	Weighted	Offsite in Ireland	Frylite, xxx	xxxx,xxxx,xxxx, Ireland		
Within the Country	20 01 26	Yes	oil and fat other than those mentioned in 20 01 25	R12	M	Weighted	Offsite in Ireland	Enva Ireland Ltd, W0184-01	Atlas Environmental Ireland, Imvel, Crommenan Industrial Estate, Portlaoise, Ireland		
Within the Country	20 01 27	Yes	paint, ink, adhesives and resins containing dangerous substances	R12	M	Weighted	Offsite in Ireland	Enva Ireland Ltd, W0184-01	Atlas Environmental Ireland, Imvel, Crommenan Industrial Estate, Portlaoise, Ireland		
Within the Country	20 01 27	Yes	paint, ink, adhesives and resins containing dangerous substances	R12	M	Weighted	Offsite in Ireland	SRCL, W0054-02	SRCL Limited, Unit 1 A Allied Industrial Estate, Kilmacanogue, Dublin, 10, Ireland		
Within the Country	20 01 28	No	0.84 those mentioned in 20 01 27	R12	M	Weighted	Offsite in Ireland	Rediscovery Centre	Unit 4 Shangan Court, Shangan Road, Ballymount, Dublin 9, Ireland		
Within the Country	20 01 33	Yes	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these	R12	M	Weighted	Offsite in Ireland	KMK, WCP-OY-08-6607-01	Cappincur Ind Est, Dangan Road, Tulamore, Co. Offaly, Ireland		
Within the Country	20 01 35	Yes	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components	R12	M	Weighted	Offsite in Ireland	Racflife Transport, WCP-DC-08-1130-01	Ballytrahearn, St Margarets, Co. Dublin, Ireland		
Within the Country	20 01 36	No	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R12	M	Weighted	Offsite in Ireland	KMK, WCP-OY-08-6607-01	Cappincur Ind Est, Dangan Road, Tulamore, Co. Offaly, Ireland		
Within the Country	20 01 36	No	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R12	M	Weighted	Offsite in Ireland	KMK, WCP-OY-08-6607-01	Cappincur Ind Est, Dangan Road, Tulamore, Co. Offaly, Ireland		
Within the Country	20 01 38	No	83.15 wood other than that mentioned in 20 01 37	R12	M	Weighted	Offsite in Ireland	Oxigen, W0208-01	Ballymount Industrial Estate, Ballymount, Dublin 22, Ireland		
Within the Country	20 01 38	No	536.84 wood other than that mentioned in 20 01 37	R12	M	Weighted	Offsite in Ireland	Kilmaham Wood Compost Facility, W0195-02	Kilmaham Wood, Ballynagarigan, Co. Meath, Ireland		
Within the Country	20 01 40	No	3.7 bikes	R4	M	Weighted	Offsite in Ireland	Rothar	Patrick Street, 91, Dun Laoghaire Co. Dublin, Ireland		
Within the Country	20 01 40	No	8.09 lawnmowers	R4	M	Weighted	Offsite in Ireland	Mower City, Mower City	8, Ireland		
Within the Country	20 01 40	No	33.24 metals	R4	M	Weighted	Offsite in Ireland	Oxigen, W0208-01	Ballymount Industrial Estate, Ballymount, Dublin 22, Ireland		
Within the Country	20 01 40	No	0.68 metals	R4	M	Weighted	Offsite in Ireland	Thomsons Recycling Centre, W0044-02	Road, Ballyfermot, Dublin, 9, Ireland		
Within the Country	20 02 01	No	183.14 biodegradable waste	R3	M	Weighted	Offsite in Ireland	Oxigen, W0208-01	Unit 51, Henry Road, Parkwest Business Park, Dublin 12, Ireland		
Within the Country	20 02 01	No	1746.79 biodegradable waste	R3	M	Weighted	Offsite in Ireland	Ball Na Mairg Compost Facility, W0198-01	Ballyna Mairg, Kildare, Ireland		
Within the Country	20 02 01	No	1367.29 biodegradable waste	R3	M	Weighted	Offsite in Ireland	Enrich Composting, WFP/MW08/00 0101	Kilcock, Meath, Ireland		
Within the Country	20 03 01	No	50.76 mixed municipal waste	R12	M	Weighted	Offsite in Ireland	Oxigen, W0152-03	Robnhood Industrial Estate, Ballymount, Dublin 22, Ireland		
Within the Country	20 03 01	No	140.54 mixed municipal waste	R12	M	Weighted	Offsite in Ireland	Thomsons Recycling Centre, W0044-02	Road, Ballyfermot, Dublin, 9, Ireland		
Within the Country	20 03 07	No	40.42 bulky waste	R12	M	Weighted	Offsite in Ireland	Oxigen, W0208-01	Ballymount Industrial Estate, Ballymount, Dublin 22, Ireland		
Within the Country	20 03 07	No	1164.55 bulky waste	R12	M	Weighted	Offsite in Ireland	Thomsons Recycling Centre, W0044-02	Road, Ballyfermot, Dublin, 9, Ireland		
Within the Country	20 03 07	No	16.24 bulky waste	R12	M	Weighted	Offsite in Ireland	Oxigen, W0152-03	Robnhood Industrial Estate, Ballymount, Dublin 22, Ireland		
Within the Country	20 03 01	No	13.08 mixed municipal waste	R12	M	Weighted	Offsite in Ireland	Oxigen, W0208-01	Ballymount Industrial Estate, Ballymount, Dublin 22, Ireland		
Within the Country	20 03 07	No	62.9 bulky waste	R12	M	Weighted	Offsite in Ireland	Ena Metals Recycling Ltd, WFP-DC-12-0003-01	Stoney Road, 13A, Glasnevin, Dublin 11, Ireland		
Within the Country	08 03 99	No	0.92 wastes not otherwise specified	R12	M	Weighted	Offsite in Ireland	Kilderson Printers ,WCPEX-DC-08-11-01	17 The Sycamores, Steadbrook Hill, Blackrock, Co. Dublin WCPEX-DC-08-11-01, Ireland		
Within the Country	15 01 02	No	6.22 plastic packaging	R12	M	Weighted	Offsite in Ireland	Rahab Recycling, WFP-DS-10-0008-03	Unit 17, Brookhill Road, Talaght, Dublin 24, Ireland		
Within the Country	15 01 05	No	0.56 composite packaging	R12	M	Weighted	Offsite in Ireland	Oxigen, W0152-03	Robnhood Industrial Estate, Ballymount, Dublin 22, Ireland		
Within the Country	17 08 02	No	gypsum-based construction materials other than those mentioned in 17 08 01	R12	M	Weighted	Offsite in Ireland	Allied Recycling, NWCP012-11002-01	Clonsilla, Corneslow, Navan, Meath, Ireland		
Within the Country	17 08 02	No	gypsum-based construction materials other than those mentioned in 17 08 01	R12	M	Weighted	Offsite in Ireland	Panda, W0039-02	Cross, Ballymount, Dublin 22, Ireland		
Within the Country	17 09 04	No	304.45 09 02 and 17 09 03	R12	M	Weighted	Offsite in Ireland	Thomsons Recycling Centre, W0044-02	Road, Ballyfermot, Dublin, 9, Ireland		
Within the Country	17 09 04	No	16.46 09 02 and 17 09 03	R12	M	Weighted	Offsite in Ireland	Oxigen, W0208-01	Ballymount Industrial Estate, Ballymount, Dublin 22, Ireland		
Within the Country	20 01 25	No	4.12 edible oil and fat	R12	M	Weighted	Offsite in Ireland	Frylite, xxx	xxxx,xxxx,xxxx, Ireland		
Within the Country	20 01 35	Yes	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components	R12	M	Weighted	Offsite in Ireland	Electrical Waste Management Ltd, WFP-DS-09-0012-01	Block 648, Greenough Business Park, Rathcoole, Dublin, Ireland		
Within the Country	20 01 40	No	210.36 metals	R12	M	Weighted	Offsite in Ireland	Murrugh Industrial Recycling, NWCP0-08-01860-02	Estate, Ballynary, Wicklow Town, Co. Wicklow, Ireland		
Within the Country	20 01 40	No	3.34 metals	R12	M	Weighted	Offsite in Ireland	Hammond Lane, NWCP0-09-01184-03	Hammond Lane, Pigeon House, Dublin 22, Ireland		
Within the Country	20 01 40	No	17.28 metals	R12	M	Weighted	Offsite in Ireland	Hammond Lane, NWCP0-09-01184-03	Hammond Lane, Pigeon House, Dublin 22, Ireland		

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