

SELECT cells that are highlighted blue contain a dropdown menu click to select one option from the list

[guidance document link](#) cells that contain underlined text click to access relevant guidance documents for this section

Table heading * table headings followed by a symbol have an associated footnote or instructions

Cells with red indicator in top right corner cells that have a red indicator in the top right corner contain a comment box with further instructions or clarification

Please note an interpretation of results is still required. This should be entered in the additional information/comments boxes within the templates. Please size these boxes appropriately to fit your interpretation, if additional space is required please include an appendix to the AER template and merge it as part of the AER PDF document. The excel template should have all cells sized appropriately so that all text is readable before it is converted to PDF document.

Facility Information Summary	
AER Reporting Year	2015
Licence Register Number	W0070-01
Name of site	Benduff Landfill Site
Site Location	Benduff, Rosscarbery, Co. Cork
NACE Code	3821
Class/Classes of Activity	Installation for the disposal of non hazardous
National Grid Reference (6E, 6 N)	(52E, 53N)
<p>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 <u>listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.</u></p>	
<p><u>Description of Activities on Site during 2015:</u> The Facility at Benduff is a closed Landfill. Deposition of waste at the landfill ceased in April 2004 and the final capping works were completed by Q4 2004. The main activity at the site during 2015 was the extraction of gas from the closed landfill (extracted gas is flared on-site).</p> <p><u>Exceedances of Licence Limits during 2015:</u> None.</p> <p><u>Overview of Licence Compliance during 2015:</u> There was 1 non-compliance issued against the licence in 2015 which related to the late submission of the Report on Compliance with the EO (Groundwater) Regulations.</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.

Signature: <u>Mairead Hales</u>	
Group/Facility manager	Date: <u>03/03/2016</u>
(or nominated, suitably qualified and experienced deputy)	

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Answer all questions and complete all tables where relevant

Additional information

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

Yes	Current flare installation is a pre-aerated open flare of 50-500 cubic meter per hour capacity. Emissions monitoring is not possible from such an installation.
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Periodic/Non-Continuous Monitoring

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

N/A	
-----	--

3 Was all monitoring carried out in accordance with EPA guidance [Basic air monitoring](#) note AG2 and using the basic air monitoring checklist? [checklist](#)

[AGN2](#)

N/A	
-----	--

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 therof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		

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

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)

No	
----	--

5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below

SELECT	
--------	--

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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	
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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
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AIR-summary template					Lic No:	W0070-01		Year	2015	
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:

W0070-01

Year

2015

Additional information

Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 1 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 2 on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections

No	
Yes	SW1, SW4 & SW5 - Bi-annual visual inspections - No evidence of contamination recorded

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
SW1	upstream		pH	15/01/2015	N/A	N/A	6.80	pH units	yes	
SW1	upstream		Conductivity	15/01/2015	N/A	N/A	144.00	µS/cm @20oC	yes	
SW1	upstream		Dissolved Oxygen	15/01/2015	N/A	N/A	8.50	mg/L	yes	
SW1	upstream		Ammonia (as N)	15/01/2015	N/A	N/A	0.02	mg/L	yes	
SW1	upstream		BOD	15/01/2015	N/A	N/A	2.00	mg/L	yes	
SW1	upstream		COD	15/01/2015	N/A	N/A	14.00	mg/L	yes	
SW1	upstream	Chlorides (as Cl)		15/01/2015	N/A	N/A	25.35	mg/L	yes	
SW1	upstream		Suspended Solids	15/01/2015	N/A	N/A	9.00	mg/L	yes	
SW1	upstream		Boron	09/04/2015	N/A	N/A	0.03	mg/L	yes	
SW1	upstream		Calcium	09/04/2015	N/A	N/A	10.50	mg/L	yes	
SW1	upstream	Cadmium and compounds (as Cd)		09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW1	upstream	Chromium and compounds (as Cr)		09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW1	upstream	Copper and compounds (as Cu)		09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW1	upstream		Iron	09/04/2015	N/A	N/A	41.60	µg/L	yes	
SW1	upstream	Mercury and compounds (as Hg)		09/04/2015	N/A	N/A	<10.00	mg/L	yes	
SW1	upstream		Potassium	09/04/2015	N/A	N/A	<2.00	mg/L	yes	
SW1	upstream		Magnesium	09/04/2015	N/A	N/A	3.11	mg/L	yes	
SW1	upstream		Manganese (as Mn)	09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW1	upstream		Sodium	09/04/2015	N/A	N/A	13.50	mg/L	yes	
SW1	upstream	Nickel and compounds (as Ni)		09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW1	upstream	Total phosphorus		09/04/2015	N/A	N/A	0.02	mg/L	yes	
SW1	upstream	Lead and compounds (as Pb)		09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW1	upstream		Sulphate	09/04/2015	N/A	N/A	6.30	mg/L SO ₄	yes	
SW1	upstream		Total Oxidised Nitrogen (TON)	09/04/2015	N/A	N/A	1.65	mg/L N	yes	
SW1	upstream	Zinc and compounds (as Zn)		09/04/2015	N/A	N/A	73.60	µg/L	yes	
SW1	upstream		Alkalinity	09/04/2015	N/A	N/A	15.67	mg/L	yes	
SW1	upstream		Ortho-phosphate (as PO ₄)	09/04/2015	N/A	N/A	0.25	mg/L PO ₄	yes	
SW4	downstream		pH	15/01/2015	N/A	N/A	7.9	pH units	yes	
SW4	downstream		Conductivity	15/01/2015	N/A	N/A	354.00	µS/cm @20oC	yes	
SW4	downstream		Dissolved Oxygen	15/01/2015	N/A	N/A	8.80	mg/L	yes	
SW4	downstream		Ammonia (as N)	15/01/2015	N/A	N/A	0.04	mg/L	yes	
SW4	downstream		BOD	15/01/2015	N/A	N/A	2.00	mg/L	yes	
SW4	downstream		COD	15/01/2015	N/A	N/A	16.00	mg/L	yes	
SW4	downstream	Chlorides (as Cl)		15/01/2015	N/A	N/A	39.52	mg/L	yes	
SW4	downstream		Suspended Solids	15/01/2015	N/A	N/A	6.00	mg/L	yes	
SW4	downstream		Boron	09/04/2015	N/A	N/A	0.04	mg/L	yes	
SW4	downstream		Calcium	09/04/2015	N/A	N/A	53.80	mg/L	yes	
SW4	downstream	Cadmium and compounds (as Cd)		09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW4	downstream	Chromium and compounds (as Cr)		09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW4	downstream	Copper and compounds (as Cu)		09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW4	downstream		Iron	09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW4	downstream	Mercury and compounds (as Hg)		09/04/2015	N/A	N/A	<10.00	mg/L	yes	
SW4	downstream		Potassium	09/04/2015	N/A	N/A	5.26	mg/L	yes	
SW4	downstream		Magnesium	09/04/2015	N/A	N/A	7.85	mg/L	yes	
SW4	downstream		Manganese (as Mn)	09/04/2015	N/A	N/A	21.50	µg/L	yes	
SW4	downstream		Sodium	09/04/2015	N/A	N/A	17.20	mg/L	yes	
SW4	downstream	Nickel and compounds (as Ni)		09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW4	downstream	Total phosphorus		09/04/2015	N/A	N/A	0.05	mg/L	yes	
SW4	downstream	Lead and compounds (as Pb)		09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW4	downstream		Sulphate	09/04/2015	N/A	N/A	13.97	mg/L SO ₄	yes	
SW4	downstream		Total Oxidised Nitrogen (TON)	09/04/2015	N/A	N/A	4.59	mg/L N	yes	
SW4	downstream	Zinc and compounds (as Zn)		09/04/2015	N/A	N/A	28.70	µg/L	yes	
SW4	downstream		Alkalinity	09/04/2015	N/A	N/A	90.42	mg/L	yes	
SW4	downstream		Ortho-phosphate (as PO ₄)	09/04/2015	N/A	N/A	0.02	mg/L PO ₄	yes	
SW5	downstream		pH	15/01/2015	N/A	N/A	7.30	pH units	yes	
SW5	downstream		Conductivity	15/01/2015	N/A	N/A	139.00	µS/cm @20oC	yes	
SW5	downstream		Dissolved Oxygen	15/01/2015	N/A	N/A	9.15	mg/L	yes	

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SW5	downstream		Ammonia (as N)	15/01/2015	N/A	N/A	0.01	mg/L	yes	
SW5	downstream		BOD	15/01/2015	N/A	N/A	<1.00	mg/L	yes	
SW5	downstream		COD	15/01/2015	N/A	N/A	<1.00	mg/L	yes	
SW5	downstream	Chlorides (as Cl)		15/01/2015	N/A	N/A	26.16	mg/L	yes	
SW5	downstream		Suspended Solids	15/01/2015	N/A	N/A	8.00	mg/L	yes	
SW5	downstream		Boron	09/04/2015	N/A	N/A	0.02	mg/L	yes	
SW5	downstream		Calcium	09/04/2015	N/A	N/A	9.76	mg/L	yes	
SW5	downstream		Cadmium and compounds (as Cd)	09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW5	downstream		Chromium and compounds (as Cr)	09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW5	downstream		Copper and compounds (as Cu)	09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW5	downstream		Iron	09/04/2015	N/A	N/A	20.40	µg/L	yes	
SW5	downstream	Mercury and compounds (as Hg)		09/04/2015	N/A	N/A	<10.00	mg/L	yes	
SW5	downstream		Potassium	09/04/2015	N/A	N/A	<2.00	mg/L	yes	
SW5	downstream		Magnesium	09/04/2015	N/A	N/A	3.11	mg/L	yes	
SW5	downstream		Manganese (as Mn)	09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW5	downstream		Sodium	09/04/2015	N/A	N/A	13.60	mg/L	yes	
SW5	downstream	Nickel and compounds (as Ni)		09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW5	downstream		Total phosphorus	09/04/2015	N/A	N/A	0.03	mg/L	yes	
SW5	downstream		Lead and compounds (as Pb)	09/04/2015	N/A	N/A	<20.00	µg/L	yes	
SW5	downstream		Sulphate	09/04/2015	N/A	N/A	6.40	mg/L SO ₄	yes	
SW5	downstream		Total Oxidised Nitrogen (TON)	09/04/2015	N/A	N/A	1.06	mg/L N	yes	
SW5	downstream		Zinc and compounds (as Zn)	09/04/2015	N/A	N/A	86.30	µg/L	yes	
SW5	downstream		Alkalinity	09/04/2015	N/A	N/A	17.97	mg/L	yes	
SW5	downstream		Ortho-phosphate (as PO ₄)	09/04/2015	N/A	N/A	0.01	mg/L PO ₄	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)

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

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

Additional information

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

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision therof ^{Note 2}	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
	SELECT	SELECT	discrete		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT			

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

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

Continuous monitoring

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

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

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

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

Additional Information

Table W4: Summary of average emissions -continuous monitoring

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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
	SELECT	SELECT		SELECT	SELECT	SELECT					
	SELECT	SELECT		SELECT	SELECT	SELECT					

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

Table WS: 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	
No	
1	
1	
0	
N/A	
N/A	
N/A	
N/A	
Yes	
Yes	
N/A	

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 are all structures tested in line with BS8007/EPA Guidance?
 15 Are channels/transfer systems to remote containment systems tested?
 17 Are channels/transfer systems compliant in both integrity and available volume?

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 which have not been tested within the integrity test period as specified**
- 1 Please provide integrity testing frequency period
- *please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

SELECT	
SELECT	

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type 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:	W0070-01	Year	2015
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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 interpretation as an additional section in this AER GW quality is in line with previous years. Groundwater quality is impacted by the presence of a very weak leachate in the immediate vicinity of the site. However, the impact reduces with distance away from the landfill most likely as a result of dilution effects. Monitoring results indicate that the landfill is not impacting on surface water quality downstream of the landfill. The Tier 3 Risk Assessment indicates that the landfill site does not present a significant environmental risk to off-site receptors and recommends that the groundwater monitoring programme should continue to be used to determine if the impacts on groundwater are reducing over time as leachate generation further reduces. Monitoring wells MW-2 and MW-3 are used as compliance monitoring wells. Compliance monitoring is undertaken for pCOCs ammonia, chloride and manganese.
2	Are you required to carry out soil monitoring as part of your licence requirements?	no	
3	Do you extract groundwater for use on site? If yes please specify use in comment section	no	
4	Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below.	Groundwater monitoring template yes	
5	Is the contamination related to operations at the facility (either current and/or historic)	yes	
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	yes	
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?	no	
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?	yes	

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SW EQS	Upward trend in pollutant concentration over last 5 years of monitoring data
09/04/2015	MW3	Ammonia	konelab aquakem SOP 2057	Quarterly	0.36	0.22	mg/l	0.065-0.175		no
09/04/2015	MW3	Conductivity	Electrometry SOP 2076	Quarterly	210.00	197.00	uS/cm20°C	800-1875		no
09/04/2015	MW3	pH	Electrometry SOP 2004	Quarterly	6.50	6.25	pH units			no
09/04/2015	MW3	Temperature	Temp. Probe	Quarterly	13.90	11.13	Deg. C			no
09/04/2015	MW3	Chloride	konelab aquakem SOP 2065	Quarterly	25.11	23.32	mg/l	24-187.5		no
09/04/2015	MW3	Dissolved Oxygen	Oxygen Meter SOP 2006	Quarterly	6.10	5.39	mg/l O2			no
09/04/2015	MW3	Potassium	ICP-MS	Quarterly	4.66	3.31	mg/l			no
09/04/2015	MW3	Sodium	ICP-MS	Quarterly	20.30	18.58	mg/l	150		no
09/04/2015	MW3	Total Oxidised Nitrogen	konelab aquakem SOP 2058	Quarterly	18.59	5.19	mg/l			no
09/04/2015	MW3	Total Organic Carbon	Oxidation & Colourimetry	Quarterly	61.00	17.88	mg/l			no
09/04/2015	MW3	Phenols	Not Known	Quarterly	0.003	0.002	mg/l			no
09/04/2015	MW3	Boron	ICP-MS	Annual	0.03	N/A	mg/l	0.75		no
09/04/2015	MW3	Cadmium	ICP-MS	Annual	25.00	N/A	ug/l			no
09/04/2015	MW3	Calcium	ICP-MS	Annual	15.10	N/A	mg/l			no
09/04/2015	MW3	Chromium	ICP-MS	Annual	<20.00	N/A	ug/l	37.5		no

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09/04/2015	MW3	Copper	ICP-MS	Annual	<20.00	N/A	ug/l	1500	no
09/04/2015	MW3	Iron	ICP-MS	Annual	625.00	N/A	ug/l		no
09/04/2015	MW3	Lead	ICP-MS	Annual	<20.00	N/A	ug/l	18.75	no
09/04/2015	MW3	Magnesium	ICP-MS	Annual	4.18	N/A	mg/l		no
09/04/2015	MW3	Zinc	ICP-MS	Annual	1976.00	N/A	ug/l		no
09/04/2015	MW3	Mercury	ICP-MS	Annual	<10.00	N/A	mg/l	0.00075	no
09/04/2015	MW3	Manganese	ICP-MS	Annual	3820.00	N/A	ug/l		no
09/04/2015	MW3	Phosphate	konelab aquakem SOP 2061	Annual	0.01	N/A	mg/l PO ₄	0.035	no
09/04/2015	MW3	Cyanide - Tot	Steam Distillation & Colourimetry	Annual	3.00	N/A	ug/l	37.5	no
09/04/2015	MW3	Flouride	Ion Selective Electrode	Annual	0.07	N/A	mg/l		no
09/04/2015	MW3	Sulphate	konelab aquakem SOP 2062	Annual	11.28	N/A	mg/l SO ₄	187.5	no
09/04/2015	MW3	Total Alkalinity	konelab aquakem SOP 2064	Annual	48.34	N/A	mg/l		no
09/04/2015	MW3	Total Phosphorous	ICP-MS	Annual	0.04	N/A	mg/l P		no
09/04/2015	MW3	Total Dissolved Solids	Filt./Evap. & Drying @ 105°C	Annual	103.00	N/A	mg/l		no
09/04/2015	MW3	E. Coli	Quanti-tray SOP 2090	Annual	<1	N/A	MPN/100ml		no
09/04/2015	MW3	Total Coliforms	Quanti-tray SOP 2090	Annual	488.00	N/A	MPN/100ml		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*	SW EQS	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
09/04/2015	MW1	Ammonia	konelab aquakem SOP 2057	Quarterly	4.05	3.29	mg/l	0.065-0.175		no
09/04/2015	MW1	Conductivity	Electrometry SOP 2076	Quarterly	904.00	645.50	uS/cm20°C	800-1875		no
09/04/2015	MW1	pH	Electrometry SOP 2004	Quarterly	6.80	6.58	pH units			no
09/04/2015	MW1	Temperature	Temp. Probe	Quarterly	13.10	11.33	Deg. C			no
09/04/2015	MW1	Chloride	konelab aquakem SOP 2065	Quarterly	45.09	34.90	mg/l	24-187.5		no
09/04/2015	MW1	Dissolved Oxygen	Oxygen Meter SOP 2006	Quarterly	14.10	5.94	mg/l O ₂			no
09/04/2015	MW1	Potassium	ICP-MS	Quarterly	15.10	10.50	mg/l			no
09/04/2015	MW1	Sodium	ICP-MS	Quarterly	31.00	25.20	mg/l	150		no
09/04/2015	MW1	Total Oxidised Nitrogen	konelab aquakem SOP 2058	Quarterly	3.60	1.84	mg/l			no
09/04/2015	MW1	Total Organic Carbon	Oxidation & Colourimetry	Quarterly	8.20	4.15	mg/l			no
09/04/2015	MW1	Phenols	Not Known	Quarterly	0.003	0.002	mg/l			no
09/04/2015	MW1	Boron	ICP-MS	Annual	0.04	N/A	mg/l	0.75		no
09/04/2015	MW1	Cadmium	ICP-MS	Annual	<20.00	N/A	ug/l			no
09/04/2015	MW1	Calcium	ICP-MS	Annual	61.60	N/A	mg/l			no
09/04/2015	MW1	Chromium	ICP-MS	Annual	<20.00	N/A	ug/l	37.5		no
09/04/2015	MW1	Copper	ICP-MS	Annual	<20.00	N/A	ug/l	1500		no
09/04/2015	MW1	Iron	ICP-MS	Annual	21.20	N/A	ug/l			no
09/04/2015	MW1	Lead	ICP-MS	Annual	<20.00	N/A	ug/l	18.75		no
09/04/2015	MW1	Magnesium	ICP-MS	Annual	16.50	N/A	mg/l			no
09/04/2015	MW1	Zinc	ICP-MS	Annual	30.40	N/A	ug/l			no
09/04/2015	MW1	Mercury	ICP-MS	Annual	<10.00	N/A	mg/l	0.00075		no
09/04/2015	MW1	Manganese	ICP-MS	Annual	1696.00	N/A	ug/l			no
09/04/2015	MW1	Phosphate	konelab aquakem SOP 2061	Annual	0.01	N/A	mg/l PO ₄	0.035		no
09/04/2015	MW1	Cyanide - Tot	Steam Distillation & Colourimetry	Annual	2.00	N/A	ug/l	37.5		no
09/04/2015	MW1	Flouride	Ion Selective Electrode	Annual	0.17	N/A	mg/l			no
09/04/2015	MW1	Sulphate	konelab aquakem SOP 2062	Annual	98.72	N/A	mg/l SO ₄	187.5		no
09/04/2015	MW1	Total Alkalinity	konelab aquakem SOP 2064	Annual	113.80	N/A	mg/l			no

Groundwater/Soil monitoring template				Lic No:	W0070-01	Year	2015		
09/04/2015	MW1	Total Phosphorous	ICP-MS	Annual	0.03	N/A	mg/l P	no	
09/04/2015	MW1	Total Dissolved Solids	Filt./Evap. & Drying @ 105°C	Annual	260.00	N/A	mg/l	no	
09/04/2015	MW1	E. Coli	Quanti-tray SOP 2090	Annual	<1	N/A	MPN/100ml	no	
09/04/2015	MW1	Total Coliforms	Quanti-tray SOP 2090	Annual	1.00	N/A	MPN/100ml	no	
09/04/2015	MW2	Ammonia	konelab aquakem SOP 2057	Quarterly	0.11	0.06	mg/l	0.065-0.175	no
09/04/2015	MW2	Conductivity	Electrometry SOP 2076	Quarterly	721.00	595.50	uS/cm20°C	800-1875	no
09/04/2015	MW2	pH	Electrometry SOP 2004	Quarterly	7.60	7.53	pH units		no
09/04/2015	MW2	Temperature	Temp. Probe	Quarterly	13.00	10.98	Deg. C		no
09/04/2015	MW2	Chloride	konelab aquakem SOP 2065	Quarterly	55.39	53.24	mg/l	24-187.5	no
09/04/2015	MW2	Dissolved Oxygen	Oxygen Meter SOP 2006	Quarterly	10.10	5.88	mg/l O2		no
09/04/2015	MW2	Potassium	ICP-MS	Quarterly	3.45	2.35	mg/l		no
09/04/2015	MW2	Sodium	ICP-MS	Quarterly	36.70	30.20	mg/l	150	no
09/04/2015	MW2	Total Oxidised Nitrogen	konelab aquakem SOP 2058	Quarterly	1.75	0.96	mg/l		no
09/04/2015	MW2	Total Organic Carbon	Oxidation & Colourimetry	Quarterly	4.90	2.80	mg/l		no
09/04/2015	MW2	Phenols	Not Known	Quarterly	0.010	0.005	mg/l		no
09/04/2015	MW2	Boron	ICP-MS	Annual	0.03	N/A	mg/l	0.75	no
09/04/2015	MW2	Cadmium	ICP-MS	Annual	<20.00	N/A	ug/l		no
09/04/2015	MW2	Calcium	ICP-MS	Annual	93.50	N/A	mg/l		no
09/04/2015	MW2	Chromium	ICP-MS	Annual	<20.00	N/A	ug/l	37.5	no
09/04/2015	MW2	Copper	ICP-MS	Annual	<20.00	N/A	ug/l	1500	no
09/04/2015	MW2	Iron	ICP-MS	Annual	398.00	N/A	ug/l		no
09/04/2015	MW2	Lead	ICP-MS	Annual	<20.00	N/A	ug/l	18.75	no
09/04/2015	MW2	Magnesium	ICP-MS	Annual	12.60	N/A	mg/l		no
09/04/2015	MW2	Zinc	ICP-MS	Annual	46.10	N/A	ug/l		no
09/04/2015	MW2	Mercury	ICP-MS	Annual	<10.00	N/A	mg/l	0.00075	no
09/04/2015	MW2	Manganese	ICP-MS	Annual	58.20	N/A	ug/l		no
09/04/2015	MW2	Phosphate	konelab aquakem SOP 2061	Annual	0.01	N/A	mg/l PO ₄	0.035	no
09/04/2015	MW2	Cyanide - Tot	Steam Distillation & Colourimetry	Annual	10.00	N/A	ug/l	37.5	no
09/04/2015	MW2	Flouride	Ion Selective Electrode	Annual	0.28	N/A	mg/l		no
09/04/2015	MW2	Sulphate	konelab aquakem SOP 2062	Annual	110.91	N/A	mg/l SO ₄	187.5	no
09/04/2015	MW2	Total Alkalinity	konelab aquakem SOP 2064	Annual	147.49	N/A	mg/l		no
09/04/2015	MW2	Total Phosphorous	ICP-MS	Annual	0.04	N/A	mg/l P		no
09/04/2015	MW2	Total Dissolved Solids	Filt./Evap. & Drying @ 105°C	Annual	304.00	N/A	mg/l		no
09/04/2015	MW2	E. Coli	Quanti-tray SOP 2090	Annual	<1	N/A	MPN/100ml		no
09/04/2015	MW2	Total Coliforms	Quanti-tray SOP 2090	Annual	<1	N/A	MPN/100ml		no
09/04/2015	MW4	Ammonia	konelab aquakem SOP 2057	Quarterly	0.20	0.10	mg/l	0.065-0.175	no
09/04/2015	MW4	Conductivity	Electrometry SOP 2076	Quarterly	191.00	137.25	uS/cm20°C	800-1875	no
09/04/2015	MW4	pH	Electrometry SOP 2004	Quarterly	6.10	5.90	pH units		no
09/04/2015	MW4	Temperature	Temp. Probe	Quarterly	13.30	10.70	Deg. C		no
09/04/2015	MW4	Chloride	konelab aquakem SOP 2065	Quarterly	29.21	20.86	mg/l	24-187.5	no
09/04/2015	MW4	Dissolved Oxygen	Oxygen Meter SOP 2006	Quarterly	7.80	6.46	mg/l O2		no
09/04/2015	MW4	Potassium	ICP-MS	Quarterly	0.64	0.57	mg/l		no
09/04/2015	MW4	Sodium	ICP-MS	Quarterly	18.80	14.21	mg/l	150	no
09/04/2015	MW4	Total Oxidised Nitrogen	konelab aquakem SOP 2058	Quarterly	2.14	1.18	mg/l		no
09/04/2015	MW4	Total Organic Carbon	Oxidation & Colourimetry	Quarterly	6.50	2.80	mg/l		no
09/04/2015	MW4	Phenols	Not Known	Quarterly	0.016	0.005	mg/l		no
09/04/2015	MW4	Boron	ICP-MS	Annual	0.02	N/A	mg/l	0.75	no
09/04/2015	MW4	Cadmium	ICP-MS	Annual	<20.00	N/A	ug/l		no
09/04/2015	MW4	Calcium	ICP-MS	Annual	12.90	N/A	mg/l		no
09/04/2015	MW4	Chromium	ICP-MS	Annual	<20.00	N/A	ug/l	37.5	no
09/04/2015	MW4	Copper	ICP-MS	Annual	<20.00	N/A	ug/l	1500	no

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

		Commentary	
1	ELRA initial agreement status	Not Required	
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	SELECT	
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:	W0070-01	Year	2015
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	Highlighted cells contain dropdown menu click to view	Additional Information
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes Site procedures make up the EMS
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
Reduction of emissions to Air	Maintain/Improve landfill gas extraction regime	Ongoing	Regular & frequent field gas balancing	Individual	Improved Environmental Management Practices
Groundwater protection	Prevent GW/SW contamination	Ongoing	Ongoing analyses of environmental monitoring results to determine if remedial action is necessary	Individual	Improved Environmental Management Practices

Noise monitoring summary report	Lic No: W0070-01	Year	2015
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- 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)

Resource Usage/Energy efficiency summary

Lic No:

W0070-01

Year

2015

Additional information

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

N/A	
No	Cork County Council has energy usage reduction team in operation countywide
N/A	

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	2.859	3.122		
Total Energy Generated (MWHrs)	0	0		
Total Renewable Energy Generated (MWHrs)	0	0		
Electricity Consumption (MWHrs)	2.859	3.122		
Fossil Fuels Consumption:	N/A			
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)				
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

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*	Water Emissions		Water Consumption	
					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								
Surface water								
Public supply								
Recycled water								
Total								

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

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

	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)					

Resource Usage/Energy efficiency summary Lic No: W0070-01 Year 2015

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					

WASTE SUMMARY	Lic No:	W0070-01	Year	2015
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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
N/A	Yes	Yes	Yes	Yes	Yes	No	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 m ² ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					
N/A - Landfill Closed						

*please note this includes daily cover area

Table 6 Leachate-Landfill only

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

SELECT

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

SELECT

Volume of leachate in reporting year(m ³)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH ₄) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments
0					No		

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 m ³	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
CH ₄ - 7041	0	0	No	



Environmental Protection Agency

[Guidance to completing the PRTR workbook](#)

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2015
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1. FACILITY IDENTIFICATION

Parent Company Name	Cork County Council
Facility Name	Benduff Landfill Site
PRTR Identification Number	W0070
Licence Number	W0070-01

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Benduff
Address 2	Rosscarbery
Address 3	
Address 4	
	Cork
Country	Ireland
Coordinates of Location	-9.06927 51.5933
River Basin District	IESW
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Mairead Hales
AER Returns Contact Email Address	Mairead.Hales@CorkCoCo.ie
AER Returns Contact Position	Executive Engineer
AER Returns Contact Telephone Number	021 4276891 (Ext. 7045)
AER Returns Contact Mobile Phone Number	086 6018493
AER Returns Contact Fax Number	023 8858814
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	1
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

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

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

Is it applicable?	No
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) ?	
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This question is only applicable if you are an IPPC or Quarry site

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR						Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
01	Methane (CH4)	C	OTH	LandGEM Modelling	0.0	193351.0	0.0	193351.0	

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO AIR						Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY			
No. Annex II	Name	M/C/E	Method Used		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)

RELEASES TO AIR						Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY			
Pollutant No.	Name	M/C/E	Method Used		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:		Benduff Landfill Site			
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)	198166.0	C	OTH	Landgem	N/A
Methane flared	4815.0	C	OTH	Landfill Gas Survey	500.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	193351.0	C	OTH	LandGEM Modelling	N/A