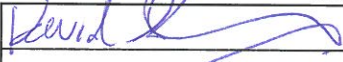


Facility Information Summary	
AER Reporting Year	2012
Licence Register Number	W0028
Name of site	Ballydonagh
Site Location	Ballydonagh, Dublin Rd, Athlone, Co Westmeath.
NACE Code	3821
Class/Classes of Activity	This landfill closed in July 2010 and since then a civic waste facility is operated by Oxigen Environmental for household waste. This waste is transferred off site to licensed facilities.
National Grid Reference (6E, 6 N)	(-)6.22878 53.3496
A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year <b>and an overview of compliance with your licence</b> listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.	This landfill closed in July 2010 and since then a civic waste facility is operated by Oxigen Environmental for household waste. This waste is transferred off site to licensed facilities. The quantity of waste received in 2012 was 1699t. This compares to a figure of 2629t for 2011, a decrease of 35%. The leachate removal decreased from 10242t in 2011 to 6088t in 2012, a decrease of 41%. The last section (1.3 Ha) of the landfill was fully capped in 2012. There were a similiar number of incidents (17) in 2012 as in 2011. There were 12 no. related to perimeter gas levels and 5 no. related to the flare going down.

**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.

	10/4/13
Signature	Date
Group/Facility manager	
(or nominated, suitably qualified and experienced deputy)	

**AIR-summary template** Lic No: W0028 Year 2012

Answer all questions and complete all tables where relevant

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

Additional information	
Yes	Licence requires monitoring for Nox, SO2 and TOC. TOC not carried out in 2012.

**Periodic/Non-Continuous Monitoring**

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

No	
----	--

3 Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? [Basic air monitoring checklist](#) [AGN2](#)

Yes	
-----	--

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

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision 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
Flare stack	Nitrogen oxides (NOx/NO2)	yearly	150	100 % of values < ELV	33	mg/Nm3	yes	Holister Greenline 8000 Flu gas analyser		
Flare stack	Sulphur oxides (SOx/SO2)	Yearly		SELECT	0	SELECT	SELECT	Holister Greenline 8000 Flu gas analyser		
Flare stack	Carbon monoxide (CO)	Yearly	50	100 % of values < ELV	9	mg/Nm3	yes	Holister Greenline 8000 Flu gas analyser		
	SELECT			SELECT		SELECT	SELECT	SELECT		

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

<b>AIR-summary template</b>	Lic No: W0028	Year	2012
<b>Continuous Monitoring</b>			

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 3 and compare it to its relevant Emission Limit Value (ELV)

5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table 3 below

6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?

7 Did your site experience any abatement system bypasses? If yes please detail them in table 4 below

**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
	<input type="text" value="SELECT"/>			<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>					
	<input type="text" value="SELECT"/>			<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>					
	<input type="text" value="SELECT"/>			<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>					
	<input type="text" value="SELECT"/>			<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>					
	<input type="text" value="SELECT"/>			<input type="text" value="SELECT"/>	<input type="text" value="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

<b>AIR-summary template</b>		Lic No: W0028	Year 2012					
<b>Solvent use and management on site</b>								
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					
<b>Table A4: Solvent Management Plan Summary</b>		Please refer to linked solvent regulations to complete table 5 and 6						
<b>Total VOC Emission limit value</b>		<a href="#">Solvent regulations</a>						
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site	Total VOC emissions as %of solvent					
			Total Emission Limit Value (ELV) in licence or any revision thereof					
			Compliance					
			SELECT					
			SELECT					
<b>Table A5: Solvent Mass Balance summary</b>								
	(I) Inputs (kg)		(O) Outputs (kg)					
Solvent	(I) Inputs (kg)	Organic solvent emission in	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g. by-	Solvents destroyed onsite through	Total emission of Solvent to air (kg)
								Total

**AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)** Lic No: W0028 Year 2012

Additional information	
<p>1 Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If <b>you do not have</b> licensed emissions you <u>only</u> need to complete table W1 and or W2 for surface water analysis and visual inspections</p>	<p>No There are 3 surface water monitoring points - SW1 is US of the site. SW2 - is DS of the site and SW3 is on a small drain (dry in fine weather) that comes from beside the landfill.</p>
<p>2 Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising <u>only any evidence of contamination noted during visual inspections</u></p>	<p>Yes No evidence of contamination</p>

**Table W1 Surface 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	SELECT	Ammonia (N)	half yearly		SELECT	<0.02 - 0.06	mg/l	SELECT	Complies with A1 values as set out in the EC (Quality of Surface Water Intended for the Abstraction of Drinking Water) Regulations, 1988[S.I. No. 294 of 1989].
SW1	upstream		BOD	half yearly			1 - 3	mg/l		Complies with A1
SW1	upstream		Chloride	half yearly			17.6 - 19.2	mg/l		Complies with A1
SW2	downstream		Ammonia (N)	half yearly			0.13 - 0.2	mg/l		Complies with A2
SW2	downstream		BOD	half yearly			1.5 - <2	mg/l		Complies with A1
SW3	downstream		Chloride	half yearly			20.9 - 21.5	mg/l		Complies with A1
SW3	downstream		Ammonia (N)	half yearly			0.08 - 0.3	mg/l		Complies with A2
SW3	downstream		BOD	half yearly			2 - 4	mg/l		Complies with A1
SW3	downstream	SELECT	S.Solids	half yearly	35	All values < ELV	1 - 19	mg/l	yes	Complies with A1

\*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)**

<p>3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below</p>	<p>SELECT</p>	<p>Additional information</p>
<p>4 Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box</p>	<p>External /Internal Lab Quality checklist Assessment of results checklist</p> <p>SELECT</p>	

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

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

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

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

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

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

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

**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
	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>		<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>					
	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>		<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>					

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?
						<input type="text" value="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
- 1
  - 2 Please provide integrity testing frequency period  
Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)
  - 3
  - 4 How many bunds are on site?
  - 5 How many of these bunds have been tested witin the required test schedule?
  - 6 How many mobile bunds are on site?
  - 7 Are the mobile bunds included in the bund test schedule?
  - 8 How many of these mobile bunds have been tested witin the required test schedule?
  - 9 How many sumps on site are included in the integrity test schedule?
  - 10 How many of these sumps are integrity tested within the test schedule?  
**Please list any sump integrity failures in table B1**
  - 11 Do all sumps and chambers have high level liquid alarms?
  - 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?

Yes	2 No. leachate holding tanks. Observation of leachate levels in both tanks indicate that there are No leaks.
3 years	
No	
0	
0	
0	
SELECT	
No	1 leachate tank has alarm
Yes	

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

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

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

- Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance? [bunding and storage quicklinks](#)
- 14
  - 15 Are channels/transfer systems to remote containment systems tested?
  - 16 Are channels/transfer systems compliant in both integrity and available volume?

Commentary

SELECT	
SELECT	
SELECT	

**Pipeline/underground structure testing**

- Are you required by your licence to undertake integrity testing on underground structures e.g. pipelines or sumps etc ? if yes please fill out table 2 below listing all underground structures and pipelines on site **which failed the integrity test**
- 1
  - 2 Please provide integrity testing frequency period

No	
SELECT	

**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:

W0028

Year

2012

	Comments
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	yes 4 No. boreholes monitored, 1 upgradient and 3 downgradient.
2 Are you required to carry out soil monitoring as part of your licence requirements?	no
3 Do you extract groundwater for use on site? If yes please specify use in comment section	yes For site office and outside taps, not for drinking.
4 Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12	possible Some groundwater boreholes have elevated levels of ammonia and presence of F.Coli and T. Coliforms.
5 Is the contamination related to operations at the facility (either current and/or historic)	Possible
6 Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	yes The landfill has been fully capped and leachate is removed as required.
7 Please specify the proposed time frame for the remediation strategy	SELECT
8 Is there a licence condition to carry out/update ELRA for the site?	yes
9 Has any type of risk assessment been carried out for the site?	yes
10 Has a Conceptual Site Model been developed for the site?	no
11 Have potential receptors been identified on and off site?	yes
12 Is there evidence that contamination is migrating offsite?	no Nearby private wells are monitored - some Coliform presence but low ammonia.

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTVs*	IGV	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
Half yearly	BH7	Ammonia (N)		half yearly	0.55	0.405	mg/l		IGV	1000	yes
Half yearly	BH7	TOC		half yearly	<3	<3	mg/l		IGV	0	No
Half yearly	BH7	Conductivity		half yearly	598	596	us/cm		IGV	12	no
Half yearly	BH7	E. Coli		half yearly	1	<1	No/100mls		IGV	0	no
							SELECT				SELECT

.+ where average indicates arithmetic mean

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

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTVs*	IGV	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
Half yearly	BH1	Ammonia (N)		half yearly	0.31	0.24	mg/l		IGV	-11	no
Half yearly	BH1	TOC		half yearly	<3	<3	mg/l		IGV	0	no
Half yearly	BH1	Conductivity		half yearly	823	766	us/cm		IGV	20	no



Groundwater/Soil monitoring template											
				Lic No:	W0028	Year				2012	
Half yearly	BH1	E. Coli		half yearly	0	0	No/100mls		IGV	0	no
Half yearly	BH5	Ammonia (N)		half yearly	3.9	3.1	mg/l		IGV	33	no
Half yearly	BH5	TOC		half yearly	3.54	3.54	mg/l		IGV	120	no
Half yearly	BH5	Conductivity		half yearly	976	953	us/cm		IGV	22	yes
Half yearly	BH5	E. Coli		half yearly	0	0	No/100mls		IGV	0	no
Half yearly	BH8	Ammonia (N)		half yearly	0.4	0.34	mg/l		IGV	36	yes
Half yearly	BH8	TOC		half yearly	<3	<3	mg/l		IGV	0	no
Half yearly	BH8	Conductivity		half yearly	568	565	us/cm		IGV	8	yes
Half yearly	BH8	E. Coli		half yearly	0	0	No/100mls		IGV	0	no

\* please note exceedance of a relevant Groundwater threshold value (GTV) at a representative monitoring point does not indicate non compliance, an exceedance triggers further investigation to confirm whether the criteria for poor groundwater chemical status are being met.

\*\*Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS). If the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS)

[Groundwater regulations](#) [Drinking water \(private supply\) standards](#)  
[Surface water EQS](#) [GTV's](#) [Drinking water \(public supply\) standards](#)

**Groundwater/Soil monitoring template**

Lic No:

W0028

Year

2012

**Table 3: Soil results**

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

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

## Environmental Liabilities template

Lic No:

W0028

Year

2012

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

		Commentary
1	ELRA initial agreement status	Required but not submitted Ballydonagh is an engineered landfill with a sealed under liner. The landfill is closed and it is permanently capped. Leachate is removed as required from the landfill and an extensive monitoring regime is in place in and around the landfill. A 1000 m3 flare is in continuous operation to burn of the gas and operates at over 1000C while regular gas balancing is carried out to ensure the maximum gas extraction from the landfill.
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
9	Closure plan review status	SELECT
10	Financial Provision for Closure status	SELECT Westmeath Co. Council will draw from reserved internal capital resources to fund the ongoing aftercare of the landfill.
11	Financial Provision for Closure - amount of cover	Specify
12	Financial Provision for Closure - type	Other please specify Westmeath Co. Council will draw from reserved internal capital resources to fund the ongoing aftercare of the landfill
13	Financial provision for Closure expiry date	Enter expiry date

Environmental Management Programme/Continuous Improvement Programme template		Lic No:	W0028	Year	2012
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	The purpose of the EMS is to ensure the operation of the site is in accordance with regulatory requirements and best landfill practice and to implement a schedule of objectives and targets.		
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	Since the landfill is closed the emphasis is on the management of the gas collection system, the operation of the flare, the collection of leachate and the proper operation of the civic amenity site.		
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	The main objectives for 2013 are : 1) Carry out the grass seeding in early Spring of the recently capped final section. 2) Ensure new gas extraction wells are fully operational in early Spring. 3) Monitor leachate generation following final capping. 4) Extract and flare maximum amount of gas from landfill.		
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	Local residents have their well water monitored by the Council and they receive a report on the quality of the water every quarter.		

#### Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Reduction of emissions to Air	Permanent capping of the uncapped (25%) area of the landfill	90	Capping works carried out by Priority Construction	Section Head	Installation of infrastructure
Energy Efficiency/Utility conservation	Examine the utilisation of landfill gas as a source of energy	80	Ready to go to tender	Section Head	none
SELECT		SELECT		SELECT	SELECT

**Noise monitoring summary report** Lic No: W0028 Year 2012

- 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 <sub>eq</sub>	LA <sub>90</sub>	LA <sub>10</sub>	LA <sub>max</sub>	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is site compliant with noise limits (day/evening/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:

W0028

Year

2012

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

None carried out in recent years	
yes	EnergyMap
SELECT	

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)				
Electricity Consumption (MWHrs)	122.55	94.652		
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)				
Natural gas (CMN)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

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

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

Table R2 Water usage on site				Water Emissions		Water Consumption	
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Volume Discharged back to environment(m <sup>3</sup> /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater	No figures - low	No figures - low					
Surface water	0	0					
Public supply	0	0					
Recycled water	0	0					
Total							

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

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

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

<b>Resource Usage/Energy efficiency summary</b>	Lic No: W0028	Year	2012
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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					





<b>WASTE SUMMARY</b>	Lic No:	W0028	Year	2012
<b>SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES</b>		<a href="#">PRTR facility login</a>	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	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description which applies to relevant 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 -
	<a href="#">European Waste Catalogue EWC codes</a>										

**SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES**

4 Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite

Yes	
SELECT	
Yes	

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	
Yes	
Yes	

6 Does your facility have relevant nuisance controls in place?

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

8 Do you maintain a sludge register on site?

**SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY**

**Table 2 Waste type and tonnage-landfill only**

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments
None	0	0	0	Landfill closed

**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
										ha	ha		
Whole Landfill	1991	2010		Public	Non Hazardous		No			5.9	5.9		Engineered landfill

<b>WASTE SUMMARY</b>	Lic No:	W0028	Year	2012
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**Table 4 Environmental monitoring-landfill on** [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
No	Yes	Yes	Yes	No	Yes	No		Monitoring is carried out for all parameters as per the licence

.+ 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
ha	ha					
0		5.9ha	0		An impermeable geocomposite layer, 800mm subsoil and 200mm top soil.	Final capping of last section completed in November 2012

\*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
No

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

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
1,421,189			No	Gas flared using 1000m3/hr flare



[Guidance to completing the PRTR workbook](#)

## AER Returns Workbook

Version 1.1.15

REFERENCE YEAR 2012

### 1. FACILITY IDENTIFICATION

Parent Company Name	Westmeath County Council
Facility Name	Ballydonagh Landfill
PRTR Identification Number	W0028
Licence Number	W0028-03

Waste or IPPC Classes of Activity

No.	class_name
3.5	Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.
3.1	Deposit on, in or under land (including landfill).
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
3.4	Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.
4.11	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
4.13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Ballydonagh
Address 2	Dublin Road
Address 3	Athlone
Address 4	Co. Westmeath
	Westmeath
Country	Ireland
Coordinates of Location	6.22678 53.3496
River Basin District	LEGISH
NACE Code	9821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	John Waldron
AER Returns Contact Email Address	jwaldron@westmeathcoco.ie
AER Returns Contact Position	Senior Executive Engineer
AER Returns Contact Telephone Number	044 9332157
AER Returns Contact Mobile Phone Number	087 7853567
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	0
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
5(d)	Landfills
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

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0028 | Facility Name : Ballydonagh Landfill | Filename : W0028 Ballydonagh PRTR 2012.xls | Return Year : 2012 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASERS TO AIR		METHOD			Please enter all quantities in this section in KGs			
POLLUTANT		Method Used			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
01	Methane (CH4)	C	PER	Calculated using Gas Sim	0.0	242095.0	0.0	242095.0
03	Carbon dioxide (CO2)	C	PER	Calculated using Gas Sim	0.0	764293.0	0.0	764293.0

\* 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			
POLLUTANT		Method Used			QUANTITY			
No. Annex II	Name	M/C/E	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		Method Used			QUANTITY			
Pollutant No.	Name	M/C/E	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: Ballydonagh Landfill

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)	1180000.0	C	PER	Calculated using Gas sim	N/A
Methane flared	937905.0	C	PER	Calculated using average flow	1000.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	242095.0	C	PER	Methane generated minus m	N/A

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0028 | Facility Name : Ballydonagh Landfill | Filename : W0028 Ballydonagh PRTR 2012.xls | Return Year : 2012 |

10/04/2013 15:23

Please enter all quantities on this sheet in Tonnes

0

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility	Non	Haz Waste : Address of Next Destination Facility	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used		Haz Waste : Name and Licence/Permit No of Recover/Disposer	Non Haz Waste: Address of Recover/Disposer			
Within the Country	17 02 01	No	15.0	wood	R3	M	Weighed	Offsite in Ireland	Guesford Ltd,OY-10-0183-02		Daingean,Offaly,Co Offaly,Ireland,Ireland Golden Island ,Athlone ,Westmeath,Co		
Within the Country	19 07 03	No	6088.0	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	Athlone Waste Water Treatment Plant,D0007-01		Westmeath,Ireland Glassco,Naas,Kildare,Co		
Within the Country	20 01 02	No	3.0	glass	R5	M	Weighed	Offsite in Ireland	Glassco,WP247/2006		Kildare,Ireland 504A ,Greenogue Business Park,Greenogue,Dublin 24,Ireland		
Within the Country	20 01 10	No	2.0	clothes	R3	M	Weighed	Offsite in Ireland	Textile Recycling Ltd,WCP-DC 01		Daingean,Offaly,Co Offaly,Ireland,Ireland		
Within the Country	20 01 40	No	11.0	metals	R4	M	Weighed	Offsite in Ireland	Guesford Ltd,OY-10-0183-02		Daingean,Offaly,Co Offaly,Ireland,Ireland		
Within the Country	20 02 01	No	5.0	biodegradable waste	R3	M	Weighed	Offsite in Ireland	Guesford Ltd,OY-10-0183-02		Offaly,Ireland,Ireland Robinhood Road ,Clondalkin,Dublin,Co		
Within the Country	20 03 01	No	1663.0	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Oxigen Environmental Ltd,W0152 03		Dublin,Ireland		

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

[Link to previous years waste data](#)

[Link to previous years waste summary data & percentage change](#)

