

Facility Information Summary	
AER Reporting Year	2014
Licence Register Number	W0073
Name of site	Roscommon Landfill Facility
Site Location	Killarney Townland, Roscommon
NACE Code	3821
Class/Classes of Activity	3.11, 3.12, 3.13, 3.4, 3.6, 3.7, 4.13, 4.2, 4.3,4.4, 4.
National Grid Reference (6E, 6 N)	8.15598 53.6378

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.**

Landfilling at the facility ceased on December 31st 2001. A Recycling Centre is in operation at the site which accepts recyclables such as paper, glass and cardboard. Domestic waste is also accepted for disposal. 278.28 tonnes of mixed municipal waste was collected at the facility in 2014. Barna Waste service the site and remove the domestic mixed municipal waste compactor for pre-treatment prior to disposal. A total of 1983.675 tonnes of material was collected in 2014. The total amount of material accepted for recycling in 2014 was 1705.395 tonnes and the total figure for mixed municipal waste was 278.28 tonnes. One petrol interceptor installed on site in 2013. There were no incidents or complaints reported for the year 2014.

Surface water: The surface water parameters were within limits with exception of BOD and Ammonia, which is consistent with previous results. The surface water quality appears to be superior at SW1 in comparison to SW3 and SW7 which is consistent with observations made from previous monitoring periods.

Groundwater: Groundwater parameters were within limits with exception of Ammonia, Manganese and Iron, which is consistent with previous results.

Leachate: Leachate levels of parameters fluctuated during 2014, which is consistent with previous results.

Landfill Gas Monitoring: In the first half of 2014 all the gas concentrations decreased from the level recorded in 2013 but increased again in the second half of 2014; which is consistent with previous results.

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	John Mockler	Date
Group/Facility manager		31/03/2015
(or nominated, suitably qualified and experienced deputy)		

AIR-summary template	Lic No: W0073	Year: 2014
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Answer all questions and complete all tables where relevant

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

Additional information	
Yes	Undertake landfill gas monitoring on a biannual basis at 10 no. gas extraction boreholes

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
- 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](#)

No	
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
Site Office	Methane (CH4)	Once every 3 months	1.0%v/v	100 % of values < ELV	0%v/v		yes	Gas Analyser		
Site Office	Carbon dioxide (CO2)	Once every 3 months	1.5%v/v	100 % of values < ELV	0%v/v		yes	Gas Analyser		
Flare Outlet	volumetric flow				46.25	Nm ³ /hour				Measured value is average from available data.

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

AIR-summary template	Lic No: W0073	Year: 2014
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)

5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 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 A3 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
	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

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0073 Year 2014

<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 you do not have licenced emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections</p>		No	<p>Additional information</p> <p>The lagoon provides buffer storage for leachate pumped from the lined cells, before it is pumped to a tanker and transported to Roscommon WWTP.</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 only any evidence of contamination noted during visual inspections</p>		Yes	<p>Complete visual inspection of 3 no. sampling locations on a biannual frequency.</p>

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	

*trigger values may be agreed by the Agency outside of licence conditions

Table W2 Visual inspections-Please only enter details where contamination was observed.

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
			SELECT		
			SELECT		

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

<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>		SELECT	<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>		SELECT	<p>External/Internal Lab Quality checklist Assessment of results checklist</p>

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 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
	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?

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

Groundwater/Soil monitoring template	Lic No: W0073	Year 2014
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		Comments
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes
2	Are you required to carry out soil monitoring as part of your licence requirements?	no
3	Do you extract groundwater for use on site? If yes please specify use in comment section	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	no
5	Is the contamination related to operations at the facility (either current and/or historic)	SELECT
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	SELECT
7	Please specify the proposed time frame for the remediation strategy	SELECT
8	Is there a licence condition to carry out/update ELRA for the site?	SELECT
9	Has any type of risk assessment been carried out for the site?	SELECT
10	Has a Conceptual Site Model been developed for the site?	SELECT
11	Have potential receptors been identified on and off site?	SELECT
12	Is there evidence that contamination is migrating offsite?	SELECT

Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER

Levels of Ammonia were above the standard limit at GW4 and GW6, which is consistent with results dating back to H2 2010. Concentrations of Iron and Manganese also continue to exceed the standard limit at both monitoring locations.

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
23/04/14 & 27/11/14	GW4	Ammonia	Competent lab	Biannually	2.96	2.315	mg/l	n/a	0.15	no
23/04/14 & 27/11/14	GW4	DO	Competent lab	Biannually	24.2	15.84	mg/l and mg/l/%SAT	n/a	no abnormal change	no
23/04/14 & 27/11/14	GW4	PH	Competent lab	Biannually	7.25	7.19		n/a	6.5-9.5	no
23/04/14 & 27/11/14	GW4	Conductivity	Competent lab	Biannually	824	755.5	at 20°	n/a	1000	no
23/04/14 & 27/11/14	GW4	Temprature	Competent lab	Biannually	11.9	10.4	°	n/a	25	no
23/04/14 & 27/11/14	GW4	Levels	Competent lab	Biannually	0.9	0.8	mbgl	n/a	n/a	no
27/11/2014	GW4	Cadmium	Competent lab	Annually	<0.1	<0.1	ug/l	n/a	5	no
27/11/2014	GW4	Chromium	Competent lab	Annually	<1	<1	ug/l	n/a	30	no

Groundwater/Soil monitoring template					Lic No:	W0073	Year	2014		
27/11/2014	GW4	Copper	Competent lab	Annually	<0.003	<0.003	ug/l	n/a	30	no
27/11/2014	GW4	Iron	Competent lab	Annually	2100	2100	ug/l	n/a	200	no
27/11/2014	GW4	Lead	Competent lab	Annually	<0.3	<0.3	ug/l	18.75	10	no
27/11/2014	GW4	Magnesium	Competent lab	Annually	21.6	21.6	mg/l	n/a	50000	no
27/11/2014	GW4	Manganese	Competent lab	Annually	98	98	ug/l	n/a	50	no
27/11/2014	GW4	Mercury	Competent lab	Annually	<0.02	<0.02	ug/l	0.75	1	no
27/11/2014	GW4	Potassium	Competent lab	Annually	3.7	3.7	mg/l	n/a	5	no
27/11/2014	GW4	Sulphate	Competent lab	Annually	18	18	mg/l	n/a	200	no
27/11/2014	GW4	Sodium	Competent lab	Annually	21	21	mg/l	n/a	150	no
27/11/2014	GW4	Total Phosphorus	Competent lab	Annually	0.04	0.04	mg/l	n/a	0.03	no
27/11/2014	GW4	Phenols	Competent lab	Annually	<0.15	<0.15	mg/l	n/a	0.5	no
27/11/2014	GW4	Zinc	Competent lab	Annually	7.9	7.9	ug/l	n/a	100	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*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
23/04/14 & 27/11/14	GW6	Ammonia	Competent lab	Biannually	30.62	17.15	mg/l	n/a	0.15	no
23/04/14 & 27/11/14	GW6	DO	Competent lab	Biannually	22.2	15.05	mg/l and mg/l/%SAT	n/a	no abnormal change	no
23/04/14 & 27/11/14	GW6	PH	Competent lab	Biannually	7.25	7.16		n/a	6.5-9.5	no
23/04/14 & 27/11/14	GW6	Conductivity	Competent lab	Biannually	1030	845	at 20°	n/a	1000	no
23/04/14 & 27/11/14	GW6	Temprature	Competent lab	Biannually	12.4	10.9	°	n/a	25	no
23/04/14 & 27/11/14	GW6	Levels	Competent lab	Biannually	0.8	0.65	mbgl	n/a	n/a	no
27/11/2014	GW6	Cadmium	Competent lab	Annually	<0.1	<0.1	ug/l	n/a	5	no
27/11/2014	GW6	Chromium	Competent lab	Annually	<1	<1	ug/l	n/a	30	no

Groundwater/Soil monitoring template					Lic No:	W0073	Year	2014		
27/11/2014	GW6	Copper	Competent lab	Annually	<0.003	<0.003	ug/l	n/a	30	no
27/11/2014	GW6	Iron	Competent lab	Annually	880.00	880.00	ug/l	n/a	200	no
27/11/2014	GW6	Lead	Competent lab	Annually	<0.3	<0.3	ug/l	18.75	10	no
27/11/2014	GW6	Magnesium	Competent lab	Annually	18.20	18.20	mg/l	n/a	50000	no
27/11/2014	GW6	Manganese	Competent lab	Annually	120.00	120.00	ug/l	n/a	50	no
27/11/2014	GW6	Mercury	Competent lab	Annually	<0.02	<0.02	ug/l	0.75	1	no
27/11/2014	GW6	Potassium	Competent lab	Annually	3.15	3.15	mg/l	n/a	5	no
27/11/2014	GW6	Sulphate	Competent lab	Annually	BLD	BLD	mg/l	n/a	200	no
27/11/2014	GW6	Sodium	Competent lab	Annually	17.70	17.70	mg/l	n/a	150	no
27/11/2014	GW6	Total Phosphorus	Competent lab	Annually	0.08	0.08	mg/l	n/a	0.03	no
27/11/2014	GW6	Phenols	Competent lab	Annually	<0.15	<0.15	mg/l	n/a	0.5	no
27/11/2014	GW6	Zinc	Competent lab	Annually	15.40	15.40	ug/l	n/a	100	no
<p>*please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA. Groundwater monitoring template</p>										
<p>More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31) Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013).</p>										
<p>**Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), If the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS) Groundwater Drinking water Surface water EQS regulations (private supply) Drinking water (public supply) standards Interim Guideline Values (IGV)</p>										

Groundwater/Soil monitoring template

Lic No:

W0073

Year

2014

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	Not required	The licensee has established and maintains a fund/ written guarantee, that is adequate to assure the Agency that the licensee is at all times financially capable of implementing the Restoration and Aftercare Plan required by Condition 8.1.
2	ELRA review status	n/a	
3	Amount of Financial Provision cover required as determined by the latest ELRA	n/a	
4	Financial Provision for ELRA status	n/a	
5	Financial Provision for ELRA - amount of cover	n/a	
6	Financial Provision for ELRA - type	n/a	
7	Financial provision for ELRA expiry date	n/a	
8	Closure plan initial agreement status	n/a	
9	Closure plan review status	n/a	
10	Financial Provision for Closure status	n/a	
11	Financial Provision for Closure - amount of cover	n/a	
12	Financial Provision for Closure - type	n/a	
13	Financial provision for Closure expiry date	n/a	

Environmental Management Programme/Continuous Improvement Programme template		Lic No:	W0073	Year	2014
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Highlighted cells contain dropdown menu click to view		Additional Information	
1	Do you maintain an Environmental Management System (EMS) for the site. If yes, please detail in additional information	Yes	A revised Environmental Management Plan (EMP) for the facility was issued in December 2004.
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	Refer to Roscommon County Council website: http://www.roscommoncoco.ie/en/Services/Environment/Waste_Management,_Disposal_and_Recycling/

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: W0073	Year	2014
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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:

W0073

Year

2014

Additional information

- 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

n/a	
SELECT	
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)	13573	12747		
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	13573	12747	N/A	N/A
Fossil Fuels Consumption:				
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

Table R2 Water usage on site					Water Emissions	Water Consumption	
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Volume Discharged back to environment(m ³ /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater							
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

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

Resource Usage/Energy efficiency summary Lic No: W0073 Year 2014

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:	W0073	Year:	2014
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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	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 m2 ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					

*please note this includes daily cover area

Table 6 Leachate-Landfill only

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

SELECT

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

SELECT

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments
1235.66					no sent to Roscommon WWTP		

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
		N/A	Yes	

Comments on
liner type



Environmental Protection Agency

[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.18

REFERENCE YEAR	2014
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1. FACILITY IDENTIFICATION

Parent Company Name	Roscommon County Council
Facility Name	Roscommon Landfill Facility
PRTR Identification Number	W0073
Licence Number	W0073-01

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Killarney Townland
Address 2	
Address 3	
Address 4	
	Roscommon
Country	Ireland
Coordinates of Location	-8.15598 53.6378
River Basin District	IEGBNISH
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	John Mockler
AER Returns Contact Email Address	jmockler@roscommoncoco.ie
AER Returns Contact Position	Environment Department
AER Returns Contact Telephone Number	090663748
AER Returns Contact Mobile Phone Number	0876977600
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	1
User Feedback/Comments	There is a +50% variance in the gas data from the pervious year due to an update of the site model. Review of the previous model indicated that the CH4/CO2 relationship was not representative of the monitored gas flare data.
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?	
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#: W0073 | Facility Name : Roscommon Landfill Facility | Filename : W0073_2014-PRTR.xls | Return Year : 2014 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
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
01	Methane (CH4)	C	OTH	Landfill Gas Survey and Gas Sim	310195.0	310195.0	0.0	0.0
03	Carbon dioxide (CO2)	C	OTH	Gas Sim	904501.0	904501.0	0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
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)

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
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: Please enter summary data on the quantities of methane flared and / or utilised	Roscommon Landfill Facility				Facility Total Capacity m3 per hour
	T (Total) kg/Year	M/C/E	Method Code	Designation or Description	
Total estimated methane generation (as per site model)	337371.0	C	OTH	GasSim	N/A
Methane flared	27176.0	C	OTH	Landfill Gas Survey	100.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	310195.0	C	OTH	Landfill Gas Survey & GasS	N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO WATERS	
POLLUTANT	
No. Annex II	Name

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS	
POLLUTANT	
No. Annex II	Name

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

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

RELEASES TO WATERS	
POLLUTANT	
Pollutant No.	Name

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

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be entered here.

Please enter all quantities in this section in KGs				
M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
	Method Code	Designation or Description		
			0.0	0.0

) then click the delete button

Please enter all quantities in this section in KGs				
M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
	Method Code	Designation or Description		
			0.0	0.0

) then click the delete button

Please enter all quantities in this section in KGs				
M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
	Method Code	Designation or Description		
			0.0	0.0

) then click the delete button

OT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : W0073 | Facility Name : Roscommon Landfill Facility | Filename : W0073_2014-PRTR.xls

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SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					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 B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					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

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND	
POLLUTANT	
No. Annex II	Name

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

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO LAND	
POLLUTANT	
Pollutant No.	Name

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

METHOD			Please enter all quantities
M/C/E	Method Used		
	Method Code	Designation or Description	Emission Point 1
			0.0

) then click the delete button

METHOD			Please enter all quantities
M/C/E	Method Used		
	Method Code	Designation or Description	Emission Point 1
			0.0

) then click the delete button

in this section in KGs	
QUANTITY	
T (Total) KG/Year	A (Accidental) KG/Year
0.0	0.0

in this section in KGs	
QUANTITY	
T (Total) KG/Year	A (Accidental) KG/Year
0.0	0.0

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0073 | Facility Name : Roscommon Landfill Facility | Filename : W0073_2014-PRTR.xls | Return Year : 2014 |

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Please enter all quantities on this sheet in Tonnes

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		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	15 01 02	No	0.65	aeroboard	R5	M	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Carrowbrowne,Headford Road,Galway,..Ireland		
Within the Country	15 01 06	No	104.2	mixed packaging landfill leachate other than those mentioned in 19 07 02	R4	M	Weighed	Offsite in Ireland	Barna Waste,W0106-02 Roscommon Wastewater Treatment Plant,."	Carrowbrowne,Headford Road,Galway,..Ireland		
Within the Country	19 07 03	No	1235.66	cardboard, newspaper, glossy magazines,	D8	M	Weighed	Offsite in Ireland	"",",",Roscommon,"",Ireland	Carrowbrowne,Headford Road,Galway,..Ireland		
Within the Country	20 01 01	No	180.72	milk cartons	R3	M	Weighed	Offsite in Ireland	Barna Waste,W0106-02	52 Creagh Road,Toomebridge,Co. Antrim,BT41 3SE,United Kingdom		
To Other Countries	20 01 02	No	41.7	glass	R5	M	Weighed	Abroad	Glassdon Recycling,.	Glen Abbey Complex / Carrowbrowne,Belgard Road Tallaght / Headford Road,Dublin 24 / Galway,..Ireland		
Within the Country	20 01 11	No	6.42	textiles	R3	M	Weighed	Offsite in Ireland	Textile Recycling Ltd./Barna Waste,W0106-02	Carrowbrowne,Dublin 1 / Headford Road,Dublin / Galway,..Ireland		
To Other Countries	20 01 27	Yes	8.405	household hazardous batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing	R2	M	Weighed	Abroad	Indaver / Barna Waste,W0036-02 / W0106-02	Headford Road,Dublin / Galway,..Ireland	Indaver,W0036-02,Dublin Port,Dublin 1,Dublin,..Ireland	Dublin Port,Dublin 1,Dublin,..Ireland
Within the Country	20 01 33	Yes	1.3	these batteries discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 23 containing	R4	M	Weighed	Offsite in Ireland	Envva W0184-01 / WEEE Ireland,.	Portlaoise / Suite 18, / The Mall Beacon court,Co. Laois / Dublin 18,..Ireland	Envva Ireland,W0184-01,Portlaoise,"",Co. Laois,"",Ireland	Portlaoise,"",Co. Laois,"",Ireland
Within the Country	20 01 35	Yes	120.12	hazardous components	R4	M	Weighed	Offsite in Ireland	KMK Metal Recycling Ltd.,W01130-03	Estate,Daingean Road,Tullamore,Co. Offaly,Ireland	Abroad (commercially sensitive information),,,,,,,,,,,,,,,,,,,,,,	
Within the Country	20 01 38	No	28.8	wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Carrowbrowne,Headford Road,Galway,..Ireland		
Within the Country	20 01 40	No	19.3	metals	R4	M	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Carrowbrowne,Headford Road,Galway,..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](#)
- [Link to Waste Guidance](#)