

Facility Information Summary


AER Reporting Year	2014
Licence Register Number	W0071-02
Name of site	Marlinstown Landfill
Site Location	Marlinstown, Mullingar, County Westmeath
NACE Code	3821
Class/Classes of Activity	A3 (2011)
National Grid Reference (6E, 6 N)	(-) 7.29169 53.5229

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.

The final capping of the last section of the landfill (phase 2) was completed in early 2012. At the end of October 2013 on the recommendation of our consultants and in consultation with the EPA the flare ignition system was turned off while the flow through the blower was increased to an average of 492m³/hr for the last two months and the whole of 2014. This was to ascertain if landfill gas was migrating off site. At the end of July 2014 the blower was turned off at the flare. Over the next two weeks the perimeter gas wells were monitored twice a day, seven days a week. At the end of the second week methane levels in two of the perimeter wells were in excess of the 1% license limit and two others were recording trace methane. In August the blower was turned back on and over a two week period the methane levels returned to normal expected values. This trial strongly suggests that methane gas is migrating from the landfill. There were 12 incidents due to exceeding the limits for CH₄ and CO₂ during the monthly perimeter gas monitoring. Power consumption was down 370% on last year. This was due to: 1). Altering the blower rate on the flare from 100% to 0% over the year in the pumping trial. 2). Due to a leak on the compressed air line the compressor was turned off over the weekends. There was a 260% increase in incidents this year as a result of the EPA requesting that we report them on a weekly rather than a monthly basis as done in the previous year.

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	M. Moran 2015 Date
Group/Facility manager (or nominated, suitably qualified and experienced deputy)	

Air-summary template

Answer all questions and complete all tables where relevant

Lic No: W0073402

Year

2014

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 licensed emissions and do not complete a solvent management plan (table A4 and A5) you do not need to complete the tables**

Yes	Licence requires monitoring for Nox, SO2 and TOC, HCl and HF.
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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

3 Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist?

SELECT	Basic air monitoring checklist	AGM2	No	No monitoring of the flare was carried out as there was no burning of the gas for the entire year
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Table A1: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	EIV 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
	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

Air-summary template	Lic No:	2014
Continuous Monitoring	W0071-02	Year

- 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)

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

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

	SELECT
--	--------
- 7 Did you 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	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedances in current reporting year	Comments
		ELV in licence or any revision thereof							
	SELECT		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

Date*	Duration* (hours)	Location	Reason for bypass	Impact magnitude	Corrective action
01/01/2014	365 days	Flare	Mitigating gas testing	Undetermined	recommence flaring agreed with EPA

* 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)

Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If you do not have licensed emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections

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

Table W1 Storm water monitoring

Yes	No
There are 4 surface water monitoring points - SW1 & SW2 are the SS point on the Millstream stream, however due to low flow / no flow SW1 was not monitored. SW3 1hm DS and SW5 DS at side of Millstream for SW3 only HH4 and SS required.	
No evidence of contamination	

Location reference	Location relative to site activities	PRTR Parameter	Licensed Parameter	Monitoring date	EIV or trigger level in licence or any licence thereof	License Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
SW2	upstream		Chloride	Half yearly		SELECT	40	mg/L	SELECT	This is 17% higher than last year.
SW2	upstream		Ammonia (as N)	Half yearly			0.5	mg/L		This is 30% higher than last year.
SW2	upstream		BOD	Half yearly			2.19	mg/L		This is 10% higher than last year.
SW3	downstream		Chloride	Half yearly			49.5	mg/L		No significant change from last year.
SW3	downstream		Ammonia (as N)	Half yearly			2.3	mg/L		300% increase on last year.
SW3	downstream		BOD	Half yearly			7.5	mg/L		300% increase on last year.

*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		

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

3	Was there any breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below	SELECT	Additional information
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Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aquatic Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box

External/Internal Lab Quality Assessment of results/decisions

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

Emission reference no	Emission referred to	Parameter/Subparameter 1	Type of sample	Frequency of monitoring	Average period	EIV or trigger value in licence or any licence or	License 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			

Note 1: Volatile organic 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 (respirator quality standard)

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)

Additional Information
No

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

SELECT

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

SELECT

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

SELECT

Table W4: Summary of average emissions -continuous monitoring

Emission reference no:	Emission released to	Parameter/Substance	ELV or trigger values in Reference Interval	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 exceedances in reporting year	Comments
SELECT	SELECT	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.

Table W5: Abatement system bypass reporting table

Date	Duration (hours)	Location	Residual emissions	Reason for bypass	Corrective action*	Was a report submitted to the EPA?	When was this report submitted?
						SELECT	
						SELECT	

*Measures taken or proposed to reduce or limit bypass frequency

Comments

1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes		6 No. monitoring boreholes around site.	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
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 G8J and submit separately through ALDER as a licensee return AND answer questions 5-12 below.	yes			
5	Is the contamination related to operations at the facility (either current and/or historic)	inconclusive			
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	yes		Leachate removal from landfill	
7	Please specify the proposed time frame for the remediation strategy	yes		Ongoing	
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?			Risk assessment is being finalised. Previously carried out in 2005.	
10	Has a Conceptual Site Model been developed for the site?	yes		Part of the R.A. above	
11	Have potential receptors been identified on and off site?	yes			
12	Is there evidence that contamination is migrating offsite?	possible		Elevated ammonia levels in groundwater down gradient of site in boggy ground.	

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTVs*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
Half yearly	31	Ammonia		Half yearly	0.30	0.28	mg/l			yes
Half yearly	31	Chloride		Half yearly	15.00	13.00	mg/l			yes
Half yearly	31	Conductivity		Half yearly	655.00	572	mScm-1			data not available
Half yearly	32	Ammonia		Half yearly	0.27	0.21	mg/l			yes
Half yearly	32	Chloride		Half yearly	22.00	17	mg/l			no

Groundwater/Soil monitoring template Lic No: W0071-02 2014

Half yearly	32 Conductivity	Half yearly	695	589		Year	2014	data not available
					mScm-1			

.* 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
Half yearly	13	Ammonia		Half yearly	41	23	mg/l			Fall on last year
Half yearly	13	Chloride		Half yearly	14.1	12	mg/l			Fall on last year
Half yearly	13	Conductivity		Half yearly	1238	737	mScm-1			Fall on last year
Half yearly	14	Ammonia		Half yearly	12.55	8.8	mg/l			Fall on last year
Half yearly	14	Chloride		Half yearly	25.5	20	mg/l			Fall on last year
Half yearly	14	Conductivity		Half yearly	632	610	mScm-1			Fall on last year

* 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 ALCER as a license return or as otherwise instructed by the EPA

More information on the use of soil and groundwater standard/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance [Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites \(EPA 2013\)](#) (see the link in G31)

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

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

Table 3: Soil results

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

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

Environmental Liabilities template

Lic No:

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Year

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

		Commentary
1	ELRA initial agreement status	Risk assessment carried out in 2005. A new one is being prepared. Not sure of agreement
2	ELRA review status	
3	Amount of financial Provision cover required as determined by the latest ELRA	
4	Financial Provision for ELRA status	
5	Financial Provision for ELRA - amount of cover	
6	Financial Provision for ELRA - type	
7	Financial provision for ELRA expiry date	
8	Closure plan initial agreement status	
9	Closure plan review status	
10	Financial Provision for Closure status	
11	Financial Provision for Closure - amount of cover	
12	Financial Provision for Closure - type	
13	Financial provision for Closure expiry date	Westmeath Co.

Environmental Management Programme/Continuous Improvement Programme template

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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
- 2 Does the EMS reference the most significant environmental aspects and associated impacts on-site
- 3 Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements
- 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	In accordance with regulatory requirements and best landfill practice and to implement a schedule of objectives and targets.
Yes	Since the landfill is closed, the emphasis is on the management of the gas collection system, the operation of the flare and the management of the gas stream to ensure compliance with the licence conditions.
Yes	Consultants to look at alternative treatment methods for landfill gas does not migrate off site. 2).
Yes	Public given environmental data on request.

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Reduction of emissions to Air	Establish whether landfill gas	100	Works completed	Section Head	Trial established that landfill gas does migrate off site under certain circumstances.
SELECT		SELECT		SELECT	SELECT
SELECT		SELECT		SELECT	SELECT

Noise monitoring summary report

Lic No:

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1 Was noise monitoring a licence requirement for the AFR 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?
- 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 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 NSL. 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)

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

Additional information	
Enter date of audit	
SEAI - Large Industry Energy Network (IEN)	Yes
Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information	SELECT

Table R1 Energy usage on site			
Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**
Total Energy Used (MWhrs)			Energy Consumption +/- % vs overall site production*
Total Energy Generated (MWhrs)			
Total Renewable Energy Generated (MWhrs)			
Electricity Consumption (MWhrs)	63,263	16,973	
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**	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	not measured - very low	not measured - very low					
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:

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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					

Complaints and Incidents summary template

Complaints

Lic No:

W0071-02

Year

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Additional information

Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below

No Yes

Table 1 Complaints summary

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

Incidents

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

Yes No

Additional information

* For information on how to report and what constitutes an incident

[What is an incident](#)

Table 2 Incidents summary

Date of occurrence weekly / monthly	Incident nature	Location of occurrence	Incident category* please refer to guidance	Receptor	Cause of incident (specify)	Other cause (please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action <20 words	Preventative action <20 words	Resolution status	Resolution date	Likelihood of recurrence
28/11/2014	Breach of EIV	Perimeter gas wells	1. Minor	Air	Other (add details) Migration of gas	Other (add details) Power failure	Normal activities	EPA	Requiring	Increase attraction and restore power		Engaging	28/11/2014	High
16/12/2014	Breach of EIV	Groundwater Boreholes	2. Limited	Ground	Other (add details) Possible contaminant	Other (add details) Normal activities	Normal activities	EPA	New	Remove leachate		Complete	Oct-15	Medium
16/12/2014	Breach of EIV	Surface water	2. Limited	Water	Other (add details) Possible contaminant	Other (add details) Normal activities	Normal activities	EPA	New	Remove leachate		Complete	Oct-15	Medium
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT
Total number of incidents current year														
Total number of incidents previous year														
% reduction/increase														
														260%

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
 No landfill stored

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
 Additional Information
 SELECT

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

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)

Licence annual tonnage limit for your site (total tonnes/annum)	EWIC code	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EWIC code	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 (PC) - 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 -
	European Waste Catalogue EWIC codes		European Waste Catalogue EWIC codes								

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 on site
 SELECT
- 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
 SELECT
- 6. Does your facility have relevant nuisance controls in place?
 SELECT
- 7. Do you have an odour management system in place for your facility? If no why?
 SELECT
- 8. Do you maintain a sludge register on site?
 SELECT

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and tonnage-landfill only

Waste Type prescribed for disposal	Authorised/recommended annual tonnage for disposal (ton)	Actual tonnage for disposal in reporting year (ton)	Remaining licensed capacity at end of reporting year (ton)	Comments

Table 3 General Information-Landfill only

Area ID	Site Landfilling commenced	Site Landfilling ceased	Currently Landfilling	Private or Public Operator	Is it or non-hazardous	Expected date to cease landfilling	License permits substrate	Is there a separate cell for substrate?	Accepted substrate in reporting year	Total disposal area occupied by waste	Land disposal area occupied by waste	Land area
Whole Landfill	1963	2002	No	Public	Non-Hazardous	No	No	No		ha	ha	0

WASTE SUMMARY

IS No.:

W0071-02

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Table 4 Environmental monitoring -landfill only

(Landfill Manual Monitoring Standards)

Was meteorological monitoring in compliance with Landfill Directive (L1)?	Was Leachate (Gas monitored in compliance with L1) standard in reporting year?	Was SW monitored in compliance with L1? Standard in reporting year?	Were GW trigger levels met/established?	Were odour limit values agreed with the Agency (ELV1)?	Was topography of the site verified in reporting year?	Has the statement under SSKA(5) of WVA been established in reporting year?	Comments
No	Yes	No	No	Yes	No	No	Due to retirement of key personnel some licence requirements were not met.

Table 5 Capping -Landfill only

Area designated?	Area with temporary cap	Area with final cap to L1? Standard in L1, 2	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap?	Comments
Yes	0	0	9	9	Art impermeable geocomposite layer, 800mm subsoil and 200mm top soil for 7 ha. A permeable geocomposite layer for 2 ha.	Capping work completed in April 2012

* please note that includes daily cover area

Table 6 Leachate-Landfill only

9 Is leachate from your site treated in a Waste Water Treatment Plant?
 10 Is leachate released to surface water? If yes please complete leachate mass load information below

Volume of leachate in reporting year(m ³)	Leachate (COD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH3) mass load (kg/annum)	Leachate (Chloride) mass load (kg/annum)	Leachate treatment grade	Specify type of leachate treatment	Comments
0	0	0	0	0	0	0	0

Please ensure that all information reported in the landfill gas system is consistent with the landfill gas survey submitted in conjunction with PFR returns.

Gas Capture/Leakage Treatment By LRT System m ³	Power generated (kW / kWh)	Land under or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
0	0	No	No	Due to trial to prove gas was migrating off site no gas flared.

Construction Layer Type

Guidance to completing the PRTR workbook

AER Returns Workbook

REFERENCE YEAR 2014

1. FACILITY IDENTIFICATION

Parent Company Name **Westmeath County Council**
 Facility Name **Hardestown Landfill**
 PRTR Identification Number **W0071**
 Licence Number **W0071-02**

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

Address 1 **Marlinstown Bog**
 Address 2 **Mullingar**
 Address 3
 Address 4

Country **Ireland**
 Coordinates of Location **-7.29169 53.5229**
 River Basin District **IEEA**
 NACE Code **3821**

Main Economic Activity **Treatment and disposal of non-hazardous waste**
 AER Returns Contact Name **Patrick Tighe**
 AER Returns Contact Email Address **patrick@westmeathccoco.ie**
 AER Returns Contact Telephone Position **Senior Executive Technician**
 AER Returns Contact Telephone Number **044 9332128**
 AER Returns Contact Mobile Phone Number **087 7959143**
 AER Returns Contact Fax Number

Production Volume Units
 Number of Installations
 Number of Operating Hours in Year
 Number of Employees

User Feedback/Comments
 Web Address

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	Installations for the recovery or disposal of hazardous waste General

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

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

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

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

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Landfill leachate other than those mentioned	Waste Treatment Operation		Location of Treatment	Name and License / Permit No. and Address of Final Receiver / Disposer (HAZARDOUS WASTE ONLY)		Actual Address of Final Destination i.e. Final Recovery/ Disposal Site (HAZARDOUS WASTE ONLY)
						IMC/E	Method Used		HAZ Waste Destination Facility Name and License/Permit No of Receiver/Disposer	HAZ Waste Address of Receiver/Disposer	
Within the Country	19 07 03	No	113.0	In 19 07 02		D8	C	Volume Calculation	Offsite in Ireland	Mullingar Waste Water Treatment Plant, D 0008-01	Clonmore Mullingar, Co Westmeath, Ireland

* See Annex B for details of the Description of Waste per data the data column

- [Link to PREVIOUS YEARS WASTE DATA](#)
- [Link to PREVIOUS YEARS WASTE SUMMARY DATA & PERCENTAGE CHANGE](#)
- [Link to WASTE GUIDANCE](#)