

Facility Information Summary

Licence Register Number  
 Name of site  
 Site Location  
 NACE Code  
 Class of Activity  
 RBME risk category  
 National Grid Reference (6E, 6 N)

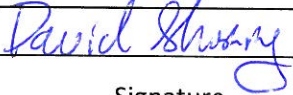
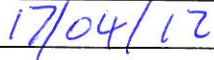
W0071-02
Marlinstown Landfill
Marlinstown, Mullingar, Co. Westmeath
3821
Treatment and disposal of non- Hazardous waste
A3 (2010)
(-) 7.29169 53.5229

A brief description of the activities/process at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance improvements which were measured during the reporting year;

The Landfill was closed in December 2002. In 2005 70% was permanently capped. In August 2011 work commenced on permantly capping the remaining 30%. The works will be completed in early 2012. New gas extraction wells were installed - 5 No in the the previously capped area and 5 no. in the newly capped area.

**Declaration:**

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

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

**AER summary template-AIR emissions**

1 Does your site have licensed air emissions? If yes please complete table 1, 2 and 3 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 5 and 6) you only need to complete table 1 fugitive emissions on site below

Additional information	
Yes	Licence requires monitoring for Nox, SO2 and TOC, HCl and HF. This was not carried out in 2011. It will be done in early 2012.

**Table 1 Fugitive emissions**

Parameter /Substance	Annual fugitive emission (kg/annum)	Quantificaton method M/C/E
Methane (CH4)	43,000	M
Carbon dioxide (CO2)	143,000	M

**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 Table 2 below

SELECT	
SELECT	

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](#)

**Table 2: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)**

Emission reference no:	Parameter/ Substance	Date 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)	% change in mass load from previous year +/-	Comments
	SELECT			SELECT		SELECT	SELECT	SELECT			
	SELECT			SELECT		SELECT	SELECT	SELECT			

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

**Continuous Monitoring**

4 Does your site carry out continuous air emissions monitoring?

If yes please review your continuous monitoring data and report the required fields below in Table 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 3: 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)	% compliance current reporting year	Comments
	SELECT			SELECT	SELECT					

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

**Table 4: Abatement system bypass reporting table** [Bypass protocol](#)

Date*	Duration** (hours)	Location	Reason for bypass	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

8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out table 5

No	
----	--

<b>Table 5: Solvent Management Plan Summary</b>			<a href="#">Solvent regulations</a> Please refer to linked solvent regulations to complete table 5 and 6		
<b>Total VOC Emission limit value</b>					
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision thereof	Compliance
					SELECT
					SELECT

<b>Table 6: Solvent Mass Balance summary</b>								
	(I) Inputs (kg)	(O) Outputs (kg)						
Solvent	(I) Inputs (kg)	Organic solvent emission in waste gases(kg)	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g. by-passes (kg)	Solvents destroyed onsite through physical reaction e.g. incineration(kg)	Total emission of Solvent to air (kg)
							Total	

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

1 Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table 3 and 4 below for the current reporting year and answer further questions. If **you do not have** licenced emissions you only need to complete table 1 and /table 2 below for ambient monitoring and visual inspections

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 2 below summarising only any evidence of contamination noted during visual inspections

Additional information	
No	There are 4 surface water monitoring points - SW1 on a small US tributary that is dry in summer. SW2 - a strong flowing US point on the Marlinstown stream. SW3 1km DS and SW5 DS at side of landfill. Results are given below in table 1 for the most representative US and DS monitoring points.
Yes	No evidence of contamination

**Table 1 Ambient 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
SW2	upstream	SELECT	Ammonia (as N)	Quarterly		SELECT	0.06 - 0.21	mg/L	SELECT	complies with A2 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].
SW2	upstream		Chloride	Quarterly			25 - 39	mg/L		as above
SW2	upstream		BOD	Quarterly			1.0 - 1.0	mg/L		as above
SW3	downstream		Ammonia (as N)	Quarterly			0.19 - 2.15	mg/L		complies with A3 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].
SW3	downstream		Chloride	Quarterly			24.6 - 61	mg/L		as above
SW3	downstream		BOD	Quarterly			1.0 - 2.0	mg/L		as above

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

**Table 2 Visual inspections-Please only enter details where contamination was observed.**

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

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

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

4 Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring [External /Internal Lab Quality](#) Data Reported to the EPA? If no please detail what areas [Assessment of results checklist](#) require improvement in additional information box

Additional information	
SELECT	
SELECT	

**Table 3: 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	Date 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)	% change in mass load from previous year +/-	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**

Additional Information

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

No	
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If yes please summarise your continuous monitoring data below in Table 4 and compare it to its relevant Emission Limit Value (ELV)

6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table 4 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 5 below

SELECT	
--------	--

**Table 4: 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)	% compliance current reporting year	Comments
	SELECT	SELECT		SELECT	SELECT	SELECT					
	SELECT	SELECT		SELECT	SELECT	SELECT					

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

**Table 5: Abatement system bypass reporting table**

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

\*Measures taken or proposed to reduce or limit bypass frequency

**Bund testing** dropdown menu click to see options

Are you required by your licence to undertake integrity testing on bunds and containment structures? if yes please fill out table 1 below listing all bunds and containment structures on site

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)

Yes	Observations of levels in leachate tank indicate that there is No leak
3 years	
No	

**Table 1: Summary details of bund 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 20% of 100% 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 guidelines](#)

5 Are channels/transfer systems to remote containment systems tested?

6 Are channels/transfer systems compliant in both integrity and available volume?

7 Do all sumps and chambers have high level liquid alarms?

8 If yes to Q7 are these failsafe systems included in a maintenance and testing programme?

SELECT	Commentary
SELECT	
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

2 Please provide integrity testing frequency period

SELECT	
SELECT	

**Table 2: Summary details of underground structures/pipeline 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

	Yes	No	N/A	1	2	3	4	5	7	8
reinforced concrete	a)invest in capital improve general purpose concrete	b) operational improvements concrete prefabricated	c)nothing other (please specify)							
Pass	Foul	Process								
Stem	ceramic	concrete	pvc	polypropylene	other(please specify)	Mix (please specify)				
Double walled piping	Pipe in channel	Other (please specify)								
CCTV	Hydraulic	Air	Combination							
Replaced section	Relined	Repaired crack	Removed obstruction	Other (please describe)						
3 years	Other (please specify)									
Hydraulic test	Structural assessment	Other (please specify)								





## Groundwater /Contaminated land summary report

					Comments
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	yes				10 No. monitoring boreholes around site.
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 Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12	Possible				Unlined Landfill - leachate seeping to groundwater
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				Leachate is pumped off site and Phase 2 capping works are underway.
7 Please specify the proposed time frame for the remediation strategy	yes				Capping works to be completed by April 2012.
8 Is there a licence condition to carry out/update ELRA for the site?	no				
9 Has any type of risk assesment been carried out for the site?	yes				In 2005 a risk assesment was carried out.
10 Has a Conceptual Site Model been developed for the site?	yes				Part of the risk assesment 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	GTV's*	SW EQS	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
Quarterly	BH31	Ammonia		Quarterly	0.13	0.1	mg/l		A1	0	no
Quarterly	BH31	Chloride		Quarterly	14.1	13.5	mg/l		A1	0	no
Quarterly	BH31	TOC		Quarterly	1.7	1.2	mg/l		A1	-37	no
Quarterly	BH32	Ammonia		Quarterly	0.35	0.28	mg/l		A2	19	yes
Quarterly	BH32	Chloride		Quarterly	18.1	18.6	mg/l		A1	0	no
Quarterly	BH32	TOC		Quarterly	2	1.9	mg/l		A1	-56	no

.+ where average indicates arithmetic mean

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

**Table 2: Downgradient Groundwater monitoring results**

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SW EQS	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
Quarterly	BH14	Ammonia		Quarterly	15.2	7.1	mg/l		exceeds A3	120	yes
Quarterly	BH14	Chloride		Quarterly	44	24.6	mg/l		A1	40	yes
Quarterly	BH14	TOC		Quarterly	34	31	mg/l		A1	5	yes
Quarterly	BH15	Ammonia		Quarterly	1.72	1.48	mg/l		A3	-39	no
Quarterly	BH15	Chloride		Quarterly	31.8	25.4	mg/l		A1	-34	no
Quarterly	BH15	TOC		Quarterly	56	39	mg/l		A1	-24	no
							SELECT				SELECT

\* 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)

[Surface water EQS](#)
[Groundwater regulations GTV's](#)
[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 Management Programme (EMP)/Continuous Improvement Programme**

Highlighted cells contain dropdown menu click to view

Additional Information

1	Do you maintain an Environmental Mangement System 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 and the collection of leachate.
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	The main objectives for 2012 are : 1) To complete the permanent capping of Phase 2 of the landfill. 2) Install replacement monitoring gas wells in landfill perimeter. 3) Extract gas continously from landfill to prvent any possible migration off - site.
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	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	Permanent capping of Phase 2	80	Works started in August 2011.	Section Head	Increased compliance with licence conditions
Reduction of emissions to Air	New gas extraction wells installed.	100	Works completed	Section Head	Installation of infrastructure
Groundwater protection	Construction of perimeter leachate interceptor drain in Phase 2 of Landfill.	100	Works completed	Section Head	Increased compliance with licence conditions

**Noise Monitoring Report Summary**

- 1 Was noise monitoring a licence requirement for the AER period?  
If yes please fill in table 1 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? [Draft Noise Guidance](#)
- 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 1: 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

- 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	
None carried out in recent years	Landfill closed so minimal activities on site. Air compressor and flare blower the main users of power.
yes	EnergyMap
SELECT	

Energy Use	Previous year kWh	Current year kWh	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total				
Electricity	24,156	35,718		
Fossil Fuels:				
Heavy Fuel Oil				
Light Fuel Oil				
Natural gas				
Coal/Solid fuel				
Renewable energy generated on site				

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

Water use	Previous year m3/yr.	Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Groundwater	0	0		
Surface water	0	0		
Public supply	not measured -very low	not measured -very low		
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

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					

**SECTION A-PRTR WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES** PRTR facility [login](#) 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

Additional Information

No Landfill closed

SELECT

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)**

Licensed annual tonnage limit for your site (total tonnes/annum)	EWIC code	Source of waste accepted	Description of waste accepted <i>Please enter an accurate and detailed description - which applies to European Waste Catalogue EWIC codes</i>	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 -
E.g.	07 05 04*	07- WASTES FROM ORGANIC CHEMICAL PROCESSES	other organic solvents, washing liquids and mother liquors	22	12	83%		0%	SELECT		Brought onto site from sister IPPC plant
E.g.	20 01 08	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	biodegradable kitchen and canteen waste	10	20	-50%		0%	SELECT		
		SELECT							SELECT		
		SELECT							SELECT		

**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

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

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?

SELECT

SELECT

SELECT

SELECT

SELECT

SELECT

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

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

Waste types permitted for disposal	Authorised/licensed annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments
e.g. Household (residual)	30,000	22,000		
e.g. Industrial non hazardous solids	500	60	120,000	
None			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
Whole landfill	1963	2002	No	Public	Non Hazardous		No	No	No	8 hectares	0	0	Unlined landfill

**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
Yes	Yes	Yes	Yes	Yes	Yes	No	No	Monitoring is carried 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
SELECT UNIT	SELECT UNIT					
0.2 ha		7 ha		2 ha	A permeable geocomposite layer, 800mm subsoil and 200mm top soil.	Capping work in progress, should be completed by April 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?

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
293,000 m3 CH4			No	Gas flared off using 500 m3/hr flare





[Guidance to completing the PRTR workbook](#)

# AER Returns Workbook

Version 1.1.13

<b>REFERENCE YEAR</b>	2011
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## 1. FACILITY IDENTIFICATION

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

Waste or IPPC Classes of Activity	
No.	class_name
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.
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.
3.6	Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1. to 10. of this Schedule.
3.7	#####
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.
4.9	Use of any waste principally as a fuel or other means to generate energy.
Address 1	Marlinstown Bog
Address 2	Mullingar
Address 3	Co Westmeath
Address 4	
	Westmeath
Country	Ireland
Coordinates of Location	7.29169 53.5229
River Basin District	EEA
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
<b>AER Returns Contact Name</b>	John Waldron
<b>AER Returns Contact Email Address</b>	jwaldron@westmeathcoco.ie
<b>AER Returns Contact Position</b>	Senior Executive Technician
<b>AER Returns Contact Telephone Number</b>	044 9332157
<b>AER Returns Contact Mobile Phone Number</b>	087 7853567
<b>AER Returns Contact Fax Number</b>	
<b>Production Volume</b>	0.0
<b>Production Volume Units</b>	
<b>Number of Installations</b>	0
<b>Number of Operating Hours in Year</b>	0
<b>Number of Employees</b>	0
<b>User Feedback/Comments</b>	
<b>Web Address</b>	

## 2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(a)	Installations for the recovery or disposal of hazardous waste
5(c)	Installations for the disposal of non-hazardous waste
50.1	General

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

Is it applicable?	No
Have you been granted an exemption?	
If applicable which activity class applies (as per Schedule 2 of the regulations)?	
Is the reduction scheme compliance route being used?	

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0071 | Facility Name : Marlinstown Landfill | Filename : W0071\_2011(1).xls | Return Year : 2011 |

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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	43000.0	0.0	43000.0
03	Carbon dioxide (CO2)	C	PER	Calculated using Gas sim	0.0	143000.0	0.0	143000.0

\* 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:		Method Used				Facility Total Capacity m3 per hour
Please enter summary data on the quantities of methane flared and / or utilised		M/C/E	Method Code	Designation or Description		
Total estimated methane generation (as per site model)	242000.0	C	PER	Calculated using GasSim	N/A	
Methane flared	199000.0	C	PER	bw/hr by CH4 conc by Sp. Gr.	500.0	(Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section A above)	43000.0	C	PER	Methane generated minus m	N/A	

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0071 | Facility Name : Marlinstown Landfill | Filename : W0071\_2011(1).xls | Return Year : 2011 |

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Please enter all quantities on this sheet in Tonnes

3

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: Name and Licence/Permit No of Recover/Disposer	Haz Waste: Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	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					
Within the Country	19 07 03	No	2412.0 in 19 07 02	landfill leachate other than those mentioned	D8	M	Volume Calculation	Offsite in Ireland	Mullingar Waste Water Treatment Plant,D 0008 -01	Clonmore,Mullingar ,Co Westmeath,..,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](#)

