

**Facility Information Summary**

AER Reporting Year	2013
Licence Register Number	W0021-02
Name of site	Derrinnumera Landfill Site
Site Location	Newport, Co. Mayo
NACE Code	A3
Class/Classes of Activity	Class 5 & Class 2,3 &4
National Grid Reference (6E, 6 N)	293525 E, 104250 N

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 cap is now installed on the landfill with main activity the operation of the CA site and removal of leachate.

**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.

Killian Farrell	28 /3/14
Signature	Date
Group/Facility manager	
(or nominated, suitably qualified and experienced deputy)	



**AIR-summary template** Lic No: W0021-02 Year

	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

\* this should include all dates that an abatement system bypass occurred

\*\* an accurate record of time bypass beginning and end should be logged on site and maintained for future Agency inspections please refer to bypass protocol link

**Solvent use and management on site**

8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5

SELECT	
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<b>Table A4: 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	Total VOC emissions as %of solvent	Total Emission Limit Value (ELV) in licence or any revision thereof	Compliance

Additional information

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 licensed emissions you only need to complete table W1 and or W2 for surface water analysis and visual inspections

No	
Yes	No evidence of contamination. Additional silt traps and oil booms installed in SW drains during construction works as a precautionary measure.

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

Table W1 Surface water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licensed Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Average value	Unit of measurement	Compliant with licence	Comments
SW1	upstream		BOD mg/l	average		N/A	1	mg/L		
SW1	upstream		Suspended Solids mg/l	average		N/A	20.58	mg/L		
SW1	upstream		pH	average		N/A	5.99	pH units		
SW1	upstream		Conductivity @20C uS/cm	average		N/A	122.21	µS/cm @20oC		
SW1	upstream		Ammonia as NH3-N mg/l	average		N/A	0.09	mg/L		
SW1	upstream		Total Phosphorus as P mg/l	average		N/A	0.07	mg/L		
SW1	upstream		Dissolved Oxygen (%)	average		N/A	63.48			
SW1	upstream		Orthophosphate as PO4-P mg/l	average		N/A	0.01	mg/L		
SW1	upstream		Dissolved Oxygen (mg/l)	average		N/A	6.265	mg/L		
SW2	downstream		BOD mg/l	average		N/A	1	mg/L		
SW2	downstream		Suspended Solids mg/l	average		N/A	4.67	mg/L		
SW2	downstream		pH	average		N/A	7.04	pH units		
SW2	downstream		Conductivity @20C uS/cm	average		N/A	245.75	µS/cm @20oC		
SW2	downstream		Ammonia as NH3-N mg/l	average		N/A	0.89	mg/L		
SW2	downstream		Total Phosphorus as P mg/l	average		N/A	0.06	mg/L		
SW2	downstream		Dissolved Oxygen (%)	average		N/A	68.01			
SW2	downstream		Orthophosphate as PO4-P mg/l	average		N/A	0.01	mg/L		
SW2	downstream		Dissolved Oxygen (mg/l)	average		N/A	6.79	mg/L		
	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)

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

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

[Assessment of External /Internal Lab Quality checklist](#) [results checklist](#)

SELECT	Additional information
SELECT	

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 <sup>Note 2</sup>	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT			

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

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

Continuous monitoring

Additional Information

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

Lic No: W0021-02

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

No

**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**

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 licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission for current reporting year (kg)
	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	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 B1 below listing all **new bunds and containment structures** on site, in addition to all bunds which failed the integrity test-**all bunding structures which failed including mobile bunds must be listed in the table below**

1 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)

2 How many bunds are on site?  
 3 How many of these bunds have been tested within the required test schedule?  
 4 How many mobile bunds are on site?  
 5 Are the mobile bunds included in the bund test schedule?  
 6 How many of these mobile bunds have been tested within the required test schedule?  
 7 How many sumps on site are included in the integrity test schedule?  
 8 How many of these sumps are integrity tested within the test schedule?

**Please list any sump integrity failures in table B1**

9 Do all sumps and chambers have high level liquid alarms?  
 10 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?

Additional information

Yes	
3 years	
No	
6	3 leachate tanks, 1 chemstore, 2 leachate recirculation tanks.
4	
0	
SELECT	
0	
0	
No	

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)
Tank 1	reinforced concrete		leachate	450m3		Hydraulic test		2013	Yes	Pass		SELECT		
Tank 2	reinforced concrete		leachate	450m3		Hydraulic test		2013	Yes	Pass				
Tank 3	reinforced concrete		leachate	450m3		Hydraulic test		2013	Yes	Pass				
chemstore	prefabricated		household haz material			Structural assessment			No					
Cell 1 recirculation tank	prefabricated		leachate	2.5 m3		Hydraulic test			No					
Cell 2 recirculation tank	prefabricated		leachate	2.5m3		Hydraulic test		2012	No	SELECT		SELECT		

\* Capacity required should comply with 25% or 110% containment rule as detailed in your licence  
 Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?  
 14 Are channels/transfer systems to remote containment systems tested?  
 15 Are channels/transfer systems compliant in both integrity and available volume?

Commentary

Yes	
No	
No	

**Pipeline/underground structure testing**

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

1 Please provide integrity testing frequency period

No	
SELECT	

**Table B2: Summary details of pipeline/underground structures integrity test**

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

Please use commentary for additional details not answered by tables/ questions above

		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	Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12	yes
5	Is the contamination related to operations at the facility (either current and/or historic)	yes historic
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	yes Installation of cut-off wall around
7	Please specify the proposed time frame for the remediation strategy	N/A Continuous
8	Is there a licence condition to carry out/update ELRA for the site?	yes
9	Has any type of risk assessment been carried out for the site?	yes
10	Has a Conceptual Site Model been developed for the site?	no due in 2014
11	Have potential receptors been identified on and off site?	yes
12	Is there evidence that contamination is migrating offsite?	yes A possibility at low levels

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	IGV	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
	MW1A	pH	accredited laboratory	quarterly	7.1	6.95	ph units		>6.5 <9.5		SELECT
	MW1A	Conductivity @20C uS/cm	accredited laboratory	quarterly	703	607.75	uS/cm		1000		
	MW1A	Ammonia as NH3-N mg/l	accredited laboratory	quarterly	0.151	0.0795	mg/l		0.15		
	MW1A	Total Phosphorus as P mg/l	accredited laboratory	quarterly	0.05	0.05	mg/l				
	MW1A	Sodium, total mg/l	accredited laboratory	quarterly	20	19	mg/l		150		
	MW1A	Chloride mg/l	accredited laboratory	quarterly	332	103.225	mg/l		30		
	MW1A	Dissolved Oxygen (%)	accredited laboratory	quarterly	52.2	39.15	%		No significant change		
	MW1A	Potassium, total mg/l	accredited laboratory	quarterly	15	5.75	mg/l		5		
	MW1A	Orthophosphate as PO4-P mg/l	accredited laboratory	quarterly	0.01	0.01	mg/l		0.03		
	MW1A	Dissolved Oxygen (mg/l)	accredited laboratory	quarterly	4.45	3.9225	mg/l		No significant change		
	MW1A	TON as N mg/l	accredited laboratory	quarterly	0.01	0.01	mg/l		No significant change		
	MW1A	TOC mg/l	accredited laboratory	quarterly	2.94	2.195	mg/l		n/a		

.+ 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

## Groundwater/Soil monitoring template

Lic No:

W0021-02

Year

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	IG
	MW24	<b>pH</b>	accredited laboratory	quarterly	6.8	6.675	ph units		>6.5 <9.
	MW24	<b>Conductivity @20C uS/cm</b>	accredited laboratory	quarterly	3280	2415	uS/cm		
	MW24	<b>Ammonia as NH3-N mg/l</b>	accredited laboratory	quarterly	125	96.1	mg/l		
	MW24	<b>Total Phosphorus as P mg/l</b>	accredited laboratory	quarterly	0.35	0.2575	mg/l		
	MW24	<b>Sodium, total mg/l</b>	accredited laboratory	quarterly	294	273.75	mg/l		
	MW24	<b>Chloride mg/l</b>	accredited laboratory	quarterly	511	457.75	mg/l		
	MW24	<b>Dissolved Oxygen (%)</b>	accredited laboratory	quarterly	22	14.825	%		No signi
	MW24	<b>Potassium, total mg/l</b>	accredited laboratory	quarterly	53	47.5	mg/l		
	MW24	<b>Orthophosphate as PO4-P mg/l</b>	accredited laboratory	quarterly	0.01	0.01	mg/l		
	MW24	<b>Dissolved Oxygen (mg/l)</b>	accredited laboratory	quarterly	1.92	1.1975	mg/l		No signi
	MW24	<b>TON as N mg/l</b>	accredited laboratory	quarterly	0.01	0.01	mg/l		No signi
	MW24	<b>TOC mg/l</b>	accredited laboratory	quarterly	93.5	49.2	mg/l		n/a

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

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

Groundwater  
[Surface water EQS](#)  
[regulation](#)  
[GTV](#)



**Environmental Liabilities template**

Lic No:

W0021-02

Year

2013

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

2013

		Commentary	
1	ELRA initial agreement status	Submitted and agreed by EPA	
2	ELRA review status	Review required and not completed;	Review date has not been reached
3	Amount of Financial Provision cover required as determined by the latest ELRA	€8,970,000	
4	Financial Provision for ELRA status	Required but not submitted	Quotation sought form IPB insurance, awaiting response
5	Financial Provision for ELRA - amount of cover	€8,970,000	
6	Financial Provision for ELRA - type	Insurance with Environmental Impairment Liability cover,	The final cap is now installed on the landfill with mai
7	Financial provision for ELRA expiry date	Enter expiry date	Not applicable at this time
8	Closure plan initial agreement status	Closure plan submitted and agreed by EPA	
9	Closure plan review status	Review required and not completed	Not required until 2014
10	Financial Provision for Closure status	Submitted and agreed by EPA	
11	Financial Provision for Closure - amount of cover	Specify	Landfill is closed and final cap installed
12	Financial Provision for Closure - type	Other please specify	Paid
13	Financial provision for Closure expiry date	Enter expiry date	N/A

**Environmental Management Programme/Continuous Improvement Programme template**

Lic No:

W0021-02

Year

2013

Highlighted cells contain dropdown menu click to view

Additional Information

1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes	environmental records are stored in the public office for inspecti

**Environmental Management Programme (EMP) report**

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Reduction of emissions to Wastewater	Reduce leachate generation	100	Final cap installed	Section Head	Reduced emissions
Energy Efficiency/Utility conservation	Install gas utilisation plant	80	Grid connection approved + c	Section Head	None at present

## Noise monitoring summary report

Lic No: W0021-02

Year

2013

2013

1 Was noise monitoring a licence requirement for the AER period?

Yes

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](#)

Yes

3 Does your site have a noise reduction plan

No

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?

Yes

The final cap is now installed on the landfill with main activity the operation of the CA site and removal of leachate.

**Table N1: Noise monitoring summary**

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA <sub>eq</sub>	LA <sub>90</sub>	LA <sub>10</sub>	LA <sub>max</sub>	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is site compliant with noise limits (day/evening/night)?
28/11/2013	30 mins	N2		40	32.6	42	66.8	No	No		Yes
28/11/2013	30 mins	N5		35.1	<30	36.8	56.9	No	No		Yes
28/11/2013	30 mins		N1 main road	69.6	32.2	72.4	87.5	No	No	Traffic noise dominant	
28/11/2013	30 mins		N6 Nearest dw	58.6	<30	63.6	74	No	No	Traffic noise dominant	

\*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?

SELECT

\*\* please explain the reason for not taking action/resolution of noise issues?

The landfill operations ceased in April 2012. This resulted in a large reduction in HGV traffic to the site. The landfill compactor was removed from site further reducing noise associated with the landfill.

2013

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  
 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information
- 2
- 3

no	
SELECT	N/A

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	installed on the landfill with main activity the operation of the CA
Total Energy Used (MWHrs)			0	
Total Energy Generated (MWHrs)	0	0	0	
Total Renewable Energy Generated (MWHrs)	0	0	0	
Electricity Consumption (MWHrs)	198033	181918		
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	29715.04	4.88		
Light Fuel Oil (m3)	39.87	0.0543		
Natural gas (CMN)	0	0		
Coal/Solid fuel (metric tonnes)	0	0		
Peat (metric tonnes)	0	0		
Renewable Biomass	0	0		
Renewable energy generated on site	0	0		

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

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

Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Water Emissions		Water Consumption	
					Volume Discharged back to environment(m <sup>3</sup> /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:	
Groundwater	0	0						
Surface water	473	0				0		
Public supply	150	150		0				
Recycled water	0	0						
Total								

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

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

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

**Resource Usage/Energy efficiency summary**

Lic No:

W0021-02

Table R4: Energy Audit finding recommendations						
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility
			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:
Cell 2	Nov-05	20/04/2012	No	Public	Non Hazardous

**Table 4 Environmental monitoring-landfill on** [Landfill Manual-Monitoring Standards](#)

Was meterological 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)
Yes	Yes	n/a	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
SELECT UNIT	SELECT UNIT				
0	0	39000 m2	approx 42,000	39000	1mm ldppe liner and 1m/.5m soil

\*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?

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
32,673.48	2401.5	5766.86	see comment	5399.29	none

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**

Was surface emissions monitored	Were emissions from the site measured	Were emissions from the site measured	Were emissions from the site measured





[Guidance to completing the PRTR workbook](#)

# AER Returns Workbook

Version 1.1.17

<b>REFERENCE YEAR</b>	2013
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## 1. FACILITY IDENTIFICATION

Parent Company Name	Mayo County Council
Facility Name	Derrinnumera Landfill Facility
PRTR Identification Number	W0021
Licence Number	W0021-03

### Waste or IPPC Classes of Activity

No.	class_name
3.1	Deposit on, in or under land (including landfill). 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.
3.13	Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.
3.5	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.
3.6	Schedule.
3.7	##### 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.
4.13	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.2	Recycling or reclamation of metals and metal compounds.
4.3	Recycling or reclamation of other inorganic materials.
4.4	
Address 1	Derrinnumera/Drumiltra (Townlands)
Address 2	Newport
Address 3	County Mayo
Address 4	
	Mayo
Country	Ireland
Coordinates of Location	-7.4634 53.8497
River Basin District	IEWE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
<b>AER Returns Contact Name</b>	Killian Farrell
<b>AER Returns Contact Email Address</b>	kfarrell@mayococo.ie
<b>AER Returns Contact Position</b>	Deputy Landfill manager
<b>AER Returns Contact Telephone Number</b>	098 41632
<b>AER Returns Contact Mobile Phone Number</b>	087 9155475
<b>AER Returns Contact Fax Number</b>	098 41676
<b>Production Volume</b>	0.0
<b>Production Volume Units</b>	
<b>Number of Installations</b>	1
<b>Number of Operating Hours in Year</b>	0
<b>Number of Employees</b>	5
<b>User Feedback/Comments</b>	Error above Licence number is W0021-02.
<b>Web Address</b>	

## 2. PRTR CLASS ACTIVITIES

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

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

Is it applicable?	
Have you been granted an exemption ?	
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

## 4. WASTE IMPORTED/ACCEPTED ONTO SITE

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

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	
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This question is only applicable if you are an IPPC or Quarry site

**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

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	OTH	calculated from flare		16302.26	16302.26	0.0	0.0
03	Carbon dioxide (CO2)	M	CRM	Gassim		2557744.4	2557744.4	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**

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:		Derrinnumera Landfill Facility			
Please enter summary data on the quantities of methane flared and / or utilised		T (Total) kg/Year	M/C/E	Method Used	Facility Total Capacity m3 per hour
			Method Code	Designation or Description	
Total estimated methane generation (as per site model)		878417.26	M	CRM	N/A
Methane flared		862115.0	C	OTH	250.0 (Total Flaring Capacity)
Methane utilised in engine/s		0.0			0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)		16302.26	C	OTH	Calculated from flare

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

[ PRTR# : W0021 | Facility Name : Derrinunera Landfill Facility | Filename : AER w0021\_02\_2013.xls | Return Year : 2013 ]

31/03/2014 10:53

Please enter all quantities on this sheet in Tonnes

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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 Haz Waste: Name and Licence/Permit No of Recover/Disposer	Non- 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	02 01 04	No	46.5	Farm Plastic	R3	M	Weighed	Offsite in Ireland	IFPPG,Exempt	Waverly Road,,Dublin,,10,Ireland		
Within the Country	15 01 02	No	19.7	plastic packaging	R3	M	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Carrowbrowne Headford Road ,,Galway,,Ireland		
Within the Country	15 01 02	No	25.08	plastic packaging	R3	M	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Carrowbrowne Headford Road ,,Galway,,Ireland		
Within the Country	16 01 03	No	12.52	end-of-life tyres	R5	M	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Carrowbrowne Headford Road ,,Galway,,Ireland		
Within the Country	16 01 07	Yes	0.6	oil filters	R9	M	Weighed	Offsite in Ireland	RILTA,W0192-02	Grants Drive,402 Greenogue Business Park rathcoole,Dublin,,Ireland	ENVA,W0184-01,Clonminam Industrial estate,,Portlaoise Co. Laois,,Ireland	,,,,,Ireland
To Other Countries	16 05 04	Yes	0.9	gases in pressure containers (including halons) containing dangerous substances	R4	M	Weighed	Abroad	Ecosafe systems(SRCL),W0054-02	Unit 1A Allied Industrial Estate Kylemore Road,,Dublin,,10,Ireland	Recyfuel SA,BE 459735458,Zoning Industrial dHein,,Engis,B4480,Belgium	,,,,,Belgium
Within the Country	17 08 02	No	18.04	gypsum-based construction materials other than those mentioned in 17 08 01	R5	M	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Carrowbrowne Headford Road ,,Galway,,Ireland		
Within the Country	19 07 03	No	24408.44	landfill leachate other than those mentioned in 19 07 02	D9	M	Weighed	Offsite in Ireland	Rathroen landfill site,W0067-02	Killala Road,,Ballina Co.Mayo,,Ireland		
Within the Country	20 01 01	No	177.94	paper and cardboard	R3	M	Weighed	Offsite in Ireland	Bourke Waste,wfp/mo/08/0004/01	Clogher,,Westport,,Ireland		
Within the Country	20 01 01	No	106.76	paper and cardboard	R3	M	Weighed	Offsite in Ireland	Bourke Waste,wfp/mo/08/0004/01	Clogher,,Westport,,Ireland		
Within the Country	20 01 02	No	68.28	glass	R5	M	Weighed	Offsite in Ireland	Rehab Recycling,03//02	Ballymount,,Dublin,,Ireland		
Within the Country	20 01 02	No	7.6	glass	R5	M	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Carrowbrowne Headford Road ,,Galway,,Ireland		
Within the Country	20 01 10	No	16.44	clothes	R3	M	Weighed	Offsite in Ireland	Textile Recycling Ltd,WPR - 014	Unit 504A Greenogue Business Park Rathcoole,Dublin,24,Ireland		
Within the Country	20 01 21	Yes	1.032	fluorescent tubes and other mercury-containing waste	R4	M	Weighed	Offsite in Ireland	KMK metal,W0113-02	Cappincur Industrial estate,Daingean Road,Tullamore Co. Offaly,,Ireland	KMK metal,W0113-02,Cappincur Industrial estate Daingean road,,Tullamore Co. Offaly,,Ireland	,,,,,Ireland
Within the Country	20 01 23	Yes	18.978	discarded equipment containing chlorofluorocarbons	R4	M	Weighed	Offsite in Ireland	KMK metal,W0113-02	Cappincur Industrial estate,Daingean Road,Tullamore Co. Offaly,,Ireland	KMK metal,W0113-02,Cappincur Industrial estate Daingean road,,Tullamore Co. Offaly,,Ireland	,,,,,Ireland
Within the Country	20 01 25	No	0.82	edible oil and fat	R3	M	Weighed	Offsite in Ireland	Frylite,CW227	Kilcolgan,,Galway,,Ireland		
Within the Country	20 01 26	Yes	5.56	oil and fat other than those mentioned in 20 01 25	R9	M	Weighed	Offsite in Ireland	RILTA,W0192-02	Grants Drive,402 Greenogue Business Park rathcoole,Dublin,,Ireland	ENVA,W0184-01,Clonminam Industrial estate,,Portlaoise Co. Laois,,Ireland	,,,,,Ireland
To Other Countries	20 01 27	Yes	14.96	paint, inks, adhesives and resins containing dangerous substances	R1	M	Weighed	Abroad	Ecosafe systems(SRCL),W0054-02	Unit 1A Allied Industrial Estate Kylemore Road,,Dublin,,10,Ireland	Recyfuel SA,BE 459735458,Zoning Industrial dHein,,Engis,B4480,Belgium	,,,,,Belgium

Within the Country	20 01 33	Yes	5.22	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	R4	M	Weighed	Offsite in Ireland	RILT
Within the Country	20 01 33	Yes	1.23	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	R4	M	Weighed	Offsite in Ireland	KMK
Within the Country	20 01 34	No	1.61	batteries and accumulators other than those mentioned in 20 01 33	R4	M	Weighed	Offsite in Ireland	KMK
Within the Country	20 01 36	No	73.659	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK
Within the Country	20 01 36	No	58.729	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK
<b>Within the Country</b>	<b>20 01 36</b>	<b>No</b>	24.04	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK
Within the Country	20 01 39	No	0.32	plastics	R3	M	Weighed	Offsite in Ireland	Barr
Within the Country	20 01 39	No	39.01	plastics	R3	M	Weighed	Offsite in Ireland	Barr Galv
Within the Country	20 01 40	No	26.79	metals	R4	M	Weighed	Offsite in Ireland	000
Within the Country	20 01 40	No	6.45	metals	R4	M	Weighed	Offsite in Ireland	Barr Galv
Within the Country	20 01 40	No	108.47	metals	R4	M	Weighed	Offsite in Ireland	000
Within the Country	20 01 99	No	4.08	other fractions not otherwise specified	R3	M	Weighed	Offsite in Ireland	Barr

## A survey of landfill sites to determine the quantity of methane flared and or recovered in utilisation plants for 2013

Please choose from the drop down menu the license number for your site	<input type="text" value="W0021"/>
Please choose from the drop down menu the name of the landfill site	<input type="text" value="Derrinnumera Landfill Facility"/>
Please enter the number of flares operational at your site in 2013	<input type="text" value="1"/>
Please enter the number of engines operational at your site in 2013	<input type="text" value="0"/>
Total methane flared	<input type="text" value="862,115"/> kg/year
Total methane utilised in engines	<input type="text" value="0"/> kg/year

**Please note that the closing date for receipt of completed surveys is 31/03/2014**

### Introduction

The Office of Climate Licensing and Resource Use (OCLR) of the Environmental Protection Agency acts as the inventory agency in Ireland with responsibility for compiling and reporting national greenhouse gas inventories to the European Commission and the United Nations Framework Convention on Climate Change. In addition to meeting international commitments Ireland's national greenhouse gas inventory informs national agencies and Government departments as they face the challenge to curb emissions and meet Ireland's targets under the Kyoto Protocol. The national inventory also informs data suppliers, making them aware of the importance of their contributions to the inventory process and a means of identifying areas where input data may be improved.

It is on this basis that the Environmental Protection Agency is asking landfill operators to partake in this survey so that the most up to date information on methane flaring and recovery in utilisation plants at landfill sites is used in calculating the contribution of the waste sector to national greenhouse gas emissions

The Environmental Protection Agency wishes to thank you for partaking in this survey. If you have any questions about the survey and how to complete it please view the "Help sheet" worksheet. If however, your query is not answered by viewing the "Help sheet" worksheet please contact:

[LFGProject@epa.ie](mailto:LFGProject@epa.ie)

Once completed please send the completed file as an attachment clearly stating the name and or license number of the landfill site (e.g. W000 Xanadu landfill\_2013) to:

[LFGProject@epa.ie](mailto:LFGProject@epa.ie)

to be filled in by licensee	calculated by spreadsheet
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**Flare No. 1**

Flare type ?  If "other" enter flare description here

Is the flare an open or enclosed flare ?  Rated flare capacity ?  m3/hr

Month /year comissioned ?

Month decomissioned if decomissioned in 2013 ?

What is the function of the flare ?  If "other" enter flare function here

Monthly	Method M/C/E	Runtime days/month	Runtime hrs/day	Downtime hrs	Total runtime hrs/month	Average Inlet Pressure (mbg)	Average Flow Rate (m <sup>3</sup> /hr)	Average CH <sub>4</sub> %v/v	Average CO <sub>2</sub> %v/v	Average O <sub>2</sub> %v/v	Combustion efficiency (%)	Total CH <sub>4</sub> m <sup>3</sup>	Total CH <sub>4</sub> kgs
January	MCE	31	24.0		744	-50	220	60.00	35.00	1.00	98.0	96,244	63,172
February	MCE	28	24.0	3.5	669	-8	220	60.00	35.00	1.00	98.0	86,477	59,237
March	MCE	31	24.0		744	-8	220	60.00	35.00	1.00	98.0	96,244	65,927
April	MCE	30	24.0		720	-8	220	60.00	35.00	1.00	98.0	93,139	63,800
May	MCE	31	24.0	1.0	743	-20	250	60.00	35.00	1.00	98.0	109,221	73,923
June	MCE	30	24.0		720	-20	250	60.00	35.00	1.00	98.0	105,840	71,635
July	MCE	31	24.0		744	-20	250	60.00	35.00	1.00	98.0	109,368	74,023
August	MCE	31	24.0		744	-20	250	60.00	35.00	1.00	98.0	109,368	74,023
September	MCE	30	24.0	1.0	719	-10	270	60.00	36.00	1.00	98.0	114,148	78,036
October	MCE	31	24.0		744	-10	270	60.00	36.00	1.00	98.0	118,117	80,749
November	MCE	30	24.0		720	-10	270	60.00	36.00	1.00	98.0	114,307	78,144
December	MCE	31	24.0	12.0	732	-10	270	60.00	36.00	1.00	98.0	116,212	79,447
Total					8,743							1,268,686	862,115

**Please note: Only fill the "Yearly" table if data is not available or cannot be calculated nor estimated on a monthly basis**

Yearly	Method M/C/E	Runtime days/year	Runtime hrs/day	Downtime hrs	Total runtime hrs/year	Average Inlet Pressure (mbg)	Average Flow Rate m <sup>3</sup> /hr	Average CH <sub>4</sub> %v/v	Average CO <sub>2</sub> %v/v	Average O <sub>2</sub> %v/v	Combustion efficiency (%)	Total CH <sub>4</sub> m <sup>3</sup>	Total CH <sub>4</sub> kgs
<b>2013</b>					0						98.0	0	0