Facility Information Summary			
AER Reporting Year	2013		
Licence Register Number	W0021-02		
Name of site	D	errinumera 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 <b>and an overview of</b> <b>compliance with your licence</b> <u>listing all</u> <u>exceedances of licence limits (where</u> <u>applicable) and what they relate to e.g. air,</u> <u>water, noise.</u>	The final cap is now	r installed on the landfill with main a	activity the operation of the CA site and removal of
	The final cap is now	installed on the landfill with main a leacha	activity the operation of the CA site and removal of ate.

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

AIR-summary template	Lic No:	W0021-02	Year	2013	
Answer all questions and complete all tables where relevant					

Additional information

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

	Periodic/Non-Continuous Monitoring			
2	Are there any results in breach of licence requirements? If section of TableA1	yes please provide brief details in the comment I below	The final cap is nov	
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	SELECT	

No

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

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision therof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
	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

### 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)

<sup>5</sup> 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?
 Did your site experience any abatement system bypasses? If yes please detail them in table 4 below
 Table A2: Summary of auorana omissions: constituuous monitoring

SELECT	
SELECT	
/3/1	

Table Az. Summar	y of average emissions -continuous	monitoring

Emission	Parameter/ Substance		Averaging	Compliance Criteria	Units of	Annual Emission	Annual maximum	Monitoring	Number of ELV	Comments
reference no:			Period		measurement			Equipment	exceedences in	
		ELV in licence or						downtime (hours)	current	
		any revision							reporting year	
		therof								

AIR-summary template					Lic No:	W0021-02	Year	
	SELE	ECT			SELECT	SELECT		
	SELE	ECT				SELECT		
	SELE	ECT				SELECT		
	SELE	ECT				SELECT		
	SELE	ECT				SELECT		

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

Table A3:	able 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

Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5       Solvent management Plan Summary       Solvent regulations to complete table 5 and 6         Total VOC Emission limit value       Complete table 5 and 6         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 theref	Solvent	use and managemen	it on site					
Total VOC Emission limit value       Total VOC       Total VOC       Total VOC       Total VOC         Reporting year       Total solvent input on site (kg)       Total VOC       Total VOC       Total Emission Limit Value       Compliance         Keporting year       Total solvent input on site (kg)       Total VOC       Total VOC       Total Emission Limit Value       Compliance         Keporting year       Total solvent input on site (kg)       Total VOC       Total VOC       Total Emission Limit Value       Compliance	Do you have a tota	al Emission Limit Value of c	direct and fugitive	emissions on si	te? if yes please fill out tables A4 Please refer to linked solver	and A5	Ş	SELECT
Reporting year       Total solvent input on site (kg)       Total VOC emissions to Air from entire site       Total VOC emissions as from entire site       Total Emission Limit Value (ELV) in licence or any revision       Compliance	Total VOC Emi	ission limit value	an Summaly	regulations	complete table 5	and 6		
	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 therof	Compliance		

	AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)
1	

#### W0021-02 Additional information

Lic No:

2013

Year

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

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

 Was it a requirement of your licence to carry out visual inspections on any surface water discharges or

 watercourses on or near your site? If yes please complete table W2 below summarising <u>only any</u>

 evidence of contamination noted during visual inspections

installed in SW drains during construction works as a precautionary measure.

### Table W1 Surface water monitoring

1

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	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/I	average		N/A	0.09	mg/L		
SW1	upstream		Total Phosphorus as P mg/I	average		N/A	0.07	mg/L		
SW1	upstream		Dissolved Oxygen (%)	average		N/A	63.48			
SW1	upstream		Orthophosphate as PO4-P mg/I	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/I	average		N/A	0.89	mg/L		
SW2	downstream		Total Phosphorus as P mg/I	average		N/A	0.06	mg/L		
SW2	downstream		Dissolved Oxygen (%)	average		N/A	68.01			
SW2	downstream		Orthophosphate as PO4-P mg/I	average		N/A	0.01	mg/L		
SW2	downstream		Dissolved Oxygen (mg/l)	average		N/A	6.79	mg/L		
1	SELECT	SELECT	SELECT		1	SELECT		SELECT	SELECT	

Yes

\*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 requiremen section of Ta	ts? If yes please provide brief details in the comment ble W3 below	SELECT	Additional information
١	Nas all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous			
4	detail what areas require improvement in additional information box	Assessment of External /Internal Lab Quality checklist results checklist	SELECT	

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

Emission	Emission	Parameter/		Frequency of		ELV or trigger values in licence or any revision			Unit of	Compliant with		Procedural	Procedural reference	Annual mass load	
reference no:	released to	SubstanceNote 1	Type of sample	monitoring	Averaging period	therof <sup>Note 2</sup>	Licence Compliance criteria	Measured value	measurement	licence	Method of analysis	reference source	standard number	(kg)	Comments
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT			
														1	
														(	1
Noto 1: Volumet	tric flow shall be in	cluded as a reportable	naramotor												

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

	<b>AER Monitor</b>	ing returns su	mmary template-	WATER/WASTEWATER(SEWER	)		Lic No:	W0021-02
5	Does your site ca	arry out continuou	us emissions to water/s	sewer monitoring?		No		
	If yes please sur Emission Limit V	nmarise your con alue (ELV)	tinuous monitoring da	ita below in Table W4 and compare it t	o its relevant			
6	Did continuous n	nonitoring equipn	nent experience downt	ime? If yes please record downtime in	table W4 below	SELECT		
7	Do you have a pr	oactive service co	ontract for each piece o	f continuous monitoring equipment on	site?	SELECT		
8	Did abatement s	ystem bypass occi	ur during the reporting	year? If yes please complete table W5	below	SELECT		
	Table W4: Su	mmary of ave	erage emissions -c	ontinuous monitoring				
	Emission	Emission	Parameter/	ELV or trigger values in licence or any	Averaging	Compliance	Units of	Annual Emission for cur
	reference no:	SELECT			SELECT	SELECT	SELECT	reporting year (kg)
		JLLLUI	JELEUT		JELEUT	JELEUT	JLLLOI	

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

SELECT

SELECT

# Table W5: Abatement system bypass reporting table

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

SELECT

SELECT

SELECT

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

Bund/Pipeline testing template	Lic No:	W0021-02		Year	201	3		
Bund testing dropdown menu click to see options			Additional information	-				
Are you required by your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below list	ting 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 l	bunds must be listed in the							
table below		Yes						
2 Please provide integrity testing frequency period		3 years						
Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers	s refers to "Chemstore" type							
3 units and mobile bunds)		No						
4 How many bunds are on site?			5 3 leachate tanks, 1 chemstore, 2 leach	hate recirculation tan	ks.			
5 How many of these bunds have been tested within the required test schedule?			1					
6 How many mobile bunds are on site?			0					
7 Are the mobile bunds included in the bund test schedule?		SELECT						
8 How many of these mobile bunds have been tested witin the required test schedule?								
9 How many sumps on site are included in the integrity test schedule?			0					
10 How many of these sumps are integrity tested within the test schedule?			0					
Please list any sump integrity failures in table B1				-				
11 Do all sumps and chambers have high level liquid alarms?		No		7				
12 If yes to 011 are these fails afe systems included in a maintenance and testing programme?								
				-				

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

Cent 2 Exact Construct ratios. The pre-transment rule as database in your force Capacity regardly database completion and the set of the construction of the set of bunding and storage guidelines

15 Are channels/transfer systems to remote containment systems tested? 16 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 1 underground structures and pipelines on site which failed the integrity test 2 Please provide integrity testing frequency period

No	
SELECT	

Table B2: S	ummary details of pipelir	ne/underground structures integr	ity test								
Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

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

Groundwater/Soil monitoring	template
-----------------------------	----------

Year

2013

		Comments
<ul> <li>Are you required to carry out groundwater monitoring as part of your licence requirements?</li> <li>Are you required to carry out soil monitoring as part of your licence requirements?</li> </ul>	yes 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	
<ul> <li>5 Is the contamination related to operations at the facility (either current and/or historic)</li> <li>6 Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site</li> <li>7 Please specify the proposed time frame for the remediation strategy</li> <li>8 Is there a licence condition to carry out/update ELRA for the site?</li> <li>9 Has any type of risk assessment been carried out for the site?</li> <li>10 Has a Concentual Site Model been developed for the site?</li> </ul>	yes yes N/A yes yes	historic Installation of cut-off wall around Continuous
11 Have potential receptors been identified on and off site?	ves	
<sup>12</sup> Is there evidence that contamination is migrating offsite?	yes	A possibility at low levels

### Table 1: Upgradient Groundwater monitoring results

Date of	Sample location	Parameter/	Mathematica		Maximum	Average		071/1-1	101/	% change in average concentration	Upward trend in pollutant concentration over last 5 years of monitoring
sampling	reference	Substance	Methodology	Monitoring frequency	Concentration++	Concentration+	unit	GIVS	IGV	previous year +/-	data
	MW1A	рН	accredited laboratory	quareterly	7.1	6.95	ph units		>6.5 <9.5		SELECT
		Conductivity	accredited			607.75	i				
	MW1A	@20C uS/cm	laboratory	quareterly	703		uS/cm		1000		
		Ammonia as NH3-	accredited			0.0795	i				
	MW1A	N mg/l	laboratory	quareterly	0.151		mg/l		0.15		
	MW1A	Total Phosphorus as P mɑ/l	accredited laboratory	quareterly	0.05	0.05	mg/l				
		Sodium, total	accredited			19					
	MW1A	mg/l	laboratory	quareterly	20		mg/l		150		
	MW1A	Chloride mg/l	accredited laboratory	quareterly	332	103.225	mg/l		30		
		Dissolved	accredited			39.15					
	MW1A	Oxygen (%)	laboratory	quareterly	52.2		%		No significant cl	hange	
		Potassium, total	accredited			5.75					
	MW1A	mg/l	laboratory	quareterly	15		mg/l		5		
		Orthophosphate	accredited			0.01					
	MW1A	as PO4-P mg/l	laboratory	quareterly	0.01		mg/l		0.03		
		Dissolved	accredited			3.9225				•	
	MW1A	Oxygen (mg/l)	laboratory	quareterly	4.45		mg/l		No significant cl	hange	
		TON	accredited			0.01	-		-	-	
1	MW1A	ION as N mg/l	laboratory	quareterly	0.01		mg/l		No significant cl	hange	
		<b>T</b> 00	accredited			2.195	-		-	-	
1	MW1A	TOC mg/l	laboratory	quareterly	2.94		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

Groundw	vater/Soil m	onitoring templa	ate		Lic No:	W0021-02		Year		
	Sample									
Date of	location	Parameter/			Maximum	Average		OT) # *		
sampling	reference	Substance	Methodology	Monitoring frequency	Concentration	Concentration	unit	GTV's^	IG	
	MW24	рН	accredited laboratory	quareterly	6.8	6.675	ph units		>6.5 <9.	
		Conductivity	accredited		3280	2415				
	MW24	@20C uS/cm	laboratory	quareterly			uS/cm			
		Ammonia as NH3-	accredited		125	96.1				
	MW24	N mg/l	laboratory	quareterly			mg/l			
		Total Phosphorus as P	accredited		0.35	0.2575				
	MW24	ma/l	laboratory	quareterly			mg/l			
		Sodium, total	accredited		294	273.75				
	MW24	mg/l	laboratory	quareterly			mg/l			
	MW24	Chloride mg/l	accredited laboratory	quareterly	511	457.75	ma/l			
		Dissolved	accredited	<u>, , , , , , , , , , , , , , , , , , , </u>	22	14.825				
	MW24	Oxygen (%)	laboratory	quareterly			%		No siani	
		Potassium, total	accredited		53	47.5				
	MW24	mg/l	laboratory	quareterly			mg/l			
	1	Orthophosphate	accredited		0.01	0.01	-			
	MW24	as PO4-P mg/l	laboratory	quareterly			mg/l			
		Dissolved	accredited		1.92	1.1975				
	MW24	Oxygen (mg/l)	laboratory	quareterly			mg/l		No signi	
			accredited		0.01	0.01				
	MW24	TON as N mg/I	laboratory	quareterly			mg/l		No sign	
		TOC mg/l	accredited	quarotorly	93.5	49.2	ma/l		n/a	
	1010024		iabulatul y	quareterry			iiiy/i		il/d	

\* please note exceedance of a relevant Groundwater threshold value (GTV) at a representative monitoring point does not indicate non compliance, an exceedance triggers further investigat 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)

Ground Surface regula GT water EQS

	Environmental Liabilities template	Lic No:	W0021-02		Year	2013
	Click here to access EPA guidance on Environmental Liabilities and Financial					
	provision				2013	
			<b>.</b> .			
			Commentary			
1	ELRA initial agreement status					
		Submitted and agreed by EPA				
2	ELRA review status	Review required and not completed;	Review date has not bee	n 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 I	PB insurance, awaiting response		
		·	Ŭ			
5	Financial Provision for ELRA - amount of cover	€8,970,000				
6	Einancial Provision for ELRA - type	surance with Environmental Impairme	nt Liability cover.		The final cap is now installed on the landf	ill with mai
0						
7	Financial provision for FLRA expiry date	Enter expiry date	Not applicable at this tin	ne		
8	Closure plan initial agreement status	losure plan submitted and agreed by El	PA			
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 fina	al cap installed		
12	Financial Provision for Closure - type	Other please specify	Paid			
13	Financial provision for Closure expiry date	Enter expiry date	N/A			

Environm	nental Management Programme/Continuous Improvement Programm	e template	Lic No:	W0021-02	Year	
	Highlighted cells contain dropdown menu click to view		Additional Information	1	-	
1 Do you m	naintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes				
2 Does the E	EMS reference the most significant environmental aspects and associated impacts on-site	Yes				
Does the EM 3	ANS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes				
Do you ma 4	aintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes	environmental records	s are stored in the public office for inspect	i	

### 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					

\_\_\_\_\_/3/14\_\_\_\_\_

\_

	N	loise monitor	ing summary	report			Lic No:	W0021-02	Year	2013	
Was noise mo	nitoring a licen	ce requirement f	for the AER perio	od?	2013			Yes	]		
Was noise mo "Checklist for	nitoring carried	d out using the EF	PA Guidance not luded in the quic	e including co lance note as	ompletion o table 6?	f the	<u>Noise</u> Guidance note NG4	Yes			
Does your site	have a noise r	eduction plan						No			
When was the	e noise reductio	n plan last updat	ted?								
Have there	been changes r	relevant to site n	oise emissions (e noise survey	e.g. plant or c ?	perational o	changes) sin	ce the last	Yes			
	The fi	nal cap is now in	stalled on the la	ndfill with ma	ain activity t	he operation	n of the CA si	te and removal of leac	hate.		
Table N1: Noi	se monitoring s	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 <u>site</u> compliant wit 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 dwe	58.6	<30	63.6	74	No	No	Traffic noise dominant	
1					1						

\*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.

Resource Usage/Energy efficiency summary	Lic No:	W0021-02	Year	2013	
		2013			

Additional information

1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 be

Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information

2 such as the SEAI programme linked to the right? If yes please list them in additional information <u>Network (</u> Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percent additional information

		Additional information
in table 3 below		
<u>SEAI - Large</u> Industry Energy		
Network (LIEN)	no	
tate percentage in		
	SELECT	N/A

Table R1 Energy usag	e on site			
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		
Total Renewable Energy Generated (	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

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

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

esource Usage/Energy efficiency sum	nmary			Lic No:	W0021-02	
Table R4: Energy Au	dit finding recommend	ations				
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility
			SELECT			
			SELECT			
			SELECT			
Technology						
Technology						
Primary Fuel						
Thermal Efficiency						
Unit Date of Commission						
Total Starts for year						
Total Running Time						
Total Electricity Congrated (CM/H)						
Total Lieuthury Generated (GWH)						
House Load (GWH)						
House Load (GWH) KWH per Litre of Process Water						

Complaints and Incidents summary template	Lic No:	W0021-02	Year	2013		
Complaints						
		Additional inforr	mation			
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					

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

Table 1 Complaints summary							
			Brief description of				
			complaint (Free txt <20	Corrective action< 20			Further
Date	Category	Other type (please specify)	words)	words	Resolution status	Resolution date	information
29/07/2013	Waste	skips full	Customer thought skips o	Skips were emptied more	Complete	30/07/2013	
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
Total complaints							
open at start of							
reporting year	0						
Total new							
complaints							
received during							
reporting year	1						
Total complaints							
closed during							
reporting year	1						
Balance of							
complaints end of							
reporting year	0						

	Incidents		
			Additional information
Have any incidents occurred on site in the current repor	ting year? Please list all incidents for	r current reporting	
year in Tabl	Yes		

What is an incident

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

Table 2 Incidents summary		]												
			Incident			Other	Activity in				Preventative			
			category*please refer to			cause(please	progress at			Corrective action<20	action <20		Resolution	Liklihood of
Date of occurrence	Incident nature	Location of occurrence	guidance	Receptor	Cause of incident	specify)	time of incident	Communication	Occurrence	words	words	Resolution status	date	reoccurence
18/12/2013	Flare shutdown	Licenced discharge point (ty	1. Minor	No Uncontrolled release	Not related to site	e activities	Normal activities	EPA	New	Power outage due to :	storm	Complete	19/12/2013	SELECT
														SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
Total number of														
incidents current														
year	1	1												
Total number of														
incidents previous														
year	2	2												
% reduction/														
increase	50	)												

WASTE SUMMARY	Lic No:	W0021-02	Year	2013
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLE	TED BY ALL IPPC AND WASTE FACILITIES	PRTR facility logon	dropdown list click to see options	

SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES	]		
		Additional Information	n
Were any wastes <u>accepted onto</u> your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ?; (waste generated within your 1 boundaries is to be captured through PRTR reporting) If yes please enter details in table 1 below	Yes		
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	No		

### 3

# Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information Table 1 Details of waste accepted onto your site for recovery, disposal or treatment (do not include wastes generated at your site, as these will have been reported in your PRTR workbook)

	•			•	-			-	2		
Licenced annual	EWC code	Source of waste accepted	Description of waste	Quantity of waste	Quantity of waste accepted in	Reduction/Incr	Reason for	Packaging Content (%)-	Disposal/Recovery or	Quantity of	Comments -
tonnage limit for your			accepted	accepted in current	previous reporting year (tonnes)	ease over	reduction/increase	only applies if the	treatment operation carried	waste	
site (total			Please enter an	reporting year (tonnes)		previous year	from previous	waste has a packaging	out at your site and the	remaining on	
tonnes/annum)			accurate and detailed			+/ - %	reporting year	component	description of this operation	site at the end	
			description - which							of reporting	
	European Waste Catalogue EWC		European Waste							year (tonnes)	
	codes		Catalogue EWC codes								
		20- MUNICIPAL WASTES									
		(HOUSEHOLD WASTE AND									
		SIMILAR COMMERCIAL,									
		INDUSTRIAL AND									
		INSTITUTIONAL WASTES)					Landfill reached				
		INCLUDING SEPARATELY					capacity and closed				
40000	200301	COLLECTED FRACTIONS		0	11243.3	100%	on 20th April 2012		R13-Storage of waste pending a	0	

### 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?

### ECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and tonnage-landfill only

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments
				Landfill closed 20/4/12
			0	

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	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
				Operated		landfilling	aspestos	for aspestos:	year				inter



SELECT	
SELECT	
SELECT	

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			Was SW monitored in		
Landfill Directive (LD)	Was leachate monitored in	Was Landfill Gas monitored in	compliance with LD		
standard in reporting	compliance with LD standard in	compliance with LD standard	standard in reporting	Have GW trigger levels	Were emission limit values agre
year +	reporting year	in reporting year	year	been established	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 waste that should be permanently	
SELECT UNIT	SELECT UNIT	Area with final cap to LD Standard m2 ha, a	Area capped other	capped to date under licence	What materials are used in t
0	0	39000 m2	approx 42,000	39000	1mm ldpe liner and 1m/.5m sc

\*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 s

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-si
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 retu

# Table 7 Landfill Gas-Landfill only

	Wag gunfage emigricus	



### Guidance to completing the PRTR workbook

# **AER Returns Workbook**

REFERENCE YEAR 2013

1. FACILITY IDENTIFICATION						
Parent Company Name	Mayo County Council					
Facility Name	Derrinumera 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
3.13	concerned is produced.
	Specially engineered landfill, including placement into lined discrete
	cells which are capped and isolated from one another and the
3.5	environment.
	Biological treatment not referred to elsewhere in this Schedule
	which results in final compounds or mixtures which are disposed of
3.6	Schedule
3.7	
5.7	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
4.13	produced.
	Recycling or reclamation of organic substances which are not used
	as solvents (including composting and other biological
4.2	transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Derrinumera/Drumilra (Townlands)
Address 2	Newport
Address 3	County Mayo
Address 4	
	Mayo
Country	Ireland
Coordinates of Location	-7.4634 53.8497
River Basin District	
NACE Code	3821 Teacter and all an and a financial and a second
Main Economic Activity	I reatment and disposal of non-nazardous waste
AER Returns Contact Name	Killian Farrell
AER Returns Contact Email Address	ktarrell@mayococo.ie
AER Returns Contact Position	Deputy Landfill manager
AER Returns Contact Telephone Number	098 41632
AER Returns Contact Mobile Phone Number	087 9155475
AER Returns Contact Fax Number	098 41676
Production Volume	0.0
Production Volume Units	
Number of Installations	1
Number of Operating Hours in Year	0
Number of Employees	5
User Feedback/Comments	Error above Licence number is W0021-02.
Web Address	

### 2. PRTR CLASS ACTIVITIES

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

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

2	Is it applicable?
2	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
2	used ?

### 4. WASTE IMPORTED/ACCEPTED ONTO SITE

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) ?	

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

### 4.1 RELEASES TO AIR Link to previous years emissions data

### SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR Plea				Please enter all quantities in this section in KGs				
POLLUTANT			N	IETHOD		QUANTITY		
				Method Used				
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)	С	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

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

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

#### SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO AIR				Please enter all quantities	in this section in KGs			
POLLUTANT		METHOD		QUANTITY				
			Met	hod Used				
								1
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

\* 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)

RELEASES TO AIR			Please enter all quantities in this section in KGs					
POLLUTANT		METHOD		QUANTITY				
			N	lethod Used				
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	0.000	) 00

\* 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:	Derrinumera Landfill Facility									
Please enter summary data on the quantities of methane flared and / or										
utilised			Meth	nod Used						
	T (Tatal) ka Nama	11/0/5	Martha d Oa da	Designation or	Facility Total Capacity					
Total actimated mathana apparation (as par	l (lotal) kg/Year	M/C/E	Method Code	Description	m3 per hour					
site model)	878417.26	М	CRM	GASSIM	N/A					
Methane flared	862115.0	С	ОТН	Bernard Hyde Spreadsheet	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	С	ОТН	Calculated from flare	N/A					

31/03/2014 10:53

#### 5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE |PRTR#: W0021 | Facility Name : Deminumera Landill Facility | Filename : AER w0021\_02\_2013.xls | Return Year : 2013 | Please enter all quantities on this sheet in Tonnes

~ 4	100	000		0.00
31		/201	4 1	

			Please enter	all quantities on this sheet in Tonnes								28
			Quantity (Tonnes per Year)		Weste		Method Used		Haz Waste         Name and           Licence/Permit No of Next         Destination Facility         Non.           Haz Waste         Name and         Licence/Permit No of           Licence/Permit No of         Recover/Disposer	<u>Haz Waste</u> : Address of Next Destination Facility <u>Non Haz Waste</u> : 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)
Transfer Destinatio	European Waste n Code	Hazardous		Description of Waste	Treatment Operation	M/C/E	Method Used	Location of Treatment				
Within the Country	02 01 04	No	46.5	5 Farm Plastic	R3	М	Weighed	Offsite in Ireland	IFFPG,Exempt	Waverly Road,.,Dublin,10,Ireland		
Within the Country	15 01 02	No	19.7	/ plastic packaging	R3	М	Weighed	Offsite in Ireland	Barna Waste, W0106-02	Road ,.,Galway,.,Ireland		
Within the Country	15 01 02	No	25.08	8 plastic packaging	R3	Μ	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Road ,.,Galway,.,Ireland Carrowbrowne Headford		
Within the Country	16 01 03	No	12.52	end-of-life tyres	R5	Μ	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Road ,.,Galway,.,Ireland	ENVA,W0184-	
Within the Country	16 01 07	Yes	0.6	o oil filters	R9	М	Weighed	Offsite in Ireland	RILTA,W0192-02	Grants Drive,402 Greenogue Business Park rathcoole,Dublin,.,Ireland	01,Clonminam Industrial estate,.,Portlaoise Co. Laois,.,Ireland	Ireland
				accos in processo containers (including					Faarafa	Unit 1A Allied Industrial	Recyfuel SA,BE	
To Other Countries	16 05 04	Yes	0.9	<ul> <li>halons) containing dangerous substances</li> <li>gypsum-based construction materials other</li> </ul>	R4	М	Weighed	Abroad	systems(SRCL),W0054-02	Road,Dublin ,10,Ireland	dHein,.,Engis,B4480,Belgium	.,.,,Belgium
Within the Country	17 08 02	No	18.04	than those mentioned in 17 08 01 landfill leachate other than those	R5	Μ	Weighed	Offsite in Ireland	Barna Waste,W0106-02 Rathroeen landfill	Road ,.,Galway,.,Ireland Killala RoadBallina		
Within the Country	19 07 03	No	24408.44	mentioned in 19 07 02	D9	Μ	Weighed	Offsite in Ireland	site,W0067-02	Co.Mayo,.,Ireland		
Within the Country	20 01 01	No	177.94	paper and cardboard	R3	М	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	М	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	Μ	Weighed	Offsite in Ireland	Rehab Recycling,03//02	Ballymount,.,Dublin,.,Ireland Carrowbrowne Headford		
Within the Country	20 01 02	No	7.6	glass	R5	Μ	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Road ,.,Galway,.,Ireland		
Within the Country	20 01 10	No	16.44	l dothes	R3	М	Weighed	Offsite in Ireland	Textile Recycling Ltd,WPR - 014	.,Unit 504A Greenogue Business Park Rathcoole,Dublin,24,Ireland	VN //	
Within the Country	20 01 21	Yes	1.032	fluorescent tubes and other mercury- 2 containing waste	R4	М	Weighed	Offsite in Ireland	KMK metal,W0113-02	Cappincur Industrial estate,Daingean Road,Tullamore Co. Offaly,Ireland	02,Cappincur Industrial estate Daingean road,,Tullamore Co. Offaly,,Ireland	.,,,,,,Ireland
										Cappincur Industrial estate,Daingean	KMK metal,W0113- 02,Cappincur Industrial estate Daingean	
Within the Country	20 01 23	Yes	18.978	discarded equipment containing 8 chlorofluorocarbons	R4	М	Weighed	Offsite in Ireland	KMK metal,W0113-02	Offaly,.,Ireland	Offaly, Ireland	.,.,.,Ireland
Within the Country	20 01 25	No	0.82	edible oil and fat	R3	М	Weighed	Offsite in Ireland	Frylite,CW227	Kilcolgan,.,Galway,.,Ireland	FNVA W0184-	
Within the Country	20 01 26	Yes	5.56	oil and fat other than those mentioned in 20 01 25	R9	М	Weighed	Offsite in Ireland	RILTA,W0192-02	Grants Drive,402 Greenogue Business Park rathcoole,Dublin,.,Ireland	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	м	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	Μ	Weighed	Offsite in Ireland	KMI
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	KM
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	KMI
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	Μ	Weighed	Offsite in Ireland	KM
Within the Country	20 01 36	Νο	24.04	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	Μ	Weighed	Offsite in Ireland	KMI
Within the Country	20 01 39	No	0.32	plastics	R3	Μ	Weighed	Offsite in Ireland	Barı
Within the Country	20 01 39	No	39.01	plastics	R3	M	Weighed	Offsite in Ireland	Bari Galv
Within the Country	20 01 40	No	26.79	metals	R4	М	Weighed	Offsite in Ireland	000
Within the Country	20 01 40	No	6.45	metals	R4	М	Weighed	Offsite in Ireland	Barı Galv
Within the Country	20 01 40	No	108.47	metals	R4	М	Weighed	Offsite in Ireland	000
Within the Country	20.01.00	No	1 00	other tractions not otherwise specified	02	N/I	Maighod	()tteito in Iroland	Dor



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



### Please note that the closing date for reciept 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 uptodate information on methane flaring and recovery in utilisation plants at landfills 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

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

					ļ		to be filled in by li	censee					
Elaro No. 1													
Flare No. 1	Flare type	2				Organica SC2E0			If "other"	enter flare de	scription here		
	Thate type					Organics Sc250					semption nero		
	Is the flare	an open or er	iclosed flare	?		Enclosed	▼	Rated flare ca	apacity ?	250	-	m3/hr	
	Month /yea	ar comissione	d ?			July	▼ 2001	-					
	Month dec	omissioned if	decomissic	ned in 2013	?	Select	-						
	What is the	e function of t	he flare ?			Extraction from	capped and uncapped a	reas 🔻	If "other" ent	er flare functi	on here		
Monthly	Method	Runtime	Runtime	Downtime	Total runtime	Average Inlet	Average Flow	Average CH <sub>4</sub>	Average CO <sub>2</sub>	Average O <sub>2</sub>	Combustion	Total CH <sub>4</sub>	Total CH <sub>4</sub>
	M/C/E	days/month	hrs/day	hrs	hrs/month	Pressure (mbg)	Rate (m <sup>3</sup> /hr)	%v/v	%v/v	%v/v	efficiency (%)	m <sup>3</sup>	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	<u>114,148</u>	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	e if data is no	t availabe or	cannot be calcula	ited nor estimated	on a monthly basi	IS					
Yearly	Method	Runtime	Runtime	Downtime	Total runtime	Average Inlet	Average Flow	Average CH <sub>4</sub>	Average CO <sub>2</sub>	Average O <sub>2</sub>	Combustion	Total CH <sub>4</sub>	Total CH <sub>4</sub>

Yearly	Method	Runtime	Runtime	Downtime	Total runtime	Average Inlet	Average Flow	Average CH <sub>4</sub>	Average CO <sub>2</sub>	Average O <sub>2</sub>	Combustion	Total CH₄	Total CH <sub>4</sub>
	M/C/E	days/year	hrs/day	hrs	hrs/year	Pressure (mbg)	Rate m <sup>3</sup> /hr	%v/v	%v/v	%v/v	efficiency (%)	m <sup>3</sup>	kgs
2013					0						98.0	0	0