Facility Information Sum	mary		
AER Reporting Year	2016		
Licence Register Number	W0021-02		
Name of site	Derri	numera Landfill Site	
Site Location	Ne	ewport, Co. Mayo	
NACE Code		A3	
Class/Classes of Activity	Clas	ss 5 & Class 2,3 &4.	
National Grid Reference (6E, 6 N)	2:	93525E,104250N	
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.			
	Landfill closed since	2012, operating as a Civic Ameni	ty site. No exceedences of licence limits. No non-

compliances in 2016.

Declaration:

All the data and information presented in this report has been checked and certified as being accurate. The

Group/Facility deputy manager

guality of the information is assured to meet licence requirements.

31/03/2017

Date

(or nominated, suitably qualified and experienced deputy)

	AIR-summary t	template				Lic No:	W0021-02		Year	2016		
	Answer all questio	ns and complete all table	s where relevant									
1	reporting year an		ons. If you do not h	ave licenced emis	nd A2 below for the current sions and do not complete a mplete the tables	No		Additional information	n			
	Periodio	/Non-Continuous M	lonitoring									
2	Are there any resu	lts in breach of licence rec	uirements? If yes plea TableA1 below		tails in the comment section of	No						
3		g carried out in accordanc d using the basic air monit	e with EPA guidance	Basic air monitoring checklist	AGN2	SELECT						
	Table A1: Licen	nsed Mass Emissions	/Ambient data-p	eriodic monito	ring (non-continuous)							
	Emission reference no:	Parameter/ Substance	Frequency of	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

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

SELECT

SELECT

SELECT SELECT

AIF	R-summary	template				Lic No:	W0021-02	Year	2016	
		Continuous M	/lonitoring							
4 Doe	es your site car	ry out continuous air emiss	sions monitoring?			SELECT				
If y	es please revie	•	oring data and report t relevant Emission Lim		pelow in Table A2 and compare				1	
5 Did	continuous mo	onitoring equipment experi	ience downtime? If ye	es please record dov	wntime in table A2 below	SELECT				
6 Do y	you have a pro	active service agreement fo	or each piece of conti	nuous monitoring e	equipment?	SELECT				
7	-	site experience any abatem			them in table A3 below	SELECT				
Tak	ble A2: Sum	mary of average emi	issions -continuo	us monitoring						
	ission erence no:	Parameter/ Substance		Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Equipment	Number of ELV exceedences in current	Comments
			ELV in licence or any revision therof					, ,	reporting year	

SELECT

SELECT

SELECT SELECT SELECT

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

SELECT

SELECT

SELECT

SELECT SELECT

Table A3: Abatement system bypass reporting table

Bypass	protocol
- 1	p

SELECT

Date*	Duration** (hours)	Location	Reason for bypass	Impact magnitude	Corrective action

^{*} this should include all dates that an abatement system bypass occurred

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

AIR-s	summary t	template				Lic No:	W0021-02		Year	2016
	Solvent	use and manageme	nt on site							
Do you	u have a tota	ıl Emission Limit Value of d	irect and fugitive emi	ssions on site? if ye	s please fill out tables A4 and A5			SELECT		
		ent Management Pla ssion limit value	in Summary	Solvent regulations	Please refer to linked solver complete table 5			<u> </u>		
Repo	eporting year Total solvent input on site (kg) Total VOC emissions to Air from entire site (direct and fugitive) Total Emission Limit V: (ELV) in licence or any therof					Compliance				
						SELECT				
<u> </u>						SELECT				
·	Table A5:	Solvent Mass Baland	ce summary							
		(I) Inputs (kg)			(0)	Outputs (kg)				
S	Solvent	(I) Inputs (kg)	Organic solvent emission in waste	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g.	Solvents destroyed onsite through	Total emission of Solvent to air (kg)	
								Total		

	AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)		Lic No:	W0021-02	Year	2016	
Ξ				Additional information	_		
	Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If you do not have licenced emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections	No					
	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	Yes					
	Table W1 Storm water monitoring						

Tubic	W1 Storm wat	Ci illollitoring								
Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
SW1	upstream	SELECT	BOD mg/l	average of all results		N/A	1	mg/L	SELECT	
SW1	upstream		Suspended Solids mg/l	average of all results		N/A	8.25	mg/L		
SW1	upstream		pH Units	average of all results		N/A	4.59	ph		Located in blanket peat, always shows low Ph.
SW1	upstream		Conductivity @20C uS/cm	average of all results		N/A	110.125	μS/cm @20oC		
SW1	upstream		Ammonia as NH3-N mg/l	average of all results		N/A	0.07	mg/L		
SW1	upstream		Total Phosphorus as P mg/l	average of all results		N/A	0.142	mg/L		
SW1	upstream		Dissolved Oxygen (%)	average of all results		N/A	74.43	%		
SW1	upstream		Orthophosphate as PO4-P mg/I	average of all results		N/A	0.018	mg/L		
SW1	upstream		Dissolved Oxygen (mg/l)	average of all results		N/A	7.21	mg/L		
SW2	downstream		BOD mg/l	average of all results		N/A	1	mg/L		
SW2	downstream		Suspended Solids mg/l	average of all results		N/A	3.67	mg/L		
SW2	downstream		pH Units	average of all results		N/A	6.83	ph		
SW2	downstream		Conductivity @20C uS/cm	average of all results		N/A	241.08	μS/cm @20oC		
SW2	downstream		Ammonia as NH3-N mg/l	average of all results		N/A	0.80	mg/L		
SW2	downstream		Total Phosphorus as P mg/l	average of all results		N/A	0.05	mg/L		
SW2	downstream		Dissolved Oxygen (%)	average of all results		N/A	72.58	%		
SW2	downstream		Orthophosphate as PO4-P mg/l	average of all results		N/A	0.02	mg/L		
SW2	downstream		Dissolved Oxygen (mg/l)	average of all results		N/A	7.09	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	 / · · · · · · · · - · · - · ·	/ · · · · · · · · · · · · · · ·	 /

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



Additional information

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)		Lic No:	W0021-02	Year	2016	
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	nent of					
4 require improvement in additional information box <u>External /Internal Lab Quality checklist</u> result	<u>checklist</u> Yes					

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

Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring		ELV or trigger values in licence or any revision therof ^{Note 2}	Licence Compliance criteria	Measured value		Compliant with licence		Procedural	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

	AER Monitor	ing returns su	mmary template-W	ATER/WASTEWATER(SEWER)			Lic No:	W0021-02		Year	2016	
							•		•	•		
Continuous monitoring								Additional Information		7		
5	Does your site ca	arry out continuou	is emissions to water/sewe	r monitoring?		No						
							•			-		
			inuous monitoring data be	elow in Table W4 and compare it to its re	elevant Emission							
	Limit Value (ELV)											
										1		
6	Did continuous n	nonitoring equipm	ent experience downtime?	If yes please record downtime in table	W4 below	SELECT						
						SELECT						
7	Do you have a pr	oactive service co	ntract for each piece of cor	ntinuous monitoring equipment on site?		SELECT						
						SEEECI				1		
8	Did abatement s	ystem bypass occu	ir during the reporting year	r? If yes please complete table W5 below	,	SELECT						
	Table W4: Su	mmary of ave	erage emissions -con	tinuous monitoring								
		,										
Γ												
									% change +/- from			
									previous reporting	Monitoring	Number of ELV	
	Emission	Emission		ELV or trigger values in licence or any	Averaging	Compliance	Units of	Annual Emission for current	year	Equipment	exceedences in	
L	reference no:	released to	Parameter/ Substance	revision thereof	Period	Criteria	measurement	reporting year (kg)		downtime (hours)	reporting year	Comments
		SELECT	SELECT		SELECT	SELECT	SELECT					
ſ		SELECT	SFLECT		SELECT	SELECT	SELECT			1		

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	Corrective	Was a report	When was this report submitted?
				bypass	action*	submitted to the	
						EPA?	
						SELECT	
			·				

^{*}Measures taken or proposed to reduce or limit bypass frequency

Bund/Pipeline testing te	emplate				Lic No:	W0021-02		Year	2016	5				1
Bund testing		dropdown menu c	allalata ana antilana				Additional information					*		•
	e to undertake integrity tes	sting on bunds and containment s		table R1 below listing all per	w hunds and containment		Additional information	\neg						
		e integrity test- all bunding struct												
		obile bunds and chemstore include				Yes								
Please provide integrity testing f	frequency period					3 years								
	er of bunds, underground p	ipelines (including stormwater an	d foul), Tanks, sumps and cont	ainers? (containers refers to	"Chemstore" type units									
and mobile bunds)						No	6	_						
How many bunds are on site? How many of these bunds have	been tested within the rea	uired test schedule?					4	+						
6 How many mobile bunds are on	n site?						2							
7 Are the mobile bunds included in 8 How many of these mobile bund						No	Will be tested in 2017.	_						
How many or these mobile bund How many sumps on site are inc								+						
How many of these sumps are in	integrity tested within the to						0							
Please list any sump integrity f						Ver		_						
 Do all sumps and chambers have If yes to Q11 are these failsafe s 						Yes No		-						
Is the Fire Water Retention Pond						N/A								
				٦			<u></u>							
Table E	B1: Summary details of bur	nd /containment structure integri	ity test											
														Results of
									Integrity reports					retest(if in
									maintained on		Integrity test failure		Scheduled date	current
Bund/Containment structure ID Tank 1	Type reinforced concrete	Specify Other type	Product containment leachate	Actual capacity 450m3	Capacity required*	Type of integrity test Hydraulic test	Other test type	Test date Aug-13	site? Yes	Results of test Pass	explanation <50 words	Corrective action taken	for retest Due 2017	reporting ye
Tank 2	reinforced concrete		leachate	450m3		Hydraulic test		Aug-13	Yes	Pass			Due 2017	
Tank 3	reinforced concrete		leachate	450m3		Hydraulic test		Aug-13	Yes	Pass			Due 2017	
Chemstore	prefabricated	metal	household haz material											
Recirculation tank cell 1 Recirculation tank cell 2	prefabricated prefabricated	plastic	leachate leachate	2.5m3 2.5m3		Other (please specify) SELECT	manufacterers manufacterers		Yes No	SELECT		SELECT	Due 2017 Due 2017	
Recirculation tank cell 2	SELECT	piastic	leachate	2.3113		SELECT	manufacterers		SELECT	SELECT		SELECT	Due 2017	
* Capacity required should comply with 25%	% or 110% containment rule as detail	lled in your licence					Commentary							
BS8007/EPA Guidance?	ed out in accordance with li	icence requirements and are all st	ructures tested in line with	bunding and storage guideli	nes	Yes								
6 Are channels/transfer systems to	to remote containment syst	items tested?		barrang ara storage galacii	1100	No								
Are channels/transfer systems of	compliant in both integrity	and available volume?				N/A								
Pipeline/underground	d structure testing													
		-												
Are you required by your licence 1 structures and pipelines on site		sting* on underground structures			low listing all underground	No								
2 Please provide integrity testing f		test and an winch have not been	r tested withing the integrity	test period as specified		SELECT		+						
		ng for process and foul pipelines (a	as required under your licence	1										
Table R2	2. Summany datails of ninal	line/underground structures integ	rity toct	٦										
Table bz	2. Summary details or piper	ille/underground structures integ	inty test									1		
				Type of secondary										
				containment				Integrity test						
			Does this structure have			Integrity reports			Corrective action	Scheduled date	Results of retest(if in current			
Structure ID	Type system	Material of construction:	Secondary containment?		Type integrity testing	maintained on site?	Results of test	<50 words	taken	for retest	reporting year)			
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT	-		
										+		1		
												Í		
												=		
							٦							
		Please use com	nmentary for additional details	not answered by tables/ que	estions above		7							
		Please use com	nmentary for additional details	not answered by tables/ que	estions above									

Groundwater/Soil monitoring template Lic No: W0021-02 Year 2016

Comments

		Comments	
Are you required to carry out groundwater monitoring as part of your licence			Discount idea in the second of
requirements?	yes		Please provide an interpretation of groundwater monitoring data in the
2 Are you required to carry out soil monitoring as part of your licence requirements?	no		interpretation box below or if you require additional space please
Do you extract groundwater for use on site? If yes please specify use in comment			include a groundwater/contaminated land monitoring results
³ section	no		interpretaion as an additional section in this AER
Do monitoring results show that groundwater generic			
assessment criteria such as GTVs or IGVs are exceeded or is			
4 there an upward trend in results for a substance? If yes, please			
complete the Groundwater Monitoring Guideline Template Groundwater			
Report (link in cell G8) and submit separately through ALDER as monitoring			
a licensee return AND answer questions 5-12 below. template	SELECT	GW report completed.	
·	522201		
5 Is the contamination related to operations at the facility (either current and/or			
historic)	yes		
6 Have actions been taken to address contamination issues?If yes please summarise		Cut-off wall installed and	
remediation strategies proposed/undertaken for the site	yes	wellpoint GW	
7		works complete,	
Please specify the proposed time frame for the remediation strategy	N/A	operations on-going	
0			
8 Is there a licence condition to carry out/update ELRA for the site?	yes	Contained in GW report	
Has any type of risk assesment been carried out for the site?	yes	Contained in GW report	There is a plume of contaminated GW in the downgradient area of the
		· ·	site. This has been investigated on a number of occassions, including by
Has a Conceptual Site Model been developed for the site?	yes	Contained in GW report	geophysical survey, and relates to waste landfilled prior to licencing.
	,		There has been a cut-off wall installed which effects the shallow wells.
Have potential receptors been identified on and off site?	ves	Contained in GW report	The plume is reducing both in size and concentration over time and will
nave potential receptors seen rachanea on and on site:	yes	Contained in GW report	continue to be monitored as part of the aftercare associated with the
12 Is there evidence that contamination is migrating offsite?	VOC	Contained in GW report	·
is there evidence that contamination is migrating onsite:	yes	Contained in GW Teport	site. The groundwater assessment was submitted in 2016.

Table 1: Upgradient Groundwater monitoring results

Table 1.	Opgradient	diodilawat		g results					
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	Upward trend in pollutant concentration over last 5 years of monitoring data
2016	MW1A	рН	accredited lab	quarterly	7.2	6.95	ph		No
2016	MW1A	Conductivity @20C uS/cm	accredited lab	quarterly	820	680.5	us/cm		No
2016	MW1A	Ammonia as NH3-No mg/l	accredited lab	quarterly	0.647	0.218	mg/l		No
2016	MW1A	Total Phosphorus as P mg/l	accredited lab	quarterly	0.06	0.0525	mg/l		No
2016	MW1A	Sodium, total mg/l	accredited lab	quarterly	23	19.55	mg/l		No
2016	MW1A	Chloride mg/l	accredited lab	quarterly	39.5	29.525	mg/l		No

Gr	oundv	water/Soil m		emplate		Lic No:	W0021-02		Year	2016		
:	2016	MW1A	Dissolved Oxygen (%)	accredited lab	quarterly	68.3	26.855	%			No	
	2016	MW1A	Potassium, total mg/l	accredited lab	quarterly	2	1.9825	mg/l			No	
:	2016	MW1A	Orthophosph ate as PO4- P mg/l	accredited lab	quarterly	0.01	0.01	mg/l			No	
	2016	MW1A	Dissolved Oxygen (mg/l)	accredited lab	quarterly	60.2	25.4475	mg/l			No	
	2016	MW1A	TON as No	accredited lab	quarterly	0.1	0.07725	mg/l			No	
- :	2016	MW1A	TOC mg/l	accredited lab	quarterly	3.44	2.4475	mg/l			No	
:	2016	MW1A	Copper, total ug/l	accredited lab	Annual	1	1	ug/l			No	
2	2016	MW1A	Residue on Evaporation mg/l	accredited lab	Annual	482	482	mg/l			No	
_ :	2016	MW1A	Magnesium, total mg/l	accredited lab	Annual	18	18	mg/l			No	
_ :	2016	MW1A	Sulphate mg/l	accredited lab	Annual	21.4	21.4	mg/l			No	
_ :	2016	MW1A	Fluoride mg/l	accredited lab	Annual	0.1	0.1	mg/l			No	
	2016	MW1A	Iron, total ug/l	accredited lab	Annual	671	671	ug/l			No	
	2016	MW1A	Manganese, total ug/l	accredited lab	Annual	391	391	ug/l			No	
_ :	2016	MW1A	Zinc, total ug/l	accredited lab	Annual	5	5	ug/l			No	
_ :	2016	MW1A	Chromium, total ug/l	accredited lab	Annual	0.5	0.5	ug/l			No	
	2016	MW1A	Calcium, total mg/l	accredited lab	Annual	105	105	mg/l			No	
:	2016	MW1A	Boron ug/l	accredited lab	Annual	14	14	ug/l			No	
	2016	MW1A	Nickel, total ug/l	accredited lab	Annual	0.6	0.6	ug/l			No	
	2016	MW1A	Lead, total ug/l	accredited lab	Annual	0.5	0.5	ug/l			No	
	2016	MW1A	Cadmium, total ug/l	accredited lab	Annual	0.5	0.5	ug/l			No	
_ :	2016	MW1A	Cyanide (Total) mg/l	accredited lab	Annual	0.009	0.009	mg/l			No	
:	2016	MW1A	Total Coliforms (Filtration) cfu/100ml	accredited lab	Annual	1	1	cfu/100ml			No	
	2016	MW1A	Faecal Coliforms Filtration cfu/100ml	accredited lab	Annual	1	1	cfu/100ml			No	
:	2016	MW1A	Mercury, total (in water) ug/l	accredited lab	Annual	0.1	0.1	ug/l			No	
:	2016	MW1A	Alkalinity Total mg/l CacO3	accredited lab	Annual	362	362	mg/l			No	
					1			SELECT			SELECT	l

^{.+} where average indicates arithmetic mean

Groundwater/Soil monitoring template

Lic No: W0021-02

Year

2016

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

Table 2: Downgradient Groundwater monitoring results

Table 2:	Downgradie	nt Groundy	vater monito	ring results						
Date of sampling 2016	Sample location reference MW24	Parameter/ Substance	Methodology accredited lab	Monitoring frequency quarterly	Maximum Concentration 6.6	Average Concentration 6.55	unit ph	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
		Conductivity					,			
2016	MW24	@20C uS/cm	accredited lab	quarterly	3400	3110	us/cm			No
2016	MW24	Ammonia as NH3-No mg/l	accredited lab	quarterly	197	128.6666667	mg/l			No
2016	MW24	Total Phosphorus as P mg/l	accredited lab	quarterly	0.4	0.3575	mg/l			No
2016	MW24	Sodium, total mg/l	accredited lab	quarterly	302	240.25	mg/l			No
2016	MW24	Chloride mg/l	accredited lab	quarterly	461	389	mg/l			No
2016	MW24	Dissolved Oxygen (%)	accredited lab	quarterly	30.1	14.8125	%			No
2016	MW24	Potassium, total mg/l	accredited lab	quarterly	49	44.875	mg/l			No
2016	MW24	Orthophosph ate as PO4- P mg/l	accredited lab	quarterly	0.061	0.023	mg/l			No
2016	MW24	Dissolved Oxygen (mg/l)	accredited lab	quarterly	28.1	14.06	mg/l			No
2016	MW24	TON as No mg/l	accredited lab	quarterly	2.49	0.67575	mg/l			No
2016	MW24	TOC mg/l	accredited lab	quarterly	82.1	56.605	mg/l			No
2016	MW24	Copper, total ug/l	accredited lab	Annual	1	1	ug/l			No
2016	MW24	Residue on Evaporation mg/l	accredited lab	Annual	2060	2060	mg/l			No
2016	MW24	Magnesium, total mg/l	accredited lab	Annual	29	29	mg/l			No
2016	MW24	Sulphate mg/l	accredited lab	Annual	5	5	mg/l			No
2016	MW24	Fluoride mg/l	accredited lab	Annual	0.1	0.1	mg/l			No
2016	MW24	Iron, total ug/l	accredited lab	Annual	48776	48776	ug/l			No
2016	MW24	Manganese, total ug/l	accredited lab	Annual	5073	5073	ug/l			No
2016	MW24	Zinc, total ug/l	accredited lab	Annual	5	5	ug/l			No
2016	MW24	Chromium, total ug/l	accredited lab	Annual	9	9	ug/l			No
2016	MW24	Calcium, total mg/l	accredited lab	Annual	252	252	mg/l			No
2016	MW24	Boron ug/l	accredited lab	Annual	459	459	ug/l			No

Ground	water/Soil m	onitoring to	emplate		Lic No:	W0021-02		Year	2016		
2016	MW24	Nickel, total ug/l	accredited lab	Annual	11	11	ug/l			No	
2016	MW24	Lead, total ug/l	accredited lab	Annual	0.5	0.5	ug/l			No]
2016	MW24	Cadmium, total ug/l	accredited lab	Annual	0.5	0.5	ug/l			No	
2016	MW24	Cyanide (Total) mg/l	accredited lab	Annual	0.009	0.009	mg/l			No	
2016	MW24	Total Coliforms (Filtration) cfu/100ml	accredited lab	Annual	8	8	cfu/100ml			No	
2016	MW24	Faecal Coliforms Filtration cfu/100ml	accredited lab	Annual	4	4	cfu/100ml			No	
2016	MW24	Mercury, total (in water) ug/l	accredited lab	Annual	0.1	0.1	ug/l			No	
2016	MW24	Alkalinity Total mg/l CacO3	accredited lab	Annual	1210	1210	mg/l			No	
l							SELECT			SELECT	

please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA.

<u>Groundwater monitoring template</u>

More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31)

<u>Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013).</u>

(see the mix in 651)

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

	Groundwater	Drinking water		
Surface	regulations	(private supply)	Drinking water (public	Interim Guideline
water EQS	GTV's	<u>standards</u>	supply) standards	Values (IGV)

Groundwater/30ii monitoring tempiate Lic No: W0021-02 Year 2016		Groundwater/Soil monitoring template	Lic No:	W0021-02	Year 2016	
---	--	--------------------------------------	---------	----------	-----------	--

Table 3: Soil results

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

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

Environmental Liabilities template Lic No:	W0021-02	Year	2016
--	----------	------	------

Click here to access EPA guidance on Environmental Liabilities and Financial provision

			Commentary
1	ELRA initial agreement status		
-	ELIVITING OF CENTERS STATES		
		Submitted and agreed by EPA	
2	ELRA review status	Review completed	
3	Amount of Financial Provision cover required as determined by the latest ELRA	€2,747,250	
	Europi Portion Continue de la	C harman and a standard and a standa	
4	Financial Provision for ELRA status	Submitted and not agreed by EPA;	
5	Financial Provision for ELRA - amount of cover	€2,747,250	IPB providing quote for this amount
6	Financial Provision for ELRA - type	Environmental Impairment Liability insurance	
7	Financial provision for ELRA expiry date	Enter expiry date	not agreed yet
8	Closure plan initial agreement status	Closure plan submitted and agreed by EPA	
9	Closure plan review status	Review required and completed	
10	Financial Provision for Closure status	Submitted and not agreed by EPA;	
11	Financial Provision for Closure - amount of cover	Specify	Closure requirements paid out of general revenue budget. All capital works are complete.
12	Financial Provision for Closure - type	Other please specify	Letter of provision
13	Financial provision for Closure expiry date	Enter expiry date	Dirty closure so No date in placefor final closure

	Environmental Management Programme/Continuous Improvement Programme	template	Lic No:	W0021-02	Year	2016
	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				
	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance					
3	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	Available in	public office		

Environmental Management Programme (EMP) report									
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes				
					Improved Environmental				
Energy Efficiency/Utility conservation	Continue to maintain both g	100	general maintenance work car	Individual	Management Practices				
					Increased compliance with				
Groundwater protection	Comply with licence by comp	100	Contract in place with consulta	Individual	licence conditions				
SELECT		SELECT		SELECT	SELECT				

Noise monitoring summary report	Lic No:	W0021-02	Year	2016
/as noise monitoring a licence requirement for the AER period?		Yes]	
yes please fill in table N1 noise summary below	Noise		1	
/as noise monitoring carried out using the EPA Guidance note, including completion of the	<u>Noise</u> <u>Guidance</u>	Yes		
Checklist for noise measurement report" included in the guidance note as table 6?	note NG4			
oes your site have a noise reduction plan		No		
/hen was the noise reduction plan last updated?		n/a	_	
lave there been changes relevant to site noise emissions (e.g. plant or operational changes) survey?	since the last noise	No		
able N1: Noise monitoring summary				
Noise sensitive ate of Noise location location -NSL		Tonal or Impulsive	If tonal /impulsive noise was identified was 5dB penalty	Comments (ex. main noise sources on site, & extraneous noise ex.

LA_{max}

75

75

92.8

70.4

noise* (Y/N)

No

No

No

No

SELECT

applied?

*Please ensure tha	t a tonal analysis has b	een carried out as per	guidance note NG4. Th	ese records must b	e maintained or	nsite for future in	spection

(if applicable)

N6

N1

(on site)

N2

N5

Time period

monitoring

15/10/2015 30 mins

15/10/2015 30 mins

15/10/2015 30 mins

15/10/2015 30 mins

If noise limits exceeded as a result of noise attributed to site activities, please choose the corrective action from the following options?

LA₁₀

67.4

72.4

45.8

45.8

 LA_{90}

35.8

36.4

33.6

32.4

 LA_{eq}

61.9

43.7

34.9

71

SELECT

road traffic/dog barking

truck horn, site traffic

small stream/birds

SELECT

Yes

Yes

road traffic)

road traffic

** please explain the reason for not taking action/resolution of noise issues?	
2015 data used as No changes to operational practice/machinery occurred. No noise complaints received.	

Resource Usage/Energy efficiency summary Lic No: W0021-02 Year 2016

Men did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below

SEAI - Large.
Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI Industry Energy.
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

SELECT

Table R1 Energy usage on sit	e			
Energy Use	Previous year	Current year	compared to previous reporting	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	160.996	168.58		
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)	785	149.16		
Electricity Consumption (MWHrs)				
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	0	0		
Light Fuel Oil (m3)	0.79	0.7		
Natural gas (m3)	0	0		
Coal/Solid fuel (metric tonnes)	0	0		
Peat (metric tonnes)	0	0		
Renewable Biomass	0	0		
Renewable energy generated on site	785MWhrs	149.16		

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

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

Table R2 Water usage on sit				Water Emissions			
			,	Energy Consumption +/- %		Volume used i.e not discharged to environment e.g.	
	Water extracted	Water extracted	previous reporting	vs overall site	back to	released as steam	
Water use	Previous year m3/yr.	Current year m3/yr.	year**	production*	environment(m³yr):	m3/yr	Unaccounted for Water:
Groundwater	0	0					
Surface water	0	0					
Public supply	150	150					
Recycled water	0	0					
Total	0	0					

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

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

Table R3 Waste Stream Summary					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)		0	0		
Non-Hazardous (Tonnes)		0	0		

Resource Usage/Energy efficiency summary 2016 Lic No: W0021-02 Year Table R4: Energy Audit finding recommendations Predicted energy Description of Status and Measures proposed Origin of measures savings % Date of audit Recommendations Implementation date Responsibility Completion date comments SELECT SELECT SELECT

<u> </u>	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					

Resolution

Resolution status

SELECT

SELECT

SELECT

SELECT

Likelihood of

reoccurence

SELECT

SELECT SELECT

SELECT SELECT

Complaints and Incidents summary template		Lic No:	W0021-02	Year	2016	
Complaints						
		Additional informa	ation			
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					

Table	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
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
Total complaints open at start of reporting year Total new complaints received during reporting year Total complaints	0						
closed during reporting year	0						
Balance of complaints end of reporting year	0						

	Incidents				
				Additional information	
Have any incidents occurred on site in the current repor	ents for current reporting				
year in Tab	le 2 below	_	No		
*For information on how to report and what					
constitutes an incident	What is an incident				

increase

Table 2 Incidents sun	nmary											
						Other	Activity in				Preventative	ī
			Incident category*please			cause(please	progress at			Corrective action<20	action <20	ı
Date of occurrence	Incident nature	Location of occurrence	refer to guidance	Receptor	Cause of incident	specify)	time of incident	Communication	Occurrence	words	words	ı
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			į
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			9
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			S
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			S
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			9
Total number of												
incidents current												
year	0											
Total number of												
incidents previous												
year	3											
% reduction/												

WASTE SUMMARY					Lic No:	W0021-02		Year	2016	5		
CTION A-PRTR O	N SITE WASTE TREATMENT AND	WASTE TRANSFERS TAB-	TO BE COMPLETED B	Y ALL IPPC AND WAS	STE FACILITIES	PRTR facility logor	1	dropdow	n list click to see options			-
	PRTR submitted											
CTION D WASTE	ACCEPTED ONTO SITE TO BE COL	MOLETED BY ALL IDDC AN	D WASTE FACILITIES			-						
ECTION B- WASTE	ACCEPTED ONTO SITE-TO BE CO	VIPLETED BY ALL IPPC AN	D WASTE FACILITIES				Additional Information	nn.				
							Additional information	1				
	ed onto your site for recovery or disposal ured through PRTR reporting)	or treatment prior to recovery o	r disposal within the boun	daries of your facility ?; (v	vaste generated within your	No						
yes please enter detail:						NO		1				
yes piease enter detail.	3 III table 1 below											
d your site have any re	jected consignments of waste in the curr	ent reporting year? If yes please	give a brief explanation in	the additional informatio	n	No						
	aste accepted onto your site that was gen					No						
	f waste accepted onto your											-
Licenced annual onnage limit for your	EWC code	Source of waste accepted	Description of waste	Quantity of waste	Quantity of waste accepted in	Reduction/	Reason for reduction/increase	Packaging Content (%)-	Disposal/Recovery or treatment	Quantity of	Comments -	
site (total			accepted Please enter an	accepted in current reporting year (tonnes)	previous reporting year (tonnes)	Increase over previous year +/ -	from previous	only applies if the waste has a packaging	operation carried out at your site and the description of this operation	waste remaining on		
tonnes/annum)			accurate and detailed	3,11		%	reporting year	component		site at the end		
			description - which applies to relevant EWC							of reporting year (tonnes)		
			code							year (tornies)		
	European Waste Catalogue EWC codes		European Waste									
			Catalogue EWC codes									
												-
ECTION C-TO BE C	OMPLETED BY ALL WASTE FACILI	TIES (waste transfer stati	ons, Composters, Ma	iterial recovery facili	ities etc) EXCEPT LANDFILL SITE	ES .						
ECTION C-TO BE C	OMPLETED BY ALL WASTE FACILI	TIES (waste transfer stati	ons, Composters, Ma	iterial recovery facili	ties etc) EXCEPT LANDFILL SITE	ES						
ECTION C-TO BE C	OMPLETED BY ALL WASTE FACILI	TIES (waste transfer stati	ons, Composters, Ma	iterial recovery facili	ties etc) EXCEPT LANDFILL SITE	ES .						
	OMPLETED BY ALL WASTE FACILI			-		SELECT						
				-								
all waste processing in		nd approved by the Agency in pl	ace? If no please list waste	e processing infrastructure	e required onsite							
all waste processing in all waste storage infra:	frastructure as required by your licence a structure as required by your licence and	nd approved by the Agency in pl	ace? If no please list waste	e processing infrastructure	e required onsite	SELECT						
all waste processing in all waste storage infra:	frastructure as required by your licence a structure as required by your licence and elevant nuisance controls in place?	nd approved by the Agency in pl approved by the Agency in place	ace? If no please list waste	e processing infrastructure	e required onsite	SELECT						
all waste processing in all waste storage infra: ves your facility have re you have an odour m	frastructure as required by your licence a structure as required by your licence and elevant nuisance controls in place? anagement system in place for your facili	nd approved by the Agency in pl approved by the Agency in place	ace? If no please list waste	e processing infrastructure	e required onsite	SELECT SELECT						
all waste processing in all waste storage infra: pes your facility have re you have an odour m o you maintain a sludge	frastructure as required by your licence a structure as required by your licence and elevant nuisance controls in place? anagement system in place for your facili e register on site?	nd approved by the Agency in pl approved by the Agency in place by? If no why?	ace? If no please list waste	e processing infrastructure	e required onsite	SELECT SELECT SELECT SELECT						
all waste processing in all waste storage infra: best your facility have re by you have an odour mo you maintain a sludge ECTION D-TO BE C	frastructure as required by your licence a structure as required by your licence and elevant nuisance controls in place? anagement system in place for your facili e register on site?	nd approved by the Agency in pl approved by the Agency in place by? If no why?	ace? If no please list waste	e processing infrastructure	e required onsite	SELECT SELECT SELECT SELECT						
all waste processing in all waste storage infra: best your facility have re by you have an odour m by you maintain a sludge ECTION D-TO BE C	frastructure as required by your licence a structure as required by your licence and elevant nuisance controls in place? anagement system in place for your facili e register on site?	nd approved by the Agency in pl approved by the Agency in place by? If no why?	ace? If no please list waste	e processing infrastructure	e required onsite	SELECT SELECT SELECT SELECT						
all waste processing in all waste storage infra: best your facility have re by you have an odour m by you maintain a sludge ECTION D-TO BE C	frastructure as required by your licence a structure as required by your licence and elevant nuisance controls in place? anagement system in place for your facili e register on site?	nd approved by the Agency in pl approved by the Agency in place by? If no why?	ace? If no please list waste	e processing infrastructure	e required onsite	SELECT SELECT SELECT SELECT						
all waste processing in all waste storage infra: be your facility have re you have an odour m you maintain a sludge ECTION D-TO BE Cable 2 Waste type	frastructure as required by your licence a structure as required by your licence and elevant nuisance controls in place? anagement system in place for your facilit register on site? OMPLETED BY LANDFILL SITES O and tonnage-landfill only	nd approved by the Agency in place approved by the Agency in place sy? If no why?	ace? If no please list waste str	e processing infrastructure	e required onsite	SELECT SELECT SELECT SELECT						
all waste processing in all waste storage infra: bees your facility have re o you have an odour m o you maintain a sludge ECTION D-TO BE C able 2 Waste type Vaste types permitted for disposal	frastructure as required by your licence a structure as required by your licence and elevant nuisance controls in place? anagement system in place for your facili register on site? OMPLETED BY LANDFILL SITES O and tonnage-landfill only Authorised/licenced annual intake for disposal (tpa)	approved by the Agency in place approved by the Agency in place ty? If no why? NLY Actual intake for disposal in reporting year (tpa)	ace? If no please list waste	e processing infrastructure requi	e required onsite	SELECT SELECT SELECT SELECT						
all waste processing in all waste storage infra: bee your facility have re by you have an odour m by you maintain a sludge ECTION D-TO BE C able 2 Waste type Vaste types permitted for disposal	frastructure as required by your licence a structure as required by your licence and elevant nuisance controls in place? anagement system in place for your facility register on site? OMPLETED BY LANDFILL SITES O and tonnage-landfill only Authorised/licenced annual intake for	approved by the Agency in place approved by the Agency in place y? If no why? NLY Actual intake for disposal in	Remaining licensed capacity at end of reporting year (m3)	e processing infrastructure requi	e required onsite	SELECT SELECT SELECT SELECT						
all waste processing in all waste storage infra: bees your facility have re o you have an odour m o you maintain a sludge ECTION D-TO BE C able 2 Waste type Vaste types permitted for disposal	frastructure as required by your licence a structure as required by your licence and elevant nuisance controls in place? anagement system in place for your facili register on site? OMPLETED BY LANDFILL SITES O and tonnage-landfill only Authorised/licenced annual intake for disposal (tpa)	approved by the Agency in place approved by the Agency in place ty? If no why? NLY Actual intake for disposal in reporting year (tpa)	ace? If no please list waste strength of the s	e processing infrastructure requi	e required onsite	SELECT SELECT SELECT SELECT						
all waste processing in all waste storage infra: bee your facility have re by you have an odour m by you maintain a sludge ECTION D-TO BE C able 2 Waste type Vaste types permitted for disposal	frastructure as required by your licence a structure as required by your licence and elevant nuisance controls in place? anagement system in place for your facili register on site? OMPLETED BY LANDFILL SITES O and tonnage-landfill only Authorised/licenced annual intake for disposal (tpa)	approved by the Agency in place approved by the Agency in place ty? If no why? NLY Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	e processing infrastructure requi	e required onsite	SELECT SELECT SELECT SELECT						
all waste processing in all waste storage infra: oes your facility have re o you have an odour m o you maintain a sludge ECTION D-TO BE C able 2 Waste type Vaste types permitted for disposal (A	frastructure as required by your licence a structure as required by your licence and elevant nuisance controls in place? anagement system in place for your facilities register on site? OMPLETED BY LANDFILL SITES Of and tonnage-landfill only Authorised/licenced annual intake for disposal (tpa) 0	approved by the Agency in place approved by the Agency in place ty? If no why? NLY Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	e processing infrastructure requi	e required onsite	SELECT SELECT SELECT SELECT						
all waste processing in all waste storage infra: oes your facility have re o you have an odour m o you maintain a sludge ECTION D-TO BE C able 2 Waste type Vaste types permitted for disposal (A	frastructure as required by your licence a structure as required by your licence and elevant nuisance controls in place? anagement system in place for your facili register on site? OMPLETED BY LANDFILL SITES O and tonnage-landfill only Authorised/licenced annual intake for disposal (tpa)	approved by the Agency in place approved by the Agency in place ty? If no why? NLY Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	e processing infrastructure requi	e required onsite	SELECT SELECT SELECT SELECT						
all waste processing in all waste storage infra: oes your facility have re o you have an odour m o you maintain a sludge ECTION D-TO BE C able 2 Waste type Vaste types permitted for disposal (A	frastructure as required by your licence a structure as required by your licence and elevant nuisance controls in place? anagement system in place for your facilities register on site? OMPLETED BY LANDFILL SITES Of and tonnage-landfill only Authorised/licenced annual intake for disposal (tpa) 0	approved by the Agency in place approved by the Agency in place ty? If no why? NLY Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	e processing infrastructure requi	e required onsite	SELECT SELECT SELECT SELECT				Total disposal	Lined disposal	
all waste processing in all waste storage infra: bes your facility have re by you have an odour m by you maintain a sludge ECTION D-TO BE C able 2 Waste type Waste types permitted for disposal A able 3 General infr	frastructure as required by your licence a structure as required by your licence and selevant nuisance controls in place? anagement system in place for your facility register on site? OMPLETED BY LANDFILL SITES Of and tonnage-landfill only Authorised/licenced annual intake for disposal (tpa) 0 0 ormation-Landfill only	approved by the Agency in place sproved by the Agency in place sy? If no why? NLY Actual intake for disposal in reporting year (tpa) 0	Remaining licensed capacity at end of reporting year (m3)	e processing infrastructure requi	e required onsite red on site	SELECT SELECT SELECT SELECT	Licence permits	Is there a separate cell		area occupied by	area occupied by	Unlined area
all waste processing in all waste storage infra: oes your facility haver o you have an odour m o you maintain a sludge ECTION D-TO BE C able 2 Waste type Waste types permitted for disposal	frastructure as required by your licence a structure as required by your licence and elevant nuisance controls in place? anagement system in place for your facilities register on site? OMPLETED BY LANDFILL SITES Of and tonnage-landfill only Authorised/licenced annual intake for disposal (tpa) 0	approved by the Agency in place approved by the Agency in place ty? If no why? NLY Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	comments	e required onsite	SELECT SELECT SELECT SELECT SELECT SELECT	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year			Unlined area

Non Hazardous

Table 4 Environmental monitoring-landfill only Landfill

circa 1974

Landfill Manual-Monitoring Standards

Apr-12 No

WASTE SUMM	ARY				Lic No:	W0021-02		Year	2016
Was meterological monitoring in compliance with Lar Directive (LD) stand		Was Landfill Gas monitored in compliance with LD standard in		Have GW trioger levels	Were emission limit values agreed with	Was topography of the site	Has the statement under S53(A)(5) of WMA been submitted in		
in reporting year +	with LD standard in reporting year		standard in reporting year				reporting year	Comments	
Yes	Yes	Yes	Yes	Yes	No	No	No	GW report completed in	n 2016 with trigger levels

.+ please refer to Landfill Manual linked above for relevant Landfill Directive monitoring standards

Table 5 Capping-Landfill only

. anic o capping La						
Area uncapped*	Area with temporary cap			Area with waste that should be permanently		
		Area with final cap to LD		capped to date under		
SELECT UNIT	SELECT UNIT	Standard m2 ha, a	Area capped other	licence	What materials are used in the cap	Comments
0	0	39,000m2	approx 42,000m2	39,000m2	1mm lldpe liner and .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? If yes please complete leachate mass load information below

Yes No

Volume of leachate in reporting year(m3)		Leachate (NH3-N) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum		Specify type of leachate treatment	Comments
33375.3				N/A		

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				
					1
					ı
					1
					L
			Was surface emissions		L
Gas Captured&Treated			monitoring performed		
by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	during the reporting year?	Comments	
251 298 m3 ch4	168 58	national grid	No	mix of flare and engine	Ç,

251,298 m3 ch4 168.58 national grid No mix of flare and engine. Surface emissions carried out in 2013.



Guidance to completing the PRTR workbook

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR 20)16
-------------------	-----

1. FACILITY IDENTIFICATION

TAGELL LIBERTILICATION					
Parent Company Name	Mayo County Council				
Facility Name	Derrinumera Landfill Facility				
PRTR Identification Number	W0021				
Licence Number	W0021-02				

Classes of Activity

	No.	class_name
I	-	Refer to PRTR class activities below

Address 1	Derrinumera/Drumilra (Townlands)
Address 2	Newport
Address 3	
Address 4	
	Мауо
Country	
Coordinates of Location	-7.4634 53.8497
River Basin District	IEWE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Killian Farrell
AER Returns Contact Email Address	kfarrell@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	0
Number of Operating Hours in Year	0
Number of Employees	5
User Feedback/Comments	Site is operating as a CA site. No waste is accepted to landfill since closure in 2012.
	The landfill gas being experienced and utilised or flared at the site is much lower
	than that predicted by GASSIM. This is resulting in a higher emission calculation.
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)

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

4. WASTE IMPORTED/ACCEPTED ONTO SITE

Guidance on waste imported/accepted onto site

4. WASTE IIIII OKTEDIASSEL TED SITTO SITE	Caldance on waste imported/accepted onto site
Do you import/accept waste onto your site for on-	
site treatment (either recovery or disposal	
activities) ?	No

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

SECTION A: SECTOR SPECIFIC PRTR POLLUTANTS

CECTION AT CECTOR OF ECHIOT MINT CEE											
	RELEASES TO AIR				Please enter all quantities in this section in KGs						
	POLLUTANT		ME	THOD			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			
			*	Calculated from			•				
01	Methane (CH4)	С	OTH	Flare/engine	547134.0	547134.0	0.	0.0			
03	Carbon dioxide (CO2)	M	CRM	Gassim	2057649.0	0.0	0.	0.0			

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

SECTION B : REMAINING PRTR POLLUTANTS

	RELEASES TO AIR							
	POLLUTANT				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/Y	ear F (Fugitive) KG/Year
					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			
				Method 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	0.0		

^{*} 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 NgUy for Section A Sector specific Pfire pollutants above. Please complete the table below:

Link to previous years emissions data

Landfill: Derrinumera Landfill Facility

Please enter summary data on the quantities of methane flared and / or utilised			Method Used			
	T (Total) kg/Year	M/C/E	Method Code	Designation or Description	Facility Total Capacity m3 per hour	1
Total estimated methane generation (as per		IVI/C/E	Wethou Code	Designation of Description	mo per nour	1
site model)		M	CRM	Gassim 2.5	N/A	i
Methane flared	94813.0	С	OTH	Bernard Hyde Spreadsheet.	250.0	(Total Flaring Capacity)
Methane utilised in engine/s	64720.0	С	OTH	Bernard Hyde Spreadsheet.		(Total Utilising Capacity)
Net methane emission (as reported in Section						i
A above)	547134.0	С	oth	subtraction	N/A	i
		С	oth	subtraction	N/A	

			Please enter all quantitie	es on this sheet in Tonr	ies	, ,						15
									Haz Waste: Name and Licence/Permit No of Next	Haz Waste : Address of	Name and License / Permit No. and Address	Actual Address of Final
									Destination Facility	Next Destination Facility	of Final Recoverer /	Destination i.e. Final
			Quantity (Tonnes per						Non Haz Waste: Name and Licence/Permit No of	Non Haz Waste: Address of	Disposer (HAZARDOUS	Recovery / Disposal Site (HAZARDOUS
			Year)				Method Used		Recover/Disposer	Recover/Disposer	WASTE ONLY)	WASTE ONLY)
Transfer Destination	European Waste Code	Hazardous		Description of Waste	Waste Treatment Operation	M/C/E	Method Used	Location of Treatment				
			I		•		*			Waverly		
Within the Country	02 01 04	No	40.0 F	Farm Plastic	R3	M	Weighed	Offsite in Ireland	IFFPG,Exempt	Road,.,Dublin,10,Ireland Carrowbrowne Headford		
Within the Country	15 01 02	No	26.46 p	plastic packaging	R3	М	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Road ,.,Galway,.,Ireland		
Within the Country	15 01 02	No	24.04 r	plastic packaging	R3	М	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Road ,.,Galway,.,Ireland		
										Carrowbrowne Headford		
Within the Country	15 01 05	No	9.1 0	composite packaging	R3	М	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Road ,.,Galway,.,Ireland		
				packaging containing residues of or						Grants Drive,402	RILTA,W0192-02,grants drive,402 greenogue	grants drive.402
				contaminated by						Greenogue Business Park		greenogue Business Park
Within the Country	15 01 10	Yes	2.26 0	dangerous substances	R1	М	Weighed	Offsite in Ireland	RILTA,W0192-02	rathcoole,Dublin,.,Ireland	rathcoole,Dublin,.,Ireland	rathcoole,Dublin,.,Ireland
									Midlands scrap	Annagh,.,Birr co		
Within the Country	16 01 03	No	10.18 €	end-of-life tyres	R5	М	Weighed	Offsite in Ireland	metal,WFP-TN-11003-02	Offaly,.,Ireland	ENVA,W0184-	
										Grants Drive,402	01,Clonminam Industrial	
Within the Country	16 01 07	Yes	0.4.6	oil filters	R9	М	Weighed	Offsite in Ireland	RILTA,W0192-02	Greenogue Business Park rathcoole, Dublin,.,Ireland		.,.,,, reland
Within the Country	100101	163	0.4 0	on nicers	N.S	101	Weighted	Offsite III II clarid	META, W0132-02	raticoole, bubiiri, ., ir elarid		.,.,., elana
			p	gases in pressure							Recyfuel SA,BE 459735458,Zoning	
			c c	containers (including						Clonminam Industrial	Industrial	
To Other Countries	16 05 04	Yes		halons) containing dangerous substances	R4	м	Weighed	Abroad	ENVA,W0184-01	Estate,.,Portlaoise Co.Laois,.,Ireland	dHein,.,Engis,B4480,Belgiu m	.,.,,,Belgium
							•					,,,,
				gypsum-based construction materials								
Within the Country	17 08 02	No		other than those	R5	М	Mainhad	Offsite in Ireland	D W W0100 02	Carrowbrowne Headford		
Within the Country	17 00 02	NO			KS	M	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Road ,.,Galway,.,Ireland		
				landfill leachate other than those mentioned in					Rathroeen landfill	Killala Road,.,Ballina		
Within the Country	19 07 03	No	25788.52 1	19 07 02	D9	М	Weighed	Offsite in Ireland	site,W0067-02	Co.Mayo,.,Ireland		
			l:	landfill leachate other								
			t	than those mentioned in						Swinford		
Within the Country	19 07 03	No	7586.78 1	19 07 02	D9	М	Weighed	Offsite in Ireland	01 (Applied) Bourke	,.,Co.Mayo,.,Ireland		
										Clogher,.,Westport,.,Irelan		
Within the Country	20 01 01	No	139.72 p	paper and cardboard	R3	М	Weighed	Offsite in Ireland	1	d		
Within the Occurren	00.04.04	No				М	Watehaal			Turlough,.,Castlebar,.,Irela		
Within the Country	20 01 01	NO	115.64 p	paper and cardboard	R3	М	Weighed	Offsite in Ireland	10-0015-02	nd Ballymount,.,Dublin,.,Irela		
Within the Country	20 01 02	No	69.9 g	glass	R5	М	Weighed	Offsite in Ireland	Rehab Recycling,03//02	nd		
									Midlands scrap	Annagh,.,Birr co		
Within the Country	20 01 02	No	15.0 g	glass	R5	М	Weighed	Offsite in Ireland	metal,WFP-TN-11003-02	Offaly,.,Ireland .,Unit 504A Greenogue		
										Business Park		
Within the Country	20 01 10	No	20.16	riothes	R3	М	Weighed	Offsite in Ireland	Textile Recycling Ltd,WPR - 014	Rathcoole, Dublin, 24, Irelan d		
,											KMK metal,W0113-	
			f	fluorescent tubes and						Cappincur Industrial estate, Daingean	02,Cappincur Industrial estate Daingean	
Within the Country	20 01 21	Yes	0.747 v	other mercury-containing	R4	М	Weighod	Offsite in Ireland	KMK metal,W0113-02	Road,Tullamore Co.	road,.,Tullamore Co.	Iroland
within the Country	200121	ies	U.747 V	waste	I/4	IVÍ	Weighed	Onsite in Ireland	KIVIK Metal, WU113-U2	Offaly,,,Ireland	KMK metal,W0113-	.,.,.,Ireland
				discarded equipment						Cappincur Industrial	02,Cappincur Industrial	
			c	discarded equipment containing						estate,Daingean Road,Tullamore Co.	estate Daingean road,.,Tullamore Co.	
Within the Country	20 01 23	Yes	17.882 0	chlorofluorocarbons	R4	М	Weighed	Offsite in Ireland	KMK metal,W0113-02	Offaly,.,Ireland	Offaly,.,Ireland	.,.,.,Ireland
Within the Country	20 01 25	No	0.84 €	edible oil and fat	R3	М	Weighed	Offsite in Ireland	Frylite,CW227	Kilcolgan,.,Galway,.,Ireland		
				oil and fat other than						Grants Drive,402	ENVA,W0184- 01,Clonminam Industrial	
			t	those mentioned in 20 01						Greenogue Business Park	estate,.,Portlaoise Co.	
Within the Country	20 01 26	Yes	6.9 2	25	R9	М	Weighed	Offsite in Ireland	RILTA,W0192-02	rathcoole,Dublin,.,Ireland	Laois,.,Ireland	.,.,.,Ireland

										0 (10105	
										Recyfuel SA,BE 459735458,Zoning	
			paint, inks, adhesives and						Unit 1A Allied Industrial	Industrial	
			resins containing					Ecosafe	Estate Kylemore	dHein,.,Engis,B4480,Belgiu	
To Other Countries	20 01 27	Yes	8.64 dangerous substances	R1	М	Weighed	Abroad	systems(SRCL),W0054-02	Road,.,Dublin ,10,Ireland	m	.,.,.,Belgium
			batteries and								
			accumulators included in								
			16 06 01, 16 06 02 or 16								
			06 03 and unsorted							RILTA,W0192-02,grants	
			batteries and						Grants Drive,402	drive,402 greenogue	grants drive,402
Within the Country	20 01 33	Yes	accumulators containing 3.0 these batteries	R4	М	Weighed	Offsite in Ireland	RILTA,W0192-02	Greenogue Business Park	Business Park rathcoole, Dublin,., Ireland	greenogue Business Park
,								,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,	,,,
			batteries and								
			accumulators included in 16 06 01, 16 06 02 or 16							KMK metal,W0113-	
			06 03 and unsorted						Cappincur Industrial	02,Cappincur Industrial	
			batteries and						estate,Daingean	estate Daingean	
			accumulators containing						Road, Tullamore Co.	road,.,Tullamore Co.	
Within the Country	20 01 33	Yes	1016.0 these batteries	R4	М	Weighed	Offsite in Ireland	KMK metal,W0113-02	Offaly,.,Ireland	Offaly,.,Ireland KMK metal,W0113-	.,.,.,Ireland
			batteries and						Cappincur Industrial	02,Cappincur Industrial	
			accumulators other than						estate,Daingean	estate Daingean	
			those mentioned in 20 01						Road, Tullamore Co.	road,.,Tullamore Co.	
Within the Country	20 01 34	No	0.96 33	R4	M	Weighed	Offsite in Ireland	KMK metal,W0113-02	Offaly,.,Ireland	Offaly,.,Ireland	.,.,.,Ireland
			discarded electrical and								
			electronic equipment						Cappincur Industrial		
			other than those						estate,Daingean		
Within the Country	20 01 36	No	mentioned in 20 01 21, 20 34.035 01 23 and 20 01 35	R4	М	Weighed	Offsite in Ireland	KMK metal,W0113-02	Road,Tullamore Co. Offaly,.,Ireland		
William ale Country	20 01 30	140	54.035 01 25 and 20 01 35	1/14	IVI	Weighted	Offsite in ireland	KIVIK IIIEtai, WO113-02	Onaly,,,ireland		
			discarded electrical and								
			electronic equipment other than those						Cappincur Industrial estate,Daingean		
			mentioned in 20 01 21, 20						Road,Tullamore Co.		
Within the Country	20 01 36	No	31.414 01 23 and 20 01 35	R4	М	Weighed	Offsite in Ireland	KMK metal,W0113-02	Offaly,.,Ireland		
			discarded electrical and								
			electronic equipment						Cappincur Industrial		
			other than those						estate,Daingean		
			mentioned in 20 01 21, 20						Road,Tullamore Co.		
Within the Country	20 01 36	No	93.165 01 23 and 20 01 35	R4	М	Weighed	Offsite in Ireland	KMK metal,W0113-02	Offaly,.,Ireland		
			wood other than that					Rathroeen landfill	Killala Road,.,Ballina		
Within the Country	20 01 38	No		R13	M	Weighed	Offsite in Ireland	site,W0067-02	Co.Mayo,.,Ireland		
Mile in the Oriente	00.04.00	No.	#0.00 I II			Material			Carrowbrowne Headford		
Within the Country	20 01 39	No	53.08 plastics	R3	М	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Road ,.,Galway,.,Ireland		
								Galway Metal,WFP-11-G-	Oranmore,.,Galway,.,Irela		
Within the Country	20 01 40	No	152.04 metals	R4	М	Weighed	Offsite in Ireland	0005-01	nd		
Mile in the Oriente	00.04.40	No.				Material			Carrowbrowne Headford		
Within the Country	20 01 40	No	6.64 metals	R4	М	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Road ,.,Galway,.,Ireland		
									Oranmore,.,Galway,.,Irela		
Within the Country	20 01 40	No	21.08 metals	R4	М	Weighed	Offsite in Ireland	0005-01	nd		
Within the Country	20 02 01	No	25.49 biodegradable waste	R3	М	Weighed	Offsite in Ireland	Rarna Waste W0106 02	Carrowbrowne Headford		
Within the Country	20 02 01	No	25.48 biodegradable waste	NO.	IVI	Weighed	Onside III II elanu	Barna Waste,W0106-02	Road ,.,Galway,.,Ireland		
								Rathroeen landfill	Killala Road,.,Ballina		
Within the Country	20 03 01	No	957.0 mixed municipal waste	D5	М	Weighed	Offsite in Ireland	site,W0067-02	Co.Mayo,.,Ireland		
								McGraths Waste Ltd wfo.	Turlough,.,Castlebar,.,Irela		
Within the Country	20 03 01	No	771.54 mixed municipal waste	D5	м	Weighed	Offsite in Ireland	10-0015-02	nd		
			waste plastics (except						Derryvale,.,Roscrea Co.		
Within the Country	02 01 04	No No	8.2 packaging)	R3	М	Weighed	Offsite in Ireland	FRS ,Exempt	Tipperary,.,Ireland		
		* Select a row by double-clicking the Descri	iption of Waste then click the dele	te button							



A survey of landfill sites to determine the quantity of methane flared and or recovered in utilisation plants for 2016

Please choose from the drop down menu the license number for	your site	W0021	▼	
Please choose from the drop down menu the name of the landfill	site	Derrinumera La	andfill Facility	~
Please enter the number of flares operational at your site in 2016		1	▼	
Please enter the number of engines operational at your site in 20	16	1	▼	
•	Total methane flared		94,813 kg/year	
	Total methane utilised in engines		64,720 kg/year	

Please note that the closing date for reciept of completed surveys is 31/03/2017

Introduction

The Office of Environmental Sustainability (OES) 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 emission reduction targets under the Effort Sharing Decision (No. 406/2009/EC). 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.

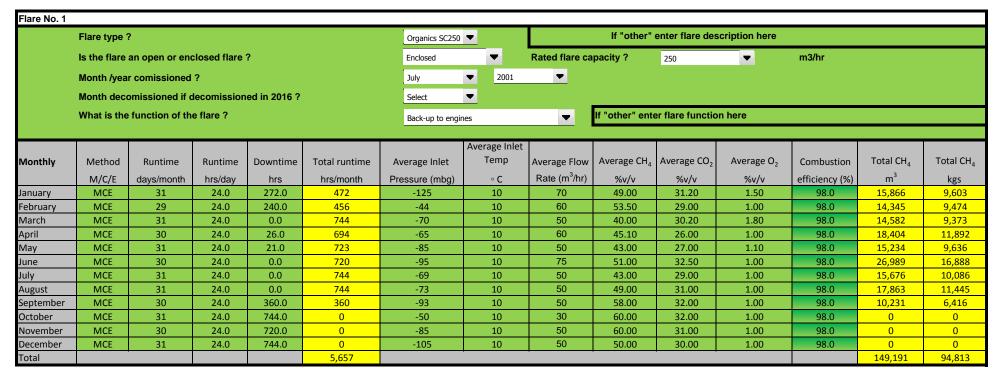
It is on this basis that the Environmental Protection Agency is asking landfill operators to partake in this survey so that the most uptodate information on methane flaring and recovery in utilisation plants at landfills sites is used in calculating the contribution of the landfill sector to national 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_2015) to: LFGProject@epa.ie

to be filled in by licensee calculated by spreadsheet



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

							Average Inlet							
Yearly	Method	Runtime	Runtime	Downtime	Total runtime	Average Inlet	Temp	Average Flow	Average CH ₄	Average CO ₂	Average O ₂	Combustion	Total CH ₄	Total CH ₄
	M/C/E	days/year	hrs/day	hrs	hrs/year	Pressure (mbg)	∘ C	Rate m ³ /hr	%v/v	%v/v	%v/v	efficiency (%)	m^3	kgs
2016					0		10					98.0	0	0

to be filled in by licensee calculated by spreadsheet

Engine No. 1														
	Engine type	?				Other	_							
	Month /year	comissioned?				November	▼	2014	▼					
	Month decomissioned if decomissioned in 2016 ?					Select ▼								
							Average Inlet							
Monthly	Method	Runtime	Runtime	Downtime	Total runtime	Average Inlet	Temp	Average Flow	Average CH ₄	Average CO ₂	Average O ₂	Combustion	Total CH₄	Total CH ₄
	M/C/E	days/month	hrs/day	hrs	hrs/month	Pressure (mbg)	∘ C	Rate (m ³ /hr)	%v/v	%v/v	%v/v	efficiency (%)	m ³	kgs
January	MCE	31	24	472	272	-125	10	100	49.00	31.20	1.50	98.0	13,061	7,906
February	MCE	29	24	456	240	-44	10	100	53.50	29.00	1.00	98.0	12,583	8,311
March	MCE	31	24	744	0	-70	10	100	40.00	30.20	1.80	98.0	0	0
April	MCE	30	24	694	26	-65	10	100	45.10	26.00	1.00	98.0	1,149	743
May	MCE	31	24	723	21	-85	10	100	43.00	27.00	1.10	98.0	885	560
June	MCE	30	24	720	0	-95	10	100	51.00	32.50	1.00	98.0	0	0
July	MCE	31	24	744	0	-69	10	100	43.00	29.00	1.00	98.0	0	0
August	MCE	31	24	744	0	-73	10	100	49.00	31.00	1.00	98.0	0	0
September	MCE	30	24	213	507	-93	10	100	58.20	32.00	1.00	98.0	28,917	18,133
October	MCE	31	24	427	317	-50	10	100	60.00	32.00	1.00	98.0	18,640	12,235
November	MCE	30	24	468	252	-85	10	100	60.00	31.00	1.00	98.0	14,818	9,373
December	MCE	31	24	498	246	-105	10	100	50.00	30.00	1.00	98.0	12,054	7,460
Total					1,881								102,107	64,720

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

							Average Inlet							
Yearly	Method	Runtime	Runtime	Downtime	Total runtime	Average Inlet	Temp	Average Flow	Average CH ₄	Average CO ₂	Average O ₂	Combustion	Total CH ₄	Total CH ₄
	M/C/E	days/year	hrs/day	hrs	hrs/year	Pressure (mbg)	。 C	Rate m ³ /hr	%v/v	%v/v	%v/v	efficiency (%)	m ³	kgs
2016					0	Select	10					98.0	0	0