Facility Information Summary	
AER Reporting Year	2017
Licence Register Number	W0017-04
Name of site	Gortadroma Landfill
Site Location	Gortadroma, Ballyhahill, Co. Limerick.
NACE Code	3821
Class/Classes of Activity	Class 1,5,6,7,11,13 of Third Schedule and Class 2,3,4,9,10,11,12,13 of Fourth Schedule
National Grid Reference (6E, 6 N)	-6.45823, 53.8084

A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year **and an overview of compliance with your licence** listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.

The following waste streams were accepted in the Civic Amenity Site and transferred off site for disposal and recycling in 2017: mixed municipal waste, bulky waste, newspapers, cardboard, plastic bottles, tetrapaks, food & drink cans, glass bottles, textiles and mixed metals. A leachate treatment plant and a gas utilisation plant were also in operation at the site in 2017. There were no major infrastructural changes made at the site in 2017. Licence compliance monitoring carried out in 2017 for air, groundwater and surface water was in compliance with the licence limits. The site received 0 complaints and had no incidents in 2017.

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.

John O'Carroll	01/03/2018
Signature	Date
Group/Facility manager (or nominated, suitably qualified and experienced deputy)	

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Answer all questions and complete all tables where relevant

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

Periodic/Non-Continuous Monitoring

2	Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below	No	
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	Yes	

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
Utilisation Plant - Visit 1	Total Particulate Matter (TPM)	Annually	N/A	N/A	0.99	mg/m^3	N/A	Gravimetric	0.003 kg/h^1	N/A
Utilisation Plant - Visit 1	Carbon Monoxide (CO)	Biannually	1,400	100 % of values < ELV	759	mg/m^3	yes	NCIR By Horiba PG-250	2.58 kg/h^1	N/A
Utilisation Plant - Visit 1	Oxides of Nitrogen (No_x) as NO_2	Biannually	500	100 % of values < ELV	480	mg/m^3	yes	Chemiluminescence	1.63 kg/h^1	N/A
Utilisation Plant - Visit 1	T A Luft Organics	Annually	75	100 % of values < ELV	<0.93	mg/m^3	yes	Thermal Desorption	0.003 kg/h^1	N/A
Utilisation Plant - Visit 1	Sulphur Dioxide (SO_2)	Biannually	N/A	N/A	337	mg/m^3	N/A	NDIR Absorption	1.14 kg/h^1	N/A
Utilisation Plant - Visit 1	Oxygen (%)	Biannually	N/A	N/A	6.32	% v/v	N/A	Paramagnetic	N/A	N/A
Utilisation Plant - Visit 1	Stack Gas Temperature	Biannually	N/A	N/A	683.15	K	N/A	Thermocouple	N/A	N/A
Utilisation Plant - Visit 1	Stack Gas Velocity	Biannually	N/A	N/A	32.25	m/s^1	N/A	Pilot tubes	N/A	N/A
Utilisation Plant - Visit 1	Volumetric Flow Rate	Biannually	N/A	N/A	3,700	m^3/h^1	N/A	Standard Method	N/A	N/A
Utilisation Plant - Visit 1	Volumetric Flow Rate (Ref.)	Biannually	N/A	N/A	3,398	m^3/h^1	N/A	Standard Method	N/A	N/A
Utilisation Plant - Visit 2	Carbon Monoxide (CO)	Biannually	1,400	100 % of values < ELV	1,036.16	mg/m^3	yes	NCIR By Horiba PG-250	2.94 kg/h^1	N/A
Utilisation Plant - Visit 2	Oxides of Nitrogen (No_x) as NO_2	Biannually	500	100 % of values < ELV	221.45	mg/m^3	yes	Chemiluminescence	0.62 kg/h^1	N/A

AIR-summary template					Lic No:	W0017-04		Year	2017	
Utilisation Plant - Visit 2	Sulphur Dioxide (SO_2)	Biannually	N/A	N/A	1,321.03	mg/m^3	N/A	NDIR Absorption	3.75 kg/h^1	N/A
Utilisation Plant - Visit 2	Oxygen (%)	Biannually	N/A	N/A	6.25	% v/v	N/A	Paramagnetic	N/A	N/A
Utilisation Plant - Visit 2	Stack Gas Temperature	Biannually	N/A	N/A	709.15	K	N/A	Thermocouple	N/A	N/A
Utilisation Plant - Visit 2	Stack Gas Velocity	Biannually	N/A	N/A	31.37	m/s^1	N/A	Pilot tubes	N/A	N/A
Utilisation Plant - Visit 2	Volumetric Flow Rate	Biannually	N/A	N/A	3,558	m^3/h^1	N/A	Standard Method	N/A	N/A
Utilisation Plant - Visit 2	Volumetric Flow Rate (Ref.)	Biannually	N/A	N/A	2,842	m^3/h^1	N/A	Standard Method	N/A	N/A

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

AIR-summary template	Lic No:	W0017-04	Year	2017

Continuous Monitoring

4	Does your site carry out continuous air emissions monitoring?	Yes	
	If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)		
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	No	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	Yes	
7	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	No	

Table A2: Summary of average emissions -continuous monitoring

Emission reference no:	Parameter/ Substance	ELV in licence or any revision therof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
Gas Engine Outlet	Carbon monoxide (CO)	1400	15 mins	Daily average < ELV	mg/Nm³	897	1036	0	0	N/A
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					

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

Table A3: Abatement system bypass reporting table Bypass protocol

Date*	Duration** (hours)	Location	Reason for bypass	Impact magnitude	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-summary template	Lic No:	W0017-04	Year	2017

Solvent use and management on site

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

No

Table A4: Solvent Management Plan Summary
Total VOC Emission limit value

Solvent regulations — Please refer to linked solvent regulations to complete table 5 and 6

Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision therof	Compliance
					SELECT
					SELECT

Table A5: Solvent Mass Balance summary

	(I) Inputs (kg)	(O) Outputs (kg)						
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. by-	Solvents destroyed onsite through	Total emission of Solvent to air (kg)
							Total	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0017-04 Year 2017

			Additional information
1	Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If **you do not have** licenced emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections	Yes	
2	Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections	Yes	

Table W1 Storm water monitoring

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
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	

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

Table W2 Visual inspections-Please only enter details where contamination was observed.

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

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

				Additional information
3	Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below		No	
4	Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box	External /Internal Lab Quality checklist / Assessment of results checklist	Yes	

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

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision therof[Note 2]	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
SW4	Water	Electrical Conductivity	discrete	weekly	weekly	1000	All values < ELV	554	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard	APHA - 2510 - B	N/A	N/A
SW4	Water	Ammoniacal Nitrogen	discrete	weekly	weekly	0.78	All values < ELV	0.26	mg/l	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
SW4	Water	Suspended Solids	discrete	weekly	weekly	35	All values < ELV	8.55	mg/l	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PM0	N/A	N/A
SW4	Water	pH	discrete	weekly	weekly	6.0 < pH < 9.0	All values < ELV	7.71	pH units	yes	pH meter (Electrode)	APHA / AWWA "Standard	APHA - 4500 - H	N/A	N/A
SW4	Water	Chloride	discrete	weekly	weekly	250	All values < ELV	29.94	mg/l	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
L1	Water	pH	composite	weekly	weekly	6.0 < pH < 9.0	All values < ELV	7.62	pH units	yes	pH meter (Electrode)	APHA / AWWA "Standard	APHA - 4500 - H	N/A	N/A
L1	Water	BOD	composite	weekly	weekly	25	All values < ELV	2.4	mg/l	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
L1	Water	Suspended Solids	composite	weekly	weekly	35	All values < ELV	13.47	mg/l	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
L1	Water	Total Phosphorus	composite	weekly	weekly	2	All values < ELV	0.23	mg/l	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
L1	Water	Ammoniacal Nitrogen	composite	weekly	weekly	3	All values < ELV	0.15	mg/l	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A

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 Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0017-04 Year 2017

Continuous monitoring

			Additional Information
5	Does your site carry out continuous emissions to water/sewer monitoring?	Yes	
	If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)		
6	Did continuous monitoring equipment experience downtime? **If yes please record downtime in table W4 below**	No	
7	Do you have a proactive service contract for each piece of continuous monitoring equipment on site?	Yes	
8	Did abatement system bypass occur during the reporting year? **If yes please complete table W5 below**	No	

Table W4: Summary of average emissions -continuous monitoring

Emission reference no:	Emission released to	Parameter/ Substance	ELV or trigger values in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission for current reporting year (kg)	% change +/- from previous reporting year	Monitoring Equipment downtime (hours)	Number of ELV exceedences in reporting year	Comments
SW4	Water	pH	6 to 9	30 minutes	No flow value shall exceed the .specific limit	pH units	N/A	7.94% +	0	0	Annual Average = 6.8
SW4	Water	Conductivity	1000	30 minutes	No flow value shall exceed the .specific limit	µS/cm	N/A	0.41% +	0	0	Annual Average = 490

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

Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund/Pipeline testing template

Lic No: W0017-04 Year 2017

Bund testing

dropdown menu click to see options

			Additional information
1	Are you required by your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all **new bunds and containment structures** on site, in addition to **all bunds which failed** the integrity test-**all bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period** (mobile bunds and chemstore included)	Yes	
2	Please provide integrity testing frequency period	3 years	
3	Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)	Yes	
4	How many bunds are on site?	8	2 x leachate, 4 x lagoons in the treatment plant, 1 x storm water settling tank
5	How many of these bunds have been tested within the required test schedule?	2	slow sand filter & settling tank
6	How many mobile bunds are on site?	0	
7	Are the mobile bunds included in the bund test schedule?	N/A	
8	How many of these mobile bunds have been tested within the required test schedule?	N/A	
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?	Yes	
12	If yes to Q11 are these failsafe systems included in a maintenance and testing programme?	Yes	
13	Is the Fire Water Retention Pond included in your integrity test programme?	Yes	

Table B1: Summary details of bund /containment structure integrity test

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
Slow Sand Filter	other (please specify)	stone/sand filter overlaying HDPE	leachate	250 m³	N/A	Other (please specify)	Mobile Electrical Leak Location Survey	Jul-17	Yes	Pass	N/A	N/A	N/A	N/A
Storm Water Settling Tank	reinforced concrete	N/A	storm water	50,610 litres	N/A	Other (please specify)	Hydrostatic Test	07/08/2017	Yes	Pass	N/A	N/A	N/A	N/A

* Capacity required should comply with 25% or 110% containment rule as detailed in your licence

			Commentary
15	Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance? bunding and storage guidelines	Yes	
16	Are channels/transfer systems to remote containment systems tested?	No	
17	Are channels/transfer systems compliant in both integrity and available volume?	N/A	

Pipeline/underground structure testing

1	Are you required by your licence to undertake integrity testing* on underground structures e.g. pipelines or sumps etc ? if yes please fill out table 2 below listing all underground structures and pipelines on site **which failed the integrity test and all which have not been tested within the integrity test period as specified**	No	No underground pipes onsite require integrity testing
2	Please provide integrity testing frequency period	N/A	

*please note integrity testing means water tightness testing of all underground pipelines (as required under your licence)

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

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

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

Groundwater/Soil monitoring template	Lic No:	W0017-04	Year	2017

			Comments	
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes		Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER
2	Are you required to carry out soil monitoring as part of your licence requirements?	no		
3	Do you extract groundwater for use on site? If yes please specify use in comment section	yes		
4	Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below. Groundwater monitoring template	no		In general the water quality upgradient and down gradient of the site are similar. The average parameter concentrations are relatively consistent across the site and are relatively consistent for the past 5 years.
5	Is the contamination related to operations at the facility (either current and/or historic)	N/A		
6	Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	no		
7	Please specify the proposed time frame for the remediation strategy	N/A		
8	Is there a licence condition to carry out/update ELRA for the site?	yes	Condition 12.3.2	
9	Has any type of risk assesment been carried out for the site?	no		
10	Has a Conceptual Site Model been developed for the site?	no		
11	Have potential receptors been identified on and off site?	yes		
12	Is there evidence that contamination is migrating offsite?	no		

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	IGV	Upward trend in pollutant concentration over last 5 years of monitoring data
12/01 05/04 04/07 04/10	Collins Well	pH	pH meter (Electrode)	Quarterly	7.50	7.04	pH units	6.5 < pH < 9.5		no
12/01 05/04 04/07 04/10	Collins Well	Electrical Conductivity	Conductivity meter (Electrode)	Quarterly	712	694	µS/cm	800		no
12/01 05/04 04/07 04/10	Collins Well	DO	Dissolved oxygen meter (Electrode)	Quarterly	56	37	%		No abnormal change	no
12/01 05/04 04/07 04/10	Collins Well	Ammoniacal Nitrogen	Photometric Analysis	Quarterly	0.64	0.58	mg/l	2.2		no
12/01 05/04 04/07 04/10	Collins Well	Chloride	Photometric Analysis	Quarterly	23.60	23.1	mg/l	35		no
12/01 05/04 04/07 04/10	Collins Well	Sulphate	Photometric Analysis	Quarterly	13.50	13.18	mg/l		200	no

Groundwater/Soil monitoring template				Lic No:	W0017-04			Year	2017	
04/07/2017	Collins Well	Nitrate	Photometric Analysis	Annually		<0.2***	mg/l	37.5		no
04/07/2017	Collins Well	Ortho Phosphate	Photometric Analysis	Annually		<0.06***	mg/l	0.035		no

*** - All Results were less than the laboratory Limit of Dection

vhere average indicates arithmetic mean
ı measured concentration from all monitoring results produced during the reporting year

›wngradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	IGV	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
12/01 05/04 04/07 04/10	GW4o	pH	pH meter (Electrode)	Quarterly	7.6	7.43	pH units	6.5 < pH < 9.5		no
12/01 05/04 04/07 04/10	GW4o	Electrical Conductivity	Conductivity meter (Electrode)	Quarterly	621	601	µS/cm	800		no
12/01 05/04 04/07 04/10	GW4o	DO	Dissolved oxygen meter (Electrode)	Quarterly	39	34	%		No abnormal change	no
12/01 05/04 04/07 04/10	GW4o	Ammoniacal Nitrogen	Photometric Analysis	Quarterly	0.78	0.68	mg/l	2.2		no
12/01 05/04 04/07 04/10	GW4o	Chloride	Photometric Analysis	Quarterly	20	19.83	mg/l	35		no
12/01 05/04 04/07 04/10	GW4o	Sulphate	Photometric Analysis	Quarterly	24.4	23.58	mg/l		200	no
12/01 05/04 04/07 04/10	GW5	pH	pH meter (Electrode)	Quarterly	7.8	7.38	pH units	6.5 < pH < 9.5		no
12/01 05/04 04/07 04/10	GW5	Electrical Conductivity	Conductivity meter (Electrode)	Quarterly	533	525	µS/cm	800		no
12/01 05/04 04/07 04/10	GW5	DO	Dissolved oxygen meter (Electrode)	Quarterly	33	31	%		No abnormal change	no
12/01 05/04 04/07 04/10	GW5	Ammoniacal Nitrogen	Photometric Analysis	Quarterly	1.48	1.33	mg/l	2.2		no
12/01 05/04 04/07 04/10	GW5	Chloride	Photometric Analysis	Quarterly	21.2	21.08	mg/l	35		no
12/01 05/04 04/07 04/10	GW5	Sulphate	Photometric Analysis	Quarterly	0.7	0.55	mg/l		200	no
04/07/2017	GW4o	Nitrate	Photometric Analysis	Annually		<0.2***	mg/l	37.5		no
04/07/2017	GW4o	Ortho Phosphate	Photometric Analysis	Annually		<0.06***	mg/l	0.035		no
04/07/2017	GW5	Nitrate	Photometric Analysis	Annually		<0.2***	mg/l	37.5		no
04/07/2017	GW5	Ortho Phosphate	Photometric Analysis	Annually		<0.06***	mg/l	0.035		no

*** - All Results were less than the laboratory Limit of Dection

*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.

Groundwater monitoring template

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)

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

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

Surface water EQS | Groundwater regulations GTV's | Drinking water (private supply) standards | Drinking water (public supply) standards | Interim Guideline Values (IGV)

Groundwater/Soil monitoring template Lic No: W0017-04 Year 2017

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:	W0017-04	Year	2017

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

			Commentary
1	ELRA initial agreement status	Submitted and not agreed by EPA;	
2	ELRA review status	Review required and completed	
3	Amount of Financial Provision cover required as determined by the latest ELRA	2,949,600	
4	Financial Provision for ELRA status	Submitted and not agreed by EPA;	
5	Financial Provision for ELRA - amount of cover	2,949,600	
6	Financial Provision for ELRA - type	Other please specify	Limerick CoCo financial resources
7	Financial provision for ELRA expiry date	31/12/2044	
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 agreed by EPA	
11	Financial Provision for Closure - amount of cover	4,433,347	
12	Financial Provision for Closure - type	Other please specify	Limerick Co Co financial resources
13	Financial provision for Closure expiry date	31/12/2044	

Environmental Management Programme/Continuous Improvement Programme template

Lic No: W0017-04 Year 2017

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	An EMS is in operation for the site and is updated annually
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	The EMP also acts as the site manual and assists the site in achieving its targets and objectives.
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes	

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Energy Efficiency/Utility conservation	Completed in 2017	100%	Large aerator was removed from leachate treatment plant and DO probe was conncected to diffused air blower	Limerick County Council	Improved Environmental Management Practices
Energy Efficiency/Utility conservation	Completed in 2017	100%	Leachate carrier pipe was installed from civic amenity compactor skips to leachate riser.	Limerick County Council	Installation of infrastructure
Additional improvements	Completed in 2017	100%	CO monitor was upgraded and located in new location closer to the utilisation plant.	Limerick County Council	Increased compliance with licence conditions

Noise monitoring summary report	Lic No:	W0017-04	Year	2017

1	Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below	Yes
2	Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6? (Noise Guidance note NG4)	Yes
3	Does your site have a noise reduction plan	No
4	When was the noise reduction plan last updated?	N/A
5	Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?	No

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA_{eq}	LA_{90}	LA_{10}	LA_{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is site compliant with noise limits (day/evening/night)?
14/09/2017	15:00 -15:30		M1	43.8	39.1	45.8	56.4	No	N/A	traffic, site, birdsong	Yes
14/09/2017	15:30 -16:00		M1	43.3	39.5	45.4	71	No	N/A	traffic, site, birdsong	Yes
14/09/2017	23:00 - 23:15		M1	46.7	37.6	45.5	80	No	N/A	traffic, site, birdsong	Yes
14/09/2017	23:15 - 23:30		M1	44.3	38.1	44.6	66.8	No	N/A	traffic, site, birdsong	Yes
14/09/2017	10:00 - 10:30		M2	39.1	33.8	41.8	56.4	No	N/A	traffic and birdsong	Yes
14/09/2017	14:30 - 15:00		M2	40.3	34.6	43.4	48.8	No	N/A	traffic and birdsong	Yes
14/09/2017	23:26 - 23:51		M2	45	32.2	45.7	64.8	No	N/A	traffic and birdsong	Yes
14/09/2017 - 15/09/2017	23:51 - 00:06		M2	36.4	30.9	39.2	52	No	N/A	traffic and birdsong	Yes
14/09/2017	11:30 - 12:00		M3	41.4	32.6	43.5	64.7	No	N/A	traffic and birdsong	Yes
14/09/2017	14:00 - 14:30		M3	40.2	33.9	43.4	55.1	No	N/A	traffic and birdsong	Yes
15/09/2017	00:15 - 00:30		M3	45.6	34.3	40.6	80.3	No	N/A	traffic and birdsong	Yes
15/09/2017	00:30 - 00:45		M3	34.2	30.6	36.6	46.3	No	N/A	traffic and birdsong	Yes
14/09/2017	11:00 - 11:30		M4	44.3	29.8	48.3	65.5	No	N/A	traffic and birdsong	Yes
14/09/2017	13:30 - 14:00		M4	40.7	33.4	42.2	59.9	No	N/A	traffic and birdsong	Yes
15/09/2017	00:45 - 01:00		M4	37.7	33.1	40.5	48.6	No	N/A	traffic and birdsong	Yes
15/09/2017	01:00 - 01:15		M4	35.6	30.7	38.4	51	No	N/A	traffic and birdsong	Yes
14/09/2017	10:30 - 11:00		M5	38.1	31.4	41	60.9	No	N/A	traffic and birdsong	Yes
14/09/2017	13:00 - 13:30		M5	41.3	32.9	43.1	60.4	No	N/A	traffic and birdsong	Yes
15/09/2017	01:15 - 01:30		M5	26.1	29.9	38.9	51.1	No	N/A	traffic and birdsong	Yes
15/09/2017	01:30 - 01:45		M5	38.7	28.4	40	70.7	No	N/A	traffic and birdsong	Yes
14/09/2017	10:00 - 10:30		M7	39.1	33.8	41.8	57.7	No	N/A	site pump and birdsong	Yes
14/09/2017	12:30 - 13:00		M7	37.3	31.4	40	52.2	No	N/A	site pump and birdsong	Yes
15/09/2017	02:00 - 02:15		M7	45.4	39.5	46.9	65.1	No	N/A	site pump and birdsong	Yes

15/09/2017	02:15 - 02:30		M7	44.6	39.5	47	74.1	No	N/A	site pump and birdsong	Yes

*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?	N/A

** please explain the reason for not taking action/resolution of noise issues?
Any additional comments? (less than 200 words)

Resource Usage/Energy efficiency summary	Lic No:	W0017-04	Year	2017

		Additional information
1	When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below	2006
2	Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information	No
3	Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information	N/A

SEAI - Large Industry Energy Network (LIEN)

Table R1 Energy usage on site

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	235.5	357.478		51.8% +
Total Energy Generated (MWHrs)	7640	6760	11.52% -	
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	235.5	357.478		
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	1.2	0.95		20.83% -
Light Fuel Oil (m3)				
Natural gas (m3)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

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

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

Table R2 Water usage on site

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

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

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

Table R3 Waste Stream Summary

	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)	3,679.00				

Resource Usage/Energy efficiency summary Lic No: W0017-04 Year 2017

Table R4: Energy Audit finding recommendations

Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
2006	Install electricity generation plant to generate electricity from landfill gas	Installation of 1MW gas engine	energy audit		Jun-09	Landfill Manager	Jun-09	Complete
2006	Install DO probe to control aerators in LTP.	Link DO probe to aeration system	energy audit	20	Jun-07	Landfill Manager	Jun-07	Complete
2006	Consider installation of air diffusion system in LTP.	Install alternative aeration system	energy audit		2013	Landfill Manager	2017	Complete

Table R5: Power Generation: Where power is generated onsite (e.g. power generation facilities/food and drink industry)please complete the following information

	Unit ID	Unit ID	Unit ID	Unit ID	Station Total
Technology	Gas combustion engine				
Primary Fuel	Landfill gas				
Thermal Efficiency	42.60%				
Unit Date of Commission	2009				
Total Starts for year					
Total Running Time	8,112 hours				
Total Electricity Generated (GWH)	6.76				
House Load (GWH)	0.357				
KWH per Litre of Process Water					
KWH per Litre of Total Water used on Site					

Complaints and Incidents summary template Lic No: W0017-04 Year 2017

Complaints

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	Additional information

Table 1 Complaints summary

Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Resolution date	Further information
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		

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

Incidents

Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below	No	Additional information

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

Table 2 Incidents summary

Date of occurrence	Incident nature	Location of occurrence	Incident category*please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action<20 words	Preventative action <20 words	Resolution status	Resolution date	Likelihood of reoccurence
	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	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT

Total number of incidents current year	
Total number of incidents previous year	
% reduction/ increase	

WASTE SUMMARY	Lic No:	W0017-04	Year	2017
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED 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
1	Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ?; (waste generated within your boundaries is to be captured through PRTR reporting) If yes please enter details in table 1 below	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	No	

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)

Licenced annual tonnage limit for your site (total tonnes/annum)	EWC code European Waste Catalogue EWC codes	Source of waste accepted	Description of waste accepted **Please enter an accurate and detailed description - which applies to relevant EWC code** European Waste Catalogue EWC codes	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/ Increase over previous year +/ - %	Reason for reduction/ increase from previous reporting year	Packaging Content (%)- only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -
130,000	*20 03 01*	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	mixed municipal	273.02	344.37	26.13%	NA		D5- Specially engineered landfill	0	Waste removed off-site for disposal
50,000	*17 05 04*	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	soil & stone	864.31	1,972.08	-128.2%	NA		R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials	0	
50,000	*17 03 02*		Bituminous C&D	0.00	0.00	0.00%	Landfill closed and stopped accepting waste stream		D5- Specially engineered landfill	0	
5,000	*20 01 39*	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	plastic bottles	3.18	4.72	48.43%	NA		R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials	0	
5,000	*20 01 01*	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	tetrapaks	1.46	0.85	-41.78%	NA		R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials	0	
5,000	*20 01 01*	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	newspapers magazines	6.88	6.68	-2.91%	NA		R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis	0	

WASTE SUMMARY					Lic No:	W0017-04	Year	2017			
5,000	*20 01 02*	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Glass	2.28	4.24	86.00%	NA		R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials	0	
5,000	*20 01 05*	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	food cans	0.215	0.57	165.12%	NA		R4- Recycling/reclamation of metals and metal compounds	0	
5,000	*20 01 05*	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	drink cans	0.10	0.41	310.00%	NA		R4- Recycling/reclamation of metals and metal compounds	0	
5,000	*20 01 01*	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	cardboard	7.34	7.72	5.20%	NA		R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis	0	
5,000	*20 01 40*	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	mixed metals	4.68	8.90	90.17%	NA		R4- Recycling/reclamation of metals and metal compounds	0	
5,000	*20 01 11*	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	textiles	1.22	1.12	-8.21%	NA		R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials	0	
5,000	*20 03 07*	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	bulky waste	133.38	119.48	-10.42%	NA		R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0	Waste removed off-site for disposal
5,000	*20 01 36*	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	WEEE	0	12.28		NA		R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0	
5,000	*20 02 01*		Garden waste	23.26	12.68	-45.50%	NA		R4- Recycling/reclamation of metals and metal compounds	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	Yes
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	Yes
6	Does your facility have relevant nuisance controls in place?	Yes
7	Do you have an odour management system in place for your facility? If no why?	Yes
8	Do you maintain a sludge register on site?	No

WASTE SUMMARY	Lic No:	W0017-04	Year	2017

SECTION 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
Municipal Solid Waste (household & commercial)	N/A	0	0	Remaining built capacity

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area
										SELECT UNIT	SELECT UNIT	SELECT UNIT
Cells 1 to 16	Mar-90	Jun-14	1	Public	Non Hazardous	2014	No	No	No	157,684	136,844	20,800

WASTE SUMMARY Lic No: W0017-04 Year 2017

Table 4 Environmental monitoring-landfill only

Landfill Manual-Monitoring Standards

Was meterological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

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

Table 5 Capping-Landfill only

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard m2 ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					
0	0	167,000	0	0	as per licence condition 10.3.1	

*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?	Yes
10	Is leachate released to surface water? If yes please complete leachate mass load information below	Yes

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments
12,216.42	27.97	N/A	1.61	N/A	yes	extended aeration	

Please ensure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTR returns

Table 7 Landfill Gas-Landfill only

Gas Captured&Treated by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
1,565,925 methane	6,763,915	Both	No	

Environmental Protection Agency

Guidance to completing the PRTR workbook

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2017

1. FACILITY IDENTIFICATION

Parent Company Name	Limerick City & County Council
Facility Name	Gortadroma Landfill Site
PRTR Identification Number	W0017
Licence Number	W0017-04

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Gortadroma
Address 2	Ballyhahill
Address 3	
Address 4	
	Limerick
Country	Ireland
Coordinates of Location	-6.45823 53.8084
River Basin District	IEGBNISH
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	JOHN O CARROLL
AER Returns Contact Email Address	john.ocarroll@limerick.ie
AER Returns Contact Position	LANDFILL MANAGER
AER Returns Contact Telephone Number	069 82355
AER Returns Contact Mobile Phone Number	08707565449
AER Returns Contact Fax Number	069 82350
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	2210
Number of Employees	2
User Feedback/Comments	Release to water- 50% +/- varation for cadmium, mercury, nickel, EDC, toluene, vinyl chloride, iron and manganese(all individual results were less than the laboratorty limit of detection). 50% +/- varation also recorded for boron,zinc, calcium, magnesium, ortho-phosphate and potassium(all individual results were less than Si 272 of 2009 Surface water standards and/or EPA water quality standars. 50% +/- varation in suspended solids (all individual results were within licence limits. Licence requires either total P or ortho-phosphate to measured on surface water discharges, both were measured in 2016, only ortho-phosphate was measured in 2017.
Web Address	

2. PRTR CLASS ACTIVITIES

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

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

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

4. WASTE IMPORTED/ACCEPTED ONTO SITE

Guidance on waste imported/accepted onto site

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

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

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used		Landfill Gas Engine			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
01	Methane (CH4)	C	OTH	Total estimated methane generated minus(methane flared + utilised)	1464576.0	1464576.0	0.0	0.0
03	Carbon dioxide (CO2)	C	OTH		10176916.0	10176916.0	0.0	0.0
02	Carbon monoxide (CO)	M	ALT	EN15058 2006	3806.19	3806.19	0.0	0.0
08	Nitrogen oxides (NOx/NO2)	M	ALT	EN14792 2006	1491.96	1491.96	0.0	0.0
11	Sulphur oxides (SOx/SO2)	M	CRM	TGN21	3513.73	3513.73	0.0	0.0
86	**Particulate matter (PM10)**	M	ALT	EN13284-1:2002	4.196	4.196	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					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			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
					0.0	0.0	0.0	0.0

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

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

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	0.0

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

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill: Gortadroma Landfill Site

Please enter summary data on the quantities of methane flared and / or utilised

	T (Total) kg/Year	M/C/E	Method Used: Method Code	Method Used: Designation or Description	Facility Total Capacity m3 per hour	
Total estimated methane generation (as per site model)	3030501.0	E	OTH	Landgem	N/A	
Methane flared	114364.0	M	OTH	Landfill Gas Survey	1500.0	(Total Flaring Capacity)
Methane utilised in engine/s	1451561.0	M	OTH	Landfill Gas Survey	650.0	(Total Utilising Capacity)
Net methane emission (as reported in Section A above)	1464576.0	C	OTH	Total estimated methane generated minus(methane flared + utilised)	N/A	

4.2 RELEASES TO WATERS

Link to previous years emissions data

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

RELEASES TO WATERS					Please enter all quantities in this section in KGs				
POLLUTANT					QUANTITY				
			Method Used		SW4- Surface Water Discharge	Treated Leachate Discharge			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	Emission Point 2	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
18	Cadmium and compounds (as Cd)	M	CRM	UKAS	216.4	0.0	216.4	0.0	0.0
19	Chromium and compounds (as Cr)	M	CRM	UKAS	0.649	0.0	0.649	0.0	0.0
20	Copper and compounds (as Cu)	M	CRM	UKAS	3.029	0.0	3.029	0.0	0.0
21	Mercury and compounds (as Hg)	M	CRM	UKAS	0.432	0.0	0.432	0.0	0.0
22	Nickel and compounds (as Ni)	M	CRM	UKAS	1.298	0.0	1.298	0.0	0.0
23	Lead and compounds (as Pb)	M	CRM	UKAS	2.164	0.0	2.164	0.0	0.0
24	Zinc and compounds (as Zn)	M	CRM	UKAS	2597.0	0.0	2597.0	0.0	0.0
61	Anthracene	M	CRM	UKAS	0.216	0.0	0.216	0.0	0.0
62	Benzene	M	CRM	UKAS	0.216	0.0	0.216	0.0	0.0
34	1,2-dichloroethane (EDC)	M	CRM	UKAS	0.865	0.0	0.865	0.0	0.0
91	Benzo(g,h,i)perylene	M	CRM	UKAS	0.216	0.0	0.216	0.0	0.0
35	Dichloromethane (DCM)	M	CRM	UKAS	2.164	0.0	2.164	0.0	0.0
88	Fluoranthene	M	CRM	UKAS	0.216	0.0	0.216	0.0	0.0
65	Ethyl benzene	M	CRM	UKAS	0.432	0.0	0.432	0.0	0.0
43	Hexachlorobutadiene (HCBD)	M	CRM	UKAS	0.432	0.0	0.432	0.0	0.0
42	Hexachlorobenzene (HCB)	M	CRM	UKAS	0.432	0.0	0.432	0.0	0.0
68	Naphthalene	M	CRM	UKAS	0.432	0.0	0.432	0.0	0.0
48	Pentachlorobenzene	M	CRM	UKAS	0.432	0.0	0.432	0.0	0.0
73	Toluene	M	CRM	UKAS	2.164	0.0	2.164	0.0	0.0
12	Total nitrogen	M	CRM	UKAS	8959.16	0.0	8959.16	0.0	0.0
76	Total organic carbon (TOC) (as total C or COD/3)	M	CRM	UKAS	5193.72	0.0	5193.72	0.0	0.0
13	Total phosphorus	M	CRM	UKAS	0.0	2.704	2.704	0.0	0.0
60	Vinyl chloride	M	CRM	UKAS	0.043	0.0	0.043	0.0	0.0
79	Chlorides (as Cl)	M	CRM	UKAS	12724.61	0.0	12724.61	0.0	0.0
49	Pentachlorophenol (PCP)	M	CRM	UKAS	0.432	0.0	0.432	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 WATERS					Please enter all quantities in this section in KGs			
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/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO WATERS					Please enter all quantities in this section in KGs				
POLLUTANT							QUANTITY		
			Method Used		SW4- Surface Water Discharge	Treated Leachate Discharge			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	Emission Point 2	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
238	Ammonia (as N)	M	CRM	UKAS	108.63	0.0	110.386	1.756	0.0
306	COD	M	CRM	UKAS	15148.0	0.0	15148.0	0.0	0.0
374	Boron	M	CRM	UKAS	28565.0	0.0	28565.0	0.0	0.0
305	Calcium	M	CRM	UKAS	45.27	0.0	45.27	0.0	0.0
357	Iron	M	CRM	UKAS	8.66	0.0	8.66	0.0	0.0
320	Magnesium	M	CRM	UKAS	3.94	0.0	3.94	0.0	0.0
321	Manganese (as Mn)	M	CRM	UKAS	0.865	0.0	0.865	0.0	0.0
372	Nitrite (as N)	M	CRM	UKAS	8959.16	0.0	8959.16	0.0	0.0
387	Ortho-phosphate (as P)	M	CRM	UKAS	25.97	0.0	25.97	0.0	0.0
338	Potassium	M	CRM	UKAS	3289.3	0.0	3289.3	0.0	0.0
341	Sodium	M	CRM	UKAS	9262.0	0.0	9262.0	0.0	0.0
343	Sulphate	M	CRM	UKAS	25146.0	0.0	25146.0	0.0	0.0
240	Suspended Solids	M	CRM	UKAS	3419.2	158.36	3577.56	0.0	0.0
303	BOD	M	CRM	UKAS	865.62	28.69	894.31	0.0	0.0

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

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			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
					0.0	0.0	0.0	0.0

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

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					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	0.0

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

4.4 RELEASES TO LAND

Link to previous years emissions data

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND				
POLLUTANT		METHOD		
			Method Used	
No. Annex II	Name	M/C/E	Method Code	Designation or Description

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

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO LAND				
POLLUTANT		METHOD		
			Method Used	
Pollutant No.	Name	M/C/E	Method Code	Designation or Description

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

Please enter all quantities in this section in KGs		
	QUANTITY	
Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
0.0	0.0	0.0

Please enter all quantities in this section in KGs		
	QUANTITY	
Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
0.0	0.0	0.0

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	15 01 01	No	7.34	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	CLEAN IRELAND RECYCLING,W0253-01	Cree ,Kilrush ,County Clare.,.,Ireland		
Within the Country	15 01 04	No	0.215	metallic packaging	R4	M	Weighed	Offsite in Ireland	MR. BINMAN,W0061-03	LUDDENMORE,GRANGE,KILMALLOCK,COUNTY LIMERICK,Ireland		
Within the Country	**15 01 04**	**No**	0.1	metallic packaging	R4	M	Weighed	Offsite in Ireland	MR. BINMAN,W0061-03	LUDDENMORE,GRANGE,KILMALLOCK,COUNTY LIMERICK,Ireland		
Within the Country	15 01 05	No	1.46	composite packaging	R5	M	Weighed	Offsite in Ireland	CLEAN IRELAND RECYCLING,W0253-01	Cree ,Kilrush ,County Clare.,.,Ireland		
Within the Country	19 07 03	No	0.0	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	Castletroy Waste Water Treatment Plant,D0019-01	Castletroy ,Limerick,.,.,Ireland		
Within the Country	19 07 03	No	3678.68	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Onsite of generati	Newcastle West Waste Water Treatment Plant,DO108-01	Newcastle West ,County Limerick,.,.,Ireland		
Within the Country	20 01 01	No	6.88	Newspapers & Magazines	R3	M	Weighed	Offsite in Ireland	CLEAN IRELAND RECYCLING,W0253-01	Cree ,Kilrush ,County Clare.,.,Ireland		
Within the Country	20 01 02	No	2.28	glass	R5	M	Weighed	Offsite in Ireland	MR. BINMAN,W0061-03	LUDDENMORE,GRANGE,KILMALLOCK,COUNTY LIMERICK,Ireland		
To Other Countries	20 01 11	No	1.22	textiles	R5	M	Weighed	Abroad	COOKSTOWN TEXTILE RECYCLERS,WMEX 01/11	COOKSTOWN TEXTILE RECYCLERS,36 MAGHERALANE ROAD,RANDALSTOWN,COUNTY ANTRIM,Ireland		
Within the Country	20 01 35	Yes	0.0	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 23 containing hazardous components	R4	M	Weighed	Offsite in Ireland	KMK METAL RECYCLERS,W0113-04	KMK METAL RECYCLERS,CAPPINCUR INDUSTRIAL EST.,TULLAMORE,COUNTY OFFALY,Ireland	KMK METAL RECYCLERS,W0113-04	KMK METAL RECYCLERS,CAPPINCUR INDUSTRIAL EST.,TULLAMORE,COUNTY OFFALY,Ireland
Within the Country	20 01 36	No	0.0	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK METAL RECYCLERS,W0113-04	KMK METAL RECYCLERS,CAPPINCUR INDUSTRIAL EST.,TULLAMORE,COUNTY OFFALY,Ireland		
Within the Country	20 01 39	No	3.18	plastics	R5	M	Weighed	Offsite in Ireland	CLEAN IRELAND RECYCLING,W0253-01	Cree ,Kilrush ,County Clare.,.,Ireland		
Within the Country	20 01 40	No	4.68	Mixed Scrap Metal	R4	M	Weighed	Offsite in Ireland	UNITED METALS,NWCPO-10-05657-01	Eastway Recycling Park,Ballysimon,Limerick,.,Ireland		
Within the Country	20 03 01	No	273.02	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	CLEAN IRELAND RECYCLING,W0253-01	Cree ,Kilrush ,County Clare.,.,Ireland		
Within the Country	20 03 07	No	133.38	bulky waste	D1	M	Weighed	Offsite in Ireland	CLEAN IRELAND RECYCLING,W0253-01	Cree ,Kilrush ,County Clare.,.,Ireland		

* Select a row by double-clicking the Description of Waste then click the delete button

Link to previous years waste data
Link to previous years waste summary data & percentage change
Link to Waste Guidance

Please enter details below then click the OK button

Name of Recoverer / Disposer / Next Destination Facility	KMK METAL RECYCLERS
Licence / Permit No. of Recoverer / Disposer / Next Destination Facility	W0113-04
Address of Recoverer / Disposer / Next Destination Facility	
Address 1 / Street name	KMK METAL RECYCLERS
Address 2 / Building number	CAPPINCUR INDUSTRIAL EST.
Address 3 / City name	TULLAMORE
Address 4 / Postcode	COUNTY OFFALY
Country	Ireland

Please enter a full stop "." in an address field if there is no data to be entered

Alternatively, please select from previously entered details by clicking on the row below then click OK

Name and License / Permit No.	Address of Recoverer / Disposer / Broker
CLEAN IRELAND RECYCLING,W	Cree ,Kilrush ,County Clare.,.,Ireland
MR. BINMAN,W0061-03	LUDDENMORE,GRANGE,KILMALLOCK,COUNTY LIMERICK,Ireland
Castletroy Waste Water Treatment	Castletroy ,Limerick,.,.,Ireland
Newcastle West Waste Water Tre	Newcastle West ,County Limerick,.,.,Ireland
COOKSTOWN TEXTILE RECYCL	COOKSTOWN TEXTILE RECYCLERS,36 MAGHERALANE ROAD,RANDALSTOWN,COUNTY ANTRIM,Ireland
KMK METAL RECYCLERS,W011	KMK METAL RECYCLERS,CAPPINCUR INDUSTRIAL EST.,TULLAMORE,COUNTY OFFALY,Ireland
UNITED METALS,NWCPO-10-05	Eastway Recycling Park,Ballysimon,Limerick,.,Ireland

Previous years data is correct as at 31/01/2018 07:40

Release_To	Year	Pollutant_Number	Pollutant_Description	M_C_E
Air	2016	1	Methane (CH4)	C
Air	2016	2	Carbon monoxide (CO)	M
Air	2016	3	Carbon dioxide (CO2)	C
Air	2016	8	Nitrogen oxides (NOx/NO2)	M
Air	2016	11	Sulphur oxides (SOx/SO2)	M
Air	2016	86	Particulate matter (PM10)	M
Air	2016	900	Total estimated methane generation	C
Air	2016	901	Methane flared	M
Air	2016	902	Methane utilised in engine/s	M
Air	2016	903	Net methane emission	C
Water	2016	13	Total phosphorus	M
Water	2016	18	Cadmium and compounds (as Cd)	M
Water	2016	19	Chromium and compounds (as Cr)	M
Water	2016	20	Copper and compounds (as Cu)	M
Water	2016	21	Mercury and compounds (as Hg)	M
Water	2016	22	Nickel and compounds (as Ni)	M
Water	2016	23	Lead and compounds (as Pb)	M
Water	2016	238	Ammonia (as N)	M
Water	2016	24	Zinc and compounds (as Zn)	M
Water	2016	240	Suspended Solids	M
Water	2016	303	BOD	M
Water	2016	305	Calcium	M
Water	2016	306	COD	M
Water	2016	320	Magnesium	M
Water	2016	321	Manganese (as Mn)	M
Water	2016	327	Nitrate (as N)	M
Water	2016	338	Potassium	M
Water	2016	34	1,2-dichloroethane (EDC)	M
Water	2016	341	Sodium	M
Water	2016	343	Sulphate	M
Water	2016	357	Iron	M
Water	2016	374	Boron	M
Water	2016	379	Total Oxidised Nitrogen (TON)	M
Water	2016	387	Ortho-phosphate (as P)	M
Water	2016	42	Hexachlorobenzene (HCB)	M
Water	2016	43	Hexachlorobutadiene (HCBD)	M
Water	2016	49	Pentachlorophenol (PCP)	M
Water	2016	60	Vinyl chloride	M
Water	2016	61	Anthracene	M
Water	2016	62	Benzene	M
Water	2016	65	Ethyl benzene	M
Water	2016	68	Naphthalene	M
Water	2016	73	Toluene	M
Water	2016	76	Total organic carbon (TOC) (as total C or COD/3)	M
Water	2016	79	Chlorides (as Cl)	M
Water	2016	88	Fluoranthene	M
Water	2016	91	Benzo(g,h,i)perylene	M

Method_Code	Method_Description	Total
OTH	Total estimated methane generated minus(methane flared + utilised)	1189279
OTH		6150.3
OTH		9850149
OTH		2028
OTH		2400
OTH		3.74
OTH	Landgem	3154179
OTH	Lanfill Gas Survey	297166
OTH	Landfill Gas Survey	1667734
OTH	Total estimated methane generated minus(methane flared + utilised)	1189279
CRM	UKAS	53.53
CRM	UKAS	0.25
CRM	UKAS	0.84
CRM	UKAS	3.8
CRM	UKAS	0.04
CRM	UKAS	3.8
CRM	UKAS	2.53
CRM	UKAS	189.77
CRM	UKAS	7.61
OTH	Standard methods for the measurement of water & waste waters	2262.56
CRM	UKAS	625.27
CRM	UKAS	33856.88
OTH	Standard methods for the measurement of water & waste waters	16505.22
CRM	UKAS	2623.9
CRM	UKAS	87.6
CRM	UKAS	1286.56
CRM	UKAS	1557.41
CRM	UKAS	0.42
CRM	UKAS	7194.58
CRM	UKAS	11849.9
CRM	UKAS	486.69
CRM	UKAS	97.33
CRM	UKAS	338.56
CRM	UKAS	253.92
CRM	UKAS	0.42
CRM	UKAS	0.42
CRM	UKAS	0.42
CRM	UKAS	0.21
CRM	UKAS	0.42
CRM	UKAS	0.42
CRM	UKAS	0.42
CRM	UKAS	0.84
CRM	UKAS	0.42
CRM	UKAS	5501.74
OTH	Standard methods for the measurement of water & waste waters	10372.9
CRM	UKAS	0.42
CRM	UKAS	0.42

Previous years data is correct as at 31/01/2018 07:40

Year	Destination	EWC	Hazardous	Total	Description	TreatmentOperation
2016	Within the Country	15 01 01	N	7.72	paper and cardboard packaging	R3
2016	Within the Country	15 01 04	N	0.57	metallic packaging	R4
2016	Within the Country	15 01 04	N	0.41	metallic packaging	R4
2016	Within the Country	15 01 05	N	0.85	composite packaging	R5
2016	Within the Country	19 07 03	N	5210.65	landfill leachate other than those mentioned in 19 07 02	D8
2016	Within the Country	19 07 03	N	9050.2	landfill leachate other than those mentioned in 19 07 02	D8
2016	Within the Country	20 01 01	N	6.68	Newspapers & Magazines	R3
2016	Within the Country	20 01 02	N	4.24	glass	R5
2016	To Other Countries	20 01 11	N	1.12	textiles	R5
2016	Within the Country	20 01 35	Y	3.8	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01	R4
2016	Within the Country	20 01 36	N	8.48	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 2	R4
2016	Within the Country	20 01 39	N	4.72	plastics	R5
2016	Within the Country	20 01 40	N	8.9	Mixed Scrap Metal	R4
2016	Within the Country	20 03 01	N	344.37	mixed municipal waste	D1
2016	Within the Country	20 03 07	N	119.48	bulky waste	D1

M_C_E	MethodCode	TreatmentLocation	Name_Licence_Permit_No
M	Weighed	Offsite in Ireland	CLEAN IRELAND RECYCLING,W0253-01
M	Weighed	Offsite in Ireland	MR. BINMAN,W0061-03
M	Weighed	Offsite in Ireland	MR. BINMAN,W0061-03
M	Weighed	Offsite in Ireland	CLEAN IRELAND RECYCLING,W0253-01
M	Weighed	Offsite in Ireland	Castletroy Waste Water Treatment Plant,D0019-01
M	Weighed	Onsite of generation	Newcastle West Waste Water Treatment Plant,DO108-01
M	Weighed	Offsite in Ireland	CLEAN IRELAND RECYCLING,W0253-01
M	Weighed	Offsite in Ireland	MR. BINMAN,W0061-03
M	Weighed	Abroad	COOKSTOWN TEXTILE RECYCLERS,WMEX 01/11
M	Weighed	Offsite in Ireland	KMK METAL RECYCLERS,W0113-04
M	Weighed	Offsite in Ireland	KMK METAL RECYCLERS,W0113-04
M	Weighed	Offsite in Ireland	CLEAN IRELAND RECYCLING,W0253-01
M	Weighed	Offsite in Ireland	UNITED METALS,NWCPO-10-05657-01
M	Weighed	Offsite in Ireland	CLEAN IRELAND RECYCLING,W0253-01
M	Weighed	Offsite in Ireland	CLEAN IRELAND RECYCLING,W0253-01

Address	Final_Recoverer_Disposer	Actual_Address_Final_Destination
Cree ,Kilrush ,County Clare.,.,Ireland		
LUDDENMORE,GRANGE,KILMALLOCK,COUNTY LIMERICK,Ireland		
LUDDENMORE,GRANGE,KILMALLOCK,COUNTY LIMERICK,Ireland		
Cree ,Kilrush ,County Clare.,.,Ireland		
Castletroy ,Limerick,.,.,Ireland		
Newcastle West ,County Limerick,.,.,Ireland		
Cree ,Kilrush ,County Clare.,.,Ireland		
LUDDENMORE,GRANGE,KILMALLOCK,COUNTY LIMERICK,Ireland		
COOKSTOWN TEXTILE RECYCLERS,36 MAGHERALANE ROAD,RANDALSTOWN,COUNTY ANTRIM,Ireland		
KMK METAL RECYCLERS,CAPPINCUR INDUSTRIAL EST.,TULLAMORE,COUNTY OFFALY,Ireland		
KMK METAL RECYCLERS,CAPPINCUR INDUSTRIAL EST.,TULLAMORE,COUNTY OFFALY,Ireland		
Cree ,Kilrush ,County Clare.,.,Ireland		
Eastway Recycling Park,Ballysimon,Limerick,.,Ireland		
Cree ,Kilrush ,County Clare.,.,Ireland		
Cree ,Kilrush ,County Clare.,.,Ireland		

Previous years data is correct as at 31/01/2018 07:40

Type of Waste	Previous Year Total	Current Year Total	Percentage Change
Hazardous Waste inside the country for disposal	0	0	0
Hazardous Waste inside the country for recovery	3.8	0	-100
Hazardous Waste outside the country for disposal	0	0	0
Hazardous Waste outside the country for recovery	0	0	0
Non-Hazardous Waste for disposal	14724.7	4085.08	-72.256956
Non-Hazardous Waste for recovery	43.69	27.355	-37.3884184