

Facility Information Summary	
AER Reporting Year	2012
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.	A total of 129,390 tonnes of mixed municipal waste was accepted into the site for disposal in 2012 which reflects no change in intake from the previous year. The civic amenity site accepted in 88.92 tonnes of waste for recovery which is a decrease of 24.5% on the previous year. The landfill site accepted in 12,212 tonnes of waste that was recovered onsite as landfill cover and road making. There was a new area of 12,000 sq.m. lined for waste disposal south of cell 16 in 2012. All monitoring carried out in 2012 was in compliance with the licence limits with the exception of three weekly SW discharge results for suspended solids and one weekly treated leachate discharge result for total P.

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	21/3/2013
Signature	Date
Group/Facility manager	
(or nominated, suitably qualified and experienced deputy)	

AIR-summary template	Lic No: W0017-04	Year: 2012
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Answer all questions and complete all tables where relevant

<p>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</p>	<p>Additional information</p> <table border="1" style="width: 100%; height: 60px;"> <tr> <td style="width: 10%; text-align: center; vertical-align: middle;">Yes</td> <td></td> </tr> </table>	Yes	
Yes			

Periodic/Non-Continuous Monitoring

<p>2 Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below</p>	<table border="1" style="width: 100%; height: 30px;"> <tr> <td style="width: 10%; text-align: center;">No</td> <td></td> </tr> </table>	No	
No			
<p>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</p>	<table border="1" style="width: 100%; height: 30px;"> <tr> <td style="width: 10%; text-align: center;">Yes</td> <td></td> </tr> </table>	Yes	
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 thereof	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	Carbon monoxide (CO)	Biannual	1400	100 % of values < ELV	1155.5	mg/Nm3	yes	OTH	34479	NA
Utilisation Plant	Nitrogen oxides (NOx/NO2)	Biannual	500	100 % of values < ELV	488.8	mg/Nm3	yes	OTH	14209	NA
Utilisation Plant	volumetric flow	Biannual	3000		3678	Nm3/hour	no (if no please enter details in comments box)	OTH		NA
	SELECT			SELECT		SELECT	SELECT	SELECT		

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

AIR-summary template		Lic No:	W0017-04	Year	2012
Continuous Monitoring					

4	Does your site carry out continuous air emissions monitoring? If yes please review your continuous monitoring data and report the required fields below in Table 3 and compare it to its relevant Emission Limit Value (ELV)	Yes	
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table 3 below	Yes	
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 4 below	No	

Table A2: Summary of average emissions -continuous monitoring

Emission reference no:	Parameter/ Substance	ELV in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
Utilisation Plant	Carbon monoxide (CO)	1400	15 mins	Daily average < ELV	mg/Nm3	1155	1193	1320	0	
	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	2012			
Solvent use and management on site								
8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5					SELECT			
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	Total VOC emissions as %of solvent	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	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: W0017-04 Year: 2012

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

Location reference	Location relative to site activities	PRTR Parameter	Licensed Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	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)

3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below	Yes	Additional information
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	Yes	External/Internal Lab Quality checklist Assessment of results checklist

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

Emission reference no:	Emission released to	Parameter/ Substance Note 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof ^{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	Conductivity	discrete	weekly	Weekly	1000	All results < 1.2 x ELV	389	µS/cm @20oC	yes	STRUMENTAL METHO	Manufacturer method		NA	
SW4	Water	Ammonia (as N)	discrete	weekly	Weekly	0.78	All results < 1.2 x ELV	0.32	mg/L	yes	colourimetry	UKAS		204	
SW4	Water	Suspended Solids	discrete	weekly	Weekly	35	All results < 1.2 x ELV	15.2	mg/L	yes	Gravimetric analysis	Standard methods	2540D	9,765	3 results were over the limit in 2012
SW4	Water	pH	discrete	weekly	Weekly	6 to 9	All results < 1.2 x ELV	6.6	pH units	yes	pH Meter (Electrode)	Manufacturer method		NA	
SW4	Water	Chlorides (as Cl)	discrete	weekly	Weekly	250	NA	25.4	mg/L	NA	Titration	Standard methods	4500D	16275	
Treated leahate	Water	pH	composite	weekly	Weekly	6 to 9	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	7.1	pH units	yes	pH Meter (Electrode)	Manufacturer method		NA	
Treated leahate	Water	BOD	composite	weekly	Weekly	25	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	3.8	mg/L	yes	ed Oxygen Meter (Ele	UKAS		88	
Treated leahate	Water	Suspended Solids	composite	weekly	Weekly	35	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	10.6	mg/L	yes	Gravimetric analysis	Standard methods	2540D	247	
Treated leahate	Water	Total phosphorus	composite	weekly	Weekly	2	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.81	mg/L	yes	vely Coupled Plasma -	UKAS		19	1 result was over the limit in 2012
Treated leahate	Water	Ammonia (as N)	composite	weekly	Weekly	3	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1.03	mg/L	yes	colourimetry	UKAS		24	

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 2012

Continuous monitoring

5 Does your site carry out continuous emissions to water/sewer monitoring? Yes No Additional Information

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 Yes

7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site? Yes No

8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below No Yes

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			0	0	Annual average = 6.7
SW4	Water	Conductivity	1000	30 minutes	No flow value shall exceed the specific limit.	µS/cm @20oC			0	0	Annual average = 376

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

Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund testing

dropdown menu click to see options

Additional information

Are you required by your licence to undertake integrity testing on bunds and containment structures? if yes please fill out table B1 below 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

Yes	No new bunds and no test failures in 2012
3 years	
Yes	
1	There are 2 leachate holding lagoons, 4 lagoons in treatment plant, 1 storm water settling tank and 1 fuel bund
All 8	
0	
SELECT	
NA	
0	
0	
Yes	
Yes	

- 1 the table below
 - 2 Please provide integrity testing frequency period
 - 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)
 - 4 How many bunds are on site?
 - 5 How many of these bunds have been tested within the required test schedule?
 - 6 How many mobile bunds are on site?
 - 7 Are the mobile bunds included in the bund test schedule?
 - 8 How many of these mobile bunds have been tested within the required test schedule?
 - 9 How many sumps on site are included in the integrity test schedule?
 - 10 How many of these sumps are integrity tested within the test schedule?
- Please list any sump integrity failures in table B1**
- 11 Do all sumps and chambers have high level liquid alarms?
 - 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?

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)
	SELECT					SELECT			SELECT	SELECT		SELECT		
	SELECT					SELECT			SELECT	SELECT		SELECT		

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

Has integrity testing been carried out in accordance with licence requirements and are all structures tested in

Yes	
No	
SELECT	Not tested

- 14 line with BS8007/EPA Guidance? [bunding and storage guidelines](#)
- 15 Are channels/transfer systems to remote containment systems tested?
- 16 Are channels/transfer systems compliant in both integrity and available volume?

Pipeline/underground structure testing

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

No	
SELECT	

- 1 Please provide integrity testing frequency period

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

2012

	Comments
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	yes
2 Are you required to carry out soil monitoring as part of your licence requirements?	no
3 Do you extract groundwater for use on site? If yes please specify use in comment section	yes Collins well used for onsite utilities
4 Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12	no
5 Is the contamination related to operations at the facility (either current and/or historic)	SELECT
6 Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	SELECT
7 Please specify the proposed time frame for the remediation strategy	SELECT
8 Is there a licence condition to carry out/update ELRA for the site?	SELECT
9 Has any type of risk assessment been carried out for the site?	SELECT
10 Has a Conceptual Site Model been developed for the site?	SELECT
11 Have potential receptors been identified on and off site?	SELECT
12 Is there evidence that contamination is migrating offsite?	SELECT

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
20/02, 17/04, 23/07, 23/10	Collins Well	conductivity	meter	quarterly	753	721	µS/cm @20oC	800	SW EQS		
20/02, 17/04, 23/07, 23/10	Collins Well	ammonia	colorimetry	quarterly	0.36	0.3	mg/l	0.065	SW EQS		
20/02, 17/04, 23/07, 23/10	Collins Well	chloride	titration	quarterly	26	24	mg/l	187.5	SW EQS		
20/02, 17/04, 23/07, 23/10	Collins Well	sulphate	turbidimetry	quarterly	13.2	12.3	mg/l	187.5	SW EQS		
23/7,	Collins Well	nitrate	colorimetry	annually	< 0.4	< 0.4	mg/l	37.5	SW EQS		
23/7,	Collins Well	Total P	ICP	annually	<0.12	< 0.12	mg/l	NA	SW EQS		

.+ where average indicates arithmetic mean

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

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
20/02, 17/04, 23/07, 23/10	GW40	conductivity	meter	quarterly	601	555	µS/cm @20oC	800	SW EQS		
20/02, 17/04, 23/07, 23/10	GW40	ammonia	colorimetry	quarterly	< 0.27	0.27	mg/l	0.065	SW EQS		

Groundwater/Soil monitoring template					Lic No:	W0017-04	Year	2012	
20/02, 17/04, 23/07, 23/10	GW4O	chloride	titration	quarterly	22.2	20.3	mg/l	187.5	SW EQS
20/02, 17/04, 23/07, 23/10	GW4O	sulphate	turbidimetry	quarterly	22.5	21.2	mg/l	187.5	SW EQS
23/7,	GW4O	nitrate	colorimetry	annually	< 0.4	< 0.4	mg/l	37.5	SW EQS
23/7,	GW4O	Total P	ICP	annually	0.13	0.13	mg/l	NA	SW EQS
20/02, 17/04, 23/07, 23/10	GW5	conductivity	meter	quarterly	578	500	µS/cm @20oC	800	SW EQS
20/02, 17/04, 23/07, 23/10	GW5	ammonia	colorimetry	quarterly	0.83	0.61	mg/l	0.065	SW EQS
20/02, 17/04, 23/07, 23/10	GW5	chloride	titration	quarterly	21.7	21.1	mg/l	187.5	SW EQS
20/02, 17/04, 23/07, 23/10	GW5	sulphate	turbidimetry	quarterly	3.5	2.1	mg/l	187.5	SW EQS
23/7,	GW5	nitrate	colorimetry	annually	< 0.4	< 0.4	mg/l	37.5	SW EQS
23/7,	GW5	Total P	ICP	annually	< 0.12	< 0.12	mg/l	NA	SW EQS

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

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

[Surface water EQS](#) [Groundwater regulations](#) [Drinking water \(private supply\) standards](#) [Drinking water \(public supply\) standards](#)

Groundwater/Soil monitoring template

Lic No:

W0017-04

Year

2012

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

[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	3,874,000	Includes closure costs
4	Financial Provision for ELRA status	Submitted and not agreed by EPA;	
5	Financial Provision for ELRA - amount of cover	3,874,000	Includes closure costs
6	Financial Provision for ELRA - type	Other please specify	Limerick Co Co financial resources
7	Financial provision for ELRA expiry date	31/12/2045	
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	3,802,000	
12	Financial Provision for Closure - type	Other please specify	Limerick Co Co financial resources
13	Financial provision for Closure expiry date	31/12/2015	

Environmental Management Programme/Continuous Improvement Programme template	Lic No: W0017-04	Year 2012
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Highlighted cells contain dropdown menu click to view	Additional Information	
1 Do you maintain an Environmental Management 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. It is updated annually.
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
Waste reduction/Raw material usage efficiency	Completed in Q1 2012	90	100% complete. Contractor completed capping of cell 16	Section Head	Improved Environmental Management Practices
Reduction of emissions to Air	Completed in Q2 2012	50	50% of area has been lined to required specification. Remainder to be lined in 2013.	Section Head	Reduced emissions
Reduction of emissions to Air	Not specified	90	100% complete. Horizontal gas collection gas pipework installed in east side of cell 16.	Section Head	Reduced emissions
Additional improvements	Completed in Q1 2012	90	100% complete. Scada control extended to extension area.	Section Head	Installation of infrastructure

Noise monitoring summary report Lic No: W0017-04 Year 2012

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?

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)?
30/5/2012	08.00-19.00	M1		46	37	46	76	No	SELECT	traffic, birdsong	Yes
30/5/2012	08.00-19.00		M2	45	36	45	72	No		traffic, site, birdsong	Yes
30/5/2012	08.00-19.00		M3	45	26	43	72	No		traffic, site, birdsong	Yes
30/5/2012	08.00-19.00		M4	51	33	48	80	Yes	Yes	traffic, site, birdsong	Yes
30/5/2012	08.00-19.00		M5	52	33	31	78	No		traffic, site, birdsong	Yes
30/5/2012	08.00-19.00		M6	52	29	45	81	No		traffic, site, birdsong	Yes
30/5/2012	08.00-19.00		M7	44	30	38	78	Yes	Yes	Agricultural, site, birdsong	Yes
30/5/2012	08.00-19.00		M9	57	41	58	89	No		traffic, site, birdsong	Yes
30/5/2012	08.00-19.00	M10		44	32	40	64	Yes	Yes	airplane, site, birdsong	Yes
30/5/2012	08.00-19.00	M11		46	39	49	66	No		traffic, site, birdsong	Yes
31/5/2012	23.00-05.30	M1		42	40	43	60	No		Gas flare, dog barking	Yes
31/5/2012	23.00-05.30		M2	27	22	26	60	No		Gas flare	Yes
31/5/2012	23.00-05.30		M3	33	27	32	65	No		Gas flare, cattle	Yes
31/5/2012	23.00-05.30		M4	32	26	33	60	No		Gas flare, cattle	Yes
31/5/2012	23.00-05.30		M5	38	30	36	67	Yes	Yes	Gas flare, dog barking	Yes
31/5/2012	23.00-05.30		M6	31	25	31	60	No		Gas flare, dog barking	Yes
31/5/2012	23.00-05.30		M7	38	27	33	65	Yes	Yes	Gas flare, powerlines	Yes
31/5/2012	23.00-05.30		M9	47	21	36	73	No		Gas flare, dog barking	Yes
31/5/2012	23.00-05.30	M10		44	38	45	73	No		Gas flare, dog barking	Yes
31/5/2012	23.00-05.30	M11		36	26	33	67	No		Gas flare, dog barking	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?

SELECT

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

Exceedance of licence limits at monitoring location M9 was as a result of external interference noise and was not related to site activity noise.

Resource Usage/Energy efficiency summary

Lic No:

W0017-04

Year

2012

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

2 Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI - Large Industry Energy Network (LIEN) programme linked to the right? If yes please list them in additional information

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

Additional information

2006	
no	
SELECT	

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)	391	522	34%	
Total Energy Generated (MWHrs)	5097	7115	40%	
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	391	522	34%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	10.5	11.6	10%	
Light Fuel Oil (m3)				
Natural gas (CMN)				
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 ³ /yr):	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)	4.32				
Non-Hazardous (Tonnes)	36,493				

Resource Usage/Energy efficiency summary	Lic No: W0017-04	Year	2012
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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	energy audit		Jun-09	Landfill Manager	Jun-09	Complete
2006	Install DO probe to control aerators in LTP.	Link DO probe to aera	energy audit	20	Jun-07	Landfill Manager	Jun-07	Complete
2006	Consider installation of air diffusion system in LTP.	Install alternative aera	energy audit		2013	Landfill Manager		Ongoing

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	7896 hrs				
Total Electricity Generated (GWH)	7.12				
House Load (GWH)	0.52				
KWH per Litre of Process Water					
KWH per Litre of Total Water used on Site					

WASTE SUMMARY		Lic No:	W0017-04	Year	2012
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES		PRTR facility login		dropdown list click to see options	

SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES

Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility?; (waste generated within your boundaries is to be captured through PRTR reporting)

If yes please enter details in table 1 below

Additional Information	
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)

Licensed annual tonnage limit for your site (total tonnes/annum)	EWG code European Waste Catalogue EWG codes	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which applies to European Waste Catalogue EWG 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	128,916.06	129208.18	-1%			D5- Specially engineered landfill	0	
130,000	20 03 03	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	street sweepings	186.69	418.38	-55%			D5- Specially engineered landfill	0	
130,000	19 08 01	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	WWTP Screenings	101.06	129.58	-22%			D5- Specially engineered landfill	0	
130,000	11 01 10	11- WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY	Filter cake Gypsum	186.44	238.32	-22%			D5- Specially engineered landfill	0	
2,000	03 01 99	03- WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD	woodash	928.94	0				R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asanother biological transformation processes)which includes gasification and pyrolysis	0	
	19 03 05	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	biostabilised waste	2,065.04	0				R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	0	

WASTE SUMMARY		Lic No:		W0017-04		Year		2012	
50,000	17 01 03	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	tiles & ceramics	502.44	722.5	-30%		R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	0
50,000	17 05 04	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	soil & stone	1,889.32	2453.6	-23%		R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	0
50,000	19 12 12	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	C&D	6,484.20	4283.64	51%		R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	0
2,000	17 02 01	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	woodchip	342.20	488.88	-30%		R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asanother biological transformation processes)which includes gasification and pyrolisis	0
5,000	20 01 39		plastic bottles	7.29	5.08	44%		R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	0
5,000	20 01 01		tetrapaks	1.36	1.4	-3%		R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	0
5,000	20 01 01		newspapers magazines	22.00	30.32	-27%		R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asanother biological transformation processes)which includes gasification and pyrolisis	0
5,000	20 01 02		Glass	7.38	10.29	-28%		R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	0
5,000	20 01 05		food cans	0.51	1.02	-50%		R4- Recycling/reclamation of metals and metal compounds	0
5,000	20 01 05		drink cans	0.48	1.18	-59%		R4- Recycling/reclamation of metals and metal compounds	0
5,000	20 01 01		cardboard	13.60	9.68	40%		R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asanother biological transformation processes)which includes gasification and pyrolisis	0

WASTE SUMMARY										Lic No:	W0017-04	Year	2012
5,000	20 01 40		mixed metals	23.64	34.6	-32%			R4- Recycling/reclamation of metals and metal compounds	0			
5,000	20 01 11		textiles	1.54	2.64	-42%			R5-Recycling/reclamation or other inorganic materials which includes soil celerating resulting in recovery of the soil and recycling of inorganic construction materials	0			
5,000	20 01 36		LDA non haz	5.82	5.64	5%			R4- Recycling/reclamation of metals and metal compounds	0			
5000	20 01 35		fridge freezers	4.32	9.04	-52%			R4- Recycling/reclamation of metals and metal compounds	0			
5000	20 01 35		small WEEE	1.06	3.06	-65%			R4- Recycling/reclamation of me	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

SELECT	
SELECT	
SELECT	

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

SELECT	
SELECT	
SELECT	

6 Does your facility have relevant nuisance controls in place?

7 Do you have an odour management system in place for your facility? If no why?

8 Do you maintain a sludge register on site?

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)	130,000	129,360.25	140,000	

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type
										m2	m2	m2	
Cells 1 to 16		Mar-90 ongoing	Yes	Public	Non Hazardous	2014	No	No	No	148,600	127,800	20,800	As per licence r

WASTE SUMMARY		Lic No:	W0017-04	Year	2012
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Table 4 Environmental monitoring-landfill only [Landfill Manual-Monitoring Standards](#)

Was meteorological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments
Yes	Yes	Yes	Yes	Yes	Yes	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
m2	m2					
5,875	14,587	134,013	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
Yes

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

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments
23,163	88	NA	24	NA	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
3,459,881	7115 MWh	Both	Yes	



| PRTR# : W0017 | Facility Name : Gortadroma Landfill Site | Filename : PRTR 2012.xls | Return Year : 2012 |

2/4/2013 09:44

[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.15

REFERENCE YEAR	2012
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1. FACILITY IDENTIFICATION

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

Waste or IPPC Classes of Activity

No.	class name
3.5	Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.
3.1	Deposit on, in or under land (including landfill).
3.11	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
3.6	Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1. to 10. of this Schedule.
3.7	#####
4.10	The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system.
4.11	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
4.12	Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.
4.13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
4.9	Use of any waste principally as a fuel or other means to generate energy.
Address 1	Gortadroma
Address 2	Ballyhahill
Address 3	Co. Limerick
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	jocarroll@limerickcoco.ie
AER Returns Contact Position	LANDFILL MANAGER
AER Returns Contact Telephone Number	069-82355
AER Returns Contact Mobile Phone Number	087-7565449
AER Returns Contact Fax Number	069-82350
Production Volume	0.0
Production Volume Units	
Number of Installations	1
Number of Operating Hours in Year	2210
Number of Employees	9
User Feedback/Comments	
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?	
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

4.1 RELEASES TO AIR [Link to previous years emissions data](#)

| PRTR# : W0017 | Facility Name : Gortadroma Landfill Site | Filename : PRTR_2012.xls | Return Year : 2012 |

2/4/2013 09:44

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR		METHOD		Please enter all quantities in this section in KGs			QUANTITY		
No. Annex II	POLLUTANT Name	M/C/E	Method Code	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
				Designation or Description	Landfill gas engine				
				Total estimated methane generated minus (methane flared + utilised)					
01	Methane (CH4)	C	OTH				0.0	2857624.0	0.0
03	Carbon dioxide (CO2)	C	OTH				0.0	20400000.0	0.0
08	Nitrogen oxides (NOx/NO2)	M	OTH				2129.74	0.0	0.0
11	Sulphur oxides (SOx/SO2)	M	OTH				94.15	0.0	0.0
02	Carbon monoxide (CO)	M	OTH				5034.62	0.0	0.0
86	Particulate matter (PM10)	M	OTH				4.35	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		METHOD		Please enter all quantities in this section in KGs			QUANTITY		
No. Annex II	POLLUTANT Name	M/C/E	Method Code	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
				Designation or Description					
							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		METHOD		Please enter all quantities in this section in KGs			QUANTITY		
Pollutant No.	POLLUTANT Name	M/C/E	Method Code	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
				Designation or Description					
							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		Facility Total Capacity m3 per hour	
		Method Code	Designation or Description		
Total estimated methane generation (as per site model)	5156635.0	E	OTH	Gassim model	N/A
Methane flared	861442.0	M	OTH	Landfill Gas Survey	2000.0 (Total Flaring Capacity)
Methane utilised in engine/s	1437569.0	M	OTH	Landfill Gas Survey	600.0 (Total Utilising Capacity)
Net methane emission (as reported in Section above)	2857624.0	C	OTH	Total estimated methane generated minus (methane flared + utilised)	N/A

4.2 RELEASES TO WATERS [Link to previous years emissions data](#)

| PRTR# : W0017 | Facility Name : Gortadroma Landfill Site | Filename : PRTR 2012.xls | Return Year : 2012 |

2/4/2013 09:44

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Date 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

POLLUTANT		RELEASURES TO WATERS			Please enter all quantities in this section in KGs			QUANTITY	
No. Annex II	Name	M/C/E	Method Used		SW4-Storm water discharge	Treated Leachate discharge	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description	Emission Point 1	Emission Point 2			
18	Cadmium and compounds (as Cd)	M	ALT	ISO 11885 2007	3.207	0.0	3.207	0.0	0.0
19	Chromium and compounds (as Cr)	M	ALT	ISO 11885 2007	3.207	0.0	3.207	0.0	0.0
20	Copper and compounds (as Cu)	M	CRM	UKAS	5.773	0.0	5.773	0.0	0.0
21	Mercury and compounds (as Hg)	M	CRM	UKAS	0.065	0.0	0.065	0.0	0.0
22	Nickel and compounds (as Ni)	M	ALT	ISO 11885 2007	12.828	0.0	12.828	0.0	0.0
23	Lead and compounds (as Pb)	M	ALT	ISO 11885 2007	6.414	0.0	6.414	0.0	0.0
24	Zinc and compounds (as Zn)	M	ALT	ISO 11885 2007	6.414	0.0	6.414	0.0	0.0
34	1,2-dichloroethane (EDC)	M	CRM	UKAS	0.642	0.0	0.642	0.0	0.0
62	Benzene	M	CRM	UKAS	0.642	0.0	0.642	0.0	0.0
91	Benzo(g,h,i)perylene	M	CRM	UKAS	0.642	0.0	0.642	0.0	0.0
Standard methods for examination of water & wastewater 4500D					15656.47	0.0	15656.47	0.0	0.0
79	Chlorides (as Cl)	M	OTH		15656.47	0.0	15656.47	0.0	0.0
35	Dichloromethane (DCM)	M	CRM	UKAS	0.642	0.0	0.642	0.0	0.0
65	Ethyl benzene	M	CRM	UKAS	0.642	0.0	0.642	0.0	0.0
88	Fluoranthene	M	CRM	UKAS	0.642	0.0	0.642	0.0	0.0
43	Hexachlorobutadiene (HCBd)	M	CRM	UKAS	0.642	0.0	0.642	0.0	0.0
42	Hexachlorobenzene (HCB)	M	CRM	UKAS	0.642	0.0	0.642	0.0	0.0
68	Naphthalene	M	CRM	UKAS	0.642	0.0	0.642	0.0	0.0
49	Pentachlorophenol (PCP)	M	CRM	UKAS	0.642	0.0	0.642	0.0	0.0
73	Toluene	M	CRM	UKAS	0.642	0.0	0.642	0.0	0.0
12	Total nitrogen	M	CRM	UKAS	256.55	0.0	256.55	0.0	0.0
13	Total phosphorus	M	CRM	UKAS	76.96	19.71	96.67	0.0	0.0
60	Vinyl chloride	M	CRM	UKAS	0.321	0.0	0.321	0.0	0.0
78	Xylenes	M	CRM	UKAS	0.642	0.0	0.642	0.0	0.0
76	Total organic carbon (TOC) (as total C or COD/3)	M	CRM	UKAS	5672.07	0.0	5672.07	0.0	0.0
61	Anthracene	M	CRM	UKAS	0.642	0.0	0.642	0.0	0.0
					0.0	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 PRTR POLLUTANTS

POLLUTANT		RELEASURES TO WATERS			Please enter all quantities in this section in KGs			QUANTITY	
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
			Method Code	Designation or Description					
					0.0	0.0	0.0	0.0	
					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)

POLLUTANT		RELEASURES TO WATERS			Please enter all quantities in this section in KGs			QUANTITY	
Pollutant No.	Name	M/C/E	Method Used		SW4- Storm water discharge	Treated leachate discharge	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description	Emission Point 1	Emission Point 2			
238	Ammonia (as N)	M	CRM	UKAS	198.83	21.61	220.44	0.0	0.0
303	BOD	M	CRM	UKAS	1122.44	88.58	1211.02	0.0	0.0
Standard methods for examination of water & wastewater 4500D					17016.23	0.0	17016.23	0.0	0.0
306	COD	M	OTH		17016.23	0.0	17016.23	0.0	0.0
Standard methods for examination of water & wastewater 4500D					9569.62	309.21	9878.83	0.0	0.0
240	Suspended Solids	M	OTH		9569.62	309.21	9878.83	0.0	0.0
357	Iron	M	ALT	ISO 11885 2007	14.11	0.0	14.11	0.0	0.0
320	Magnesium	M	ALT	ISO 11885 2007	2950.42	0.0	2950.42	0.0	0.0
321	Manganese (as Mn)	M	ALT	ISO 11885 2007	3.207	0.0	3.207	0.0	0.0
332	Ortho-phosphate (as PO4)	M	CRM	UKAS	769.67	0.0	769.67	0.0	0.0
343	Sulphate	M	CRM	UKAS	17206.35	0.0	17206.35	0.0	0.0
341	Sodium	M	ALT	ISO 11885 2007	12827.92	0.0	12827.92	0.0	0.0
338	Potassium	M	ALT	ISO 11885 2007	3720.09	0.0	3720.09	0.0	0.0
374	Boron	M	ALT	ISO 11885 2007	30.72	0.0	30.72	0.0	0.0
305	Calcium	M	ALT	ISO 11885 2007	33352.59	0.0	33352.59	0.0	0.0

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

[PRTR# : W0017 | Facility Name : Gortadroma Landfill Site | Filename : PRTR 2012.xls | Return Year : 2012 |

2/4/2013 09:44

Please enter all quantities on this sheet in Tonnes

3

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility	Non-Haz Waste : Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility	Non-Haz Waste : Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used							
Within the Country	16 01 03	No	0.0	end-of-life tyres	R5	M	Weighed	Offsite in Ireland	CROSSMORE TRANSPORT L.t.d, Facility Permit Number-CK(N)523/08		CARRIGDOWANE UPPER,ROCKMILLS,KILOD ERRERY,COUNTY CORK,Ireland			
Within the Country	19 07 03	No	3359.06	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	LISTOWEL WASTE WATER TREATMENT PLANT,D0179-01		LISTOWEL WASTE WATER TREATMENT PLANT,LISTOWEL ,COUNTY KERRY,..Ireland			
Within the Country	19 07 03	No	3327.62	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	BALLYBUNION WASTE WATER TREATMENT PLANT,D0183-01		BALLYBUNION WASTE WATER TREATMENT PLANT,BALLYBUNION ,COUNTY KERRY,..Ireland			
Within the Country	19 07 03	No	3284.29	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	BALLYHEIGUE WASTE WATER TREATMENT PLANT,D0186-01		BALLYHEIGUE WASTE WATER TREATMENT PLANT,BALLYHEIGUE T,COUNTY KERRY,..Ireland			
Within the Country	19 07 03	No	11571.0	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	ENVA IRELAND ,W0041-01		ENVA IRELAND ,SMITHSTOWN INDUSTRIAL EST.,SHANNON,COUNTY CLARE,Ireland			
Within the Country	19 07 03	No	1457.42	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	PALLASKENERY WASTE WATER TREATMENT PLANT,D0304-01		PALLASKENERY WASTE WATER TREATMENT PLANT,PALLASKENERY ,COUNTY LIMERICK,..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	TUAM WASTE WATER TREATMENT PLANT,D0031-01		TUAM WASTE WATER TREATMENT PLANT,TUAM,COUNTY GALWAY,..Ireland			
Within the Country	19 07 03	No	349.89	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	CASTLETROY WASTE WATER TREATMENT PLANT,D0019-01		CASTLETROY WASTE WATER TREATMENT PLANT,CASTLETROY,COUNTY LIMERICK,..Ireland			
Within the Country	20 01 01	No	22.0	Newspapers & Magazines	R3	M	Weighed	Offsite in Ireland	South West Bins,WFP-10-003-02		KILMORNA,LISTOWEL,COUNTY KERRY,..Ireland			
Within the Country	20 01 01	No	13.6	Carboard	R3	M	Weighed	Offsite in Ireland	South West Bins,WFP-10-003-02		KILMORNA,LISTOWEL,COUNTY KERRY,..Ireland			
Within the Country	20 01 02	No	7.38	glass	R5	M	Weighed	Offsite in Ireland	MR. BINMAN,W0061-03		LUDDENMORE,GRANGE,KILMALLOCK,COUNTY LIMERICK,Ireland			
Within the Country	20 01 11	No	1.54	textiles	R5	M	Weighed	Offsite in Ireland	COOKSTOWN TEXTILE RECYCLERS,W0061-01		COOKSTOWN TEXTILE ROAD,RANDALSTOWN,COUNTY ANTRIM,Ireland			
To Other Countries	20 01 35	Yes	4.32	Fridge Freezers	R4	M	Weighed	Abroad	KMK METAL RECYCLERS,W0113-04		KMK METAL RECYCLERS,CAPPINCUR INDUSTRIAL EST.,TULLAMORE,COUNTY OFFALY,Ireland	EUROPEAN METAL RECYCLING L.t.d,EPR/GP3292FT,BENTLEY ROAD SOUTH,DARLASTON,WEST MIDLANDS,WS10 8LW,United Kingdom	BENTLEY ROAD SOUTH,DARLASTON,WEST MIDLANDS,WS10 8LW,United Kingdom	
Within the Country	20 01 36	No	5.82	LDA Non-Hazardous	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 36	No	1.06	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	TREVOR RATCLIFFE DELIVERIES L.T.D.MULTI REGIONAL PERMIT NO: WCP-DC-08-1130-01		BALLYSTAHAN,ST. MARGARETS,COUNTY DUBLIN,..Ireland			
Within the Country	20 01 39	No	7.29	plastics	R5	M	Weighed	Offsite in Ireland	South West Bins,WFP-10-003-02		KILMORNA,LISTOWEL,COUNTY KERRY,..Ireland			
Within the Country	20 01 40	No	0.48	Drink Cans	R4	M	Weighed	Offsite in Ireland	MR. BINMAN,W0061-03		LUDDENMORE,GRANGE,KILMALLOCK,COUNTY LIMERICK,Ireland			
Within the Country	20 01 40	No	23.64	Mixed Scrap Metal	R4	M	Weighed	Offsite in Ireland	ERIN RECYCLERS, Facility permit number-SO-11-003-03		ERIN RECYCLERS,DEEPWATER QUAY,FINISKLIN SLIGO HARBOUR,SLIGO,Ireland			
Within the Country	20 01 99	No	1.36	Tetra Packs	R5	M	Weighed	Offsite in Ireland	South West Bins,WFP-10-003-02		KILMORNA,LISTOWEL,COUNTY KERRY,..Ireland			

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						M/C/E	Method Used					
Within the Country	20 01 99	No	0.51	Food Cans	R4	M	Weighed	Offsite in Ireland	MR. BINMAN,W0061-03		LUDDENMORE,GRANGE,KI LMALLOCK,COUNTY LIMERICK,Ireland	
Within the Country	19 07 03	No	1757.22	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	BUNLICKY WASTE WATER TRETMENT PLANT,D001301	DOCK ROAD,..,LIMERICK,..,Ireland		
Within the Country	19 07 03	No	3546.74	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	Newcastlewest waste water treatment plant,D0108-01	Newcastlewest ..,County Limerick,..,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](#)