<b>Facility</b>	Information	<b>Summary</b>
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AER Reporting Year
Licence Register Number
Name of site
Site Location
NACE Code
Class/Classes of Activity
National Grid Reference (6E, 6 N)

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

2016	
W0073	
Roscom	nmon Landfill Facility
Killarney 1	Townland, Roscommon
	3821
3.11,3.12, 3.13, 3.	4,3.6, 3.7, 4.13, 4.2, 4.3, 4.4, 4.

Landfilling at the facility ceased on December 31st 2001. A Recycling Centre is in operation at the site which accepts recyclables such as paper, glass and cardboard. Domestic waste is also accepted for disposal. 252.8 tonnes of mixed municipal waste was collected at the facility in 2016. Barna Waste service the site and remove the domestic mixed municipal waste for pre-treatment prior to disposal. No development works took place in 2016. There were no incidents or complaints reported for the year 2016.

**Surface water:** The surface water parameters were within limits with exception of COD and DO, which is consistent with previous results. The higher levels of COD at SW3 and DO at SW1, SW3 and SW7, may indicate possible influence from the adjacent raised area of filling. However, all three locations are above DO recommended levels which may indicate that other factors other than the raised area of filling are responsible. **Groundwater:** Groundwater parameters were within limits with exception of Ammonia which is consistent with previous results. The ammonia levels exceeded the limits both up- and downgradient of the site; with increased levels recorded in the wells downgradient, which is consistent with previous trends. However, it should be noted that the overall mean ammonia value was within the guideline limits.

**Leachate:** There was a significant increase in the mean levels of ammonia, COD and Chloride in comparison to previous monitoring levels in H1 and H2 2015. The leachate mean levels for temperature, BOD and conductivity has also increased, with pH the only parameter decreasing in the monitoring period. All leachate is now pumped directly to the public sewer in Roscommon. The total quantity that was pumped in 2016 was 10,968 cubic metres.

**Landfill Gas Monitoring:** There were no significantly large increases or decreases as regards the gas parameter concentrations in comparison to the previous monitoring periods. The mean methane and carbon dioxide concentrations have slightly decreased in H2 2016 from the levels recorded H1 2016. The mean oxygen concentration has increased in H2 2016 from the level recorded in the previous monitoring period, H1 2016.

# **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.

Madden 30/03/2017

Signature Date Group/Facility manager

(or nominated, suitably qualified and experienced deputy)

	AIR-summary template	Lic No:	W0073	Year	2016	
	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 <u>do not</u> 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 Basic air	No				
3	Was all monitoring carried out in accordance with EPA guidance monitoring note AG2 and using the basic air monitoring checklist? checklist AGN2	Yes				
	Table 64. Licensed Mass Emissions / Ambient data naviadis monitoring (non-continuous)					

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

Emission reference no:	Parameter/ Substance	Frequency of	ELV in licence or any revision therof	Licence Compliance criteria		Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass	Comments -reason for change in % mass load from previous year if applicable
Flare Outlet	Volumetric Flow	Biannual	3000m3/hr	100 % of values < ELV	50	m3/hr				
Flare Outlet	со	Biannual	650 mg/m3	100 % of values < ELV	2.96	mg/m3				

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

AIR-summary template				Lic No:	W0073	Year	2016		
С	ontinuous Monitoring								
4 Does your site carry out conti	nuous air emissions monitoring?			No					
If yes please review your con	inuous monitoring data and report it to its relevant Emission Liu	•	elow in Table A2 and compare		_		<b>-</b>		
Did continuous monitoring eq	uipment experience downtime? If y	es please record dow	vntime in table A2 below	SELECT					
6 Do you have a proactive service	e agreement for each piece of cont	inuous monitoring ed	quipment?	SELECT					
	ce any abatement system bypasses		them in table A3 below	SELECT					
Table A2: Summary of	verage emissions -continuo	ous monitoring							
Emission Parameter reference no:	Substance	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Equipment	Number of ELV exceedences in	Comments	
	ELV in licence or					downtime (hours)	current reporting year		

SELECT

SELECT

SELECT

SELECT

SELECT

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

SELECT

SELECT

SELECT

SELECT

Table A3: Abatement system bypass reporting to	able Bypass proto
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any revision therof

By	pass	pro	toco

SELECT

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

<sup>\*</sup> this should include all dates that an abatement system bypass occurred

<sup>\*\*</sup> 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:	W0073		Year	2016	
	t use and manageme	nt on site							2010	
Solven	t use and manageme	nt on site					1			
Do you have a tota	o you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5									
			la i			7	SELECT			
	ent Management Pla ission limit value	n Summary	Solvent regulations	Please refer to linked solven complete table 5						
TOLAI VOC EIII	ission illilit value									
										ļ
					_	<u> </u>				ŀ
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air	Total VOC emissions as %of		Compliance					
		from entire site	solvent input	Total Emission Limit Value						
		(direct and fugitive)		(ELV) in licence or any revision therof						
					SELECT					
					SELECT					
Table A5:	: Solvent Mass Baland	ce summary							<b>-</b>	
	(I) Inputs (kg)			(0)	Outputs (kg)					
	(1)			ν-7						
			•							
Solvent	(I) Inputs (kg)		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)		
									1	
									1	
									1	
	•	1	ı	ı	l	l .	Total		1	

AEK WOULL	Jillig returns su	illilary template-wa	ATER/WASTEW	MIENJEWEN	<u> </u>	LIC NO:	WUU73		rear	2010	<u> </u>				
							Additional information		,						
please com further quest	nplete table W2 ar ions. If <mark>you do not</mark>	nissions direct to surfacted W3 below for the current have licenced emissions storm water analysis ar	rent reporting yea s you <u>only</u> need to	ar and answer complete table	No	All leachate is pump	ed directly to the public sewer in R	oscommon.							
discharges or	r watercourses on	ence to carry out visual or near your site? If yes ence of contamination n	please complete t	table W2 below	V	Complete visual	inspection of 3 no. sampling location								
	W1 Storm wat		-		Yes	rrequen	cy. No evidence of contamination of	observed.	1						
Tubic	- WI Storm Wat	ci illollitoring			ELV or						1				
Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	trigger level in licence or any	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	e Agency outside of licence	ce conditions												
Table	W2 Visual insp	ections-Please only	enter details w	here contami	nation was	observed.					_				
Location Reference	Date of inspection	De	escription of contan	mination		Source of contamination Corrective action			Comments						
						SELECT									
						SELECT									
Was there and	y result in breach of com hitoring carried out in checklists for Quality		es please provide br below External /Internal	rief details in the	ng (non-co	The surface water so exception of COD at of COD at SW3 may filling. However, all twhich may indicate	impling points were within limits se SW3 and DO at SW1, SW3 and SW indicate influence from the adjace hree locations are above DO recon that other factors other than the ra rganese and Iron are non-compliar ommended limit.	7. The higher levels nt raised area of nmended levels aised area of filling							
require im	provement in additi	olease detail what areas onal information box	Lab Quality checklist r wastewater (s	Assessment of results checklist sewer)-period		ng (non-continu	ous)								
Emission	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of	Averaging period	ELV or trigger values in licence or any revision therof <sup>Note 2</sup>	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load	Comments

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0073

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging	ELV or trigger values in licence or any revision therof <sup>Note 2</sup>	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
SW3	Water	Ammonia (as N)	discrete	Biannual	SELECT	0.140 (95%ile)	All values < ELV	0.091	mg/L	yes		SELECT			
SW3	Water	BOD		Biannual		= 2.6 (95%ile)</td <td>All values &lt; ELV</td> <td>2.4</td> <td>mg/L</td> <td>yes</td> <td></td> <td></td> <td></td> <td></td> <td></td>	All values < ELV	2.4	mg/L	yes					
SW3	Water	COD		Biannual		40	All values < ELV	65	mg/L	no (if no please enter details in comments box)					
SW3	Water	Chlorides (as Cl)		Biannual		250	All values < ELV	17.16	mg/L	yes					
SW3	Water	Conductivity		Biannual		2500	All values < ELV	649	μS/cm @20oC	yes					
SW3	Water	Dissolved Oxygen		Biannual		5	All values < ELV	10.17	mg/L	no (if no please enter details in comments box)					
SW3	Water	pH		Biannual		6.0 <ph<9.0< td=""><td>All values &lt; ELV</td><td>7.58</td><td>pH units</td><td>yes</td><td></td><td></td><td></td><td></td><td></td></ph<9.0<>	All values < ELV	7.58	pH units	yes					
SW3	Water	Suspended Solids		Biannual		25	All values < ELV	14.5	mg/L	yes					
SW3	Water	Temperature		Biannual		25	All values < ELV	16	degrees C	yes					
SW3	Water	Cadmium and compounds (as Cd)		Annual		0.15	All values < ELV	<0.1	μg/L	yes					
SW3	Water	Chromium and compounds (as Cr)		Annual		Cr VI 3.4	All values < ELV	<1	μg/L	yes					

ER Monitor	ing returns su	ummary template-WATEI	R/WASTEWATER(SEWER)	Lic N	o:	W0073		Year	2016		
SW3	Water	Copper and compounds (as Cu)	Annual		30	All values < ELV	<0.003	μg/L	yes		
SW3	Water	Iron	Annual		200	All values < ELV	520	μg/L	no (if no please enter details in comments box)		
SW3	Water	Lead and compounds (as Pb)	Annual		7.2	All values < ELV	<0.3	μg/L	yes		
SW3	Water	Magnesium	Annual		None	All values < ELV	10.1	mg/L	N/A		1
SW3	Water	Manganese	Annual		50	All values < ELV	110	μg/L	no (if no please enter details in comments box)		
SW3	Water	Mercury	Annual		0.05	All values < ELV	<0.02	μg/L	yes		1
SW3	Water	Nickel	Annual		20	All values < ELV	4.8	μg/L	yes		
SW3	Water	Ortho-Phosphate PO4-P	Annual		n/a	All values < ELV	17.6	mg/L	n/a		
SW3	Water	Potassium	Annual		None	All values < ELV	3.02	mg/L	N/A		
SW3	Water	Sodium	Annual		200	All values < ELV	9.19	mg/L	yes		
SW4	Water	Sulphate	Annual		200	All values < ELV	<1.8	mg/L	yes		
SW5	Water	Total Phosphorus	Annual		None	All values < ELV	0.05	mg/L	N/A		
SW6	Water	Zinc	Annual		100	All values < ELV	1.9	μg/L	yes		

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

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER	)	Lic No:	W0073		Year	2016	j.
							<mark>/</mark>
Note 2: Where Emission Limit Values (ELV) do not apply to your licence please compare results again	nst EQS for Su	ırface water or r	relevant receptor quality st	andards			
5 Continuous monitoring			Additional Info	rmation			
Does your site carry out continuous emissions to water/sewer monitoring?							
	SELECT						
If yes please summarise your continuous monitoring data below in Table W4 and compare it to							
its relevant Emission Limit Value (ELV)							
Did continuous monitoring equipment experience downtime? If yes please record downtime in							
table W4 below	SELECT						
Do you have a proactive service contract for each piece of continuous monitoring equipment on							
site?	SELECT						
Did abatement system bypass occur during the reporting year? If yes please complete table W5	SELECT						
Table W4: Summary of average emissions -continuous monitoring							

Emission reference no:	Emission released to		ELV or trigger values in licence or any revision thereof	0 0	Compliance Criteria		previous reporting	 Number of ELV exceedences in reporting year	Comments
	SELECT	SELECT		SELECT	SELECT	SELECT			
	SELECT	SELECT		SELECT	SELECT	SELECT			

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

Table W5: Abatement system bypass reporting table

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

<sup>\*</sup>Measures taken or proposed to reduce or limit bypass frequency

	esting template				Lic No:	W0073		Year	2010	5				
Bund testing	_	dropdown menu cli	ick to see entions				Additional information					•		_
							Additional information	1						
		integrity testing on bunds and con n to <b>all bunds which failed</b> the inte												
		nds outside the licenced testing pe			mobile bullus must be		Leachate lagoon only containment							
			mobile barias and ener	istore included;		Yes	structure on site.							
	ty testing frequency perio					3 years								
	in a register of bunds, und its and mobile bunds)	derground pipelines (including stor	rmwater and toul), Tanks, sui	nps and containers? (conta	ainers reters to	No								
chemistore type uni	ts and mobile bunds)					NO	Leachate lagoon only containment	1						
ow many bunds are	on site?					1	structure on site.							
		thin the required test schedule?				N/A								
6 How many mobile bunds are on site? 7 Are the mobile bunds included in the bund test schedule?						0 SELECT								
		scrieduler ested within the required test sche	edule?			SELECT								
	site are included in the in		iddle:					1						
		within the test schedule?												
	ntegrity failures in table I							7						
	mbers have high level liqu	iid alarms? d in a maintenance and testing pro				SELECT SELECT		4						
		o in a maintenance and testing pro our integrity test programme?	ogrammer			SELECT								
o the rine water nete		our megney test programme.				SELECT								
Tab	ble B1: Summary details o	f bund /containment structure int	tegrity test											
														1
														R
									Integrity reports					re
Bund/Containment									maintained on		Integrity test failure		Scheduled date	
	Type										explanation <50 words			
structure ID		Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	site?	Results of test	explanation 430 words	Corrective action taken	for retest	re
structure ID	SELECT	Specify Other type	Product containment	Actual capacity	Capacity required*	SELECT	Other test type	Test date	SELECT	SELECT	Explanation 50 words	SELECT	Torretest	re
* Capacity required should com	SELECT SELECT pply with 25% or 110% containment	rule as detailed in your licence		Actual capacity	Capacity required*		Other test type  Commentary	Test date			explanation 430 words		Torretest	re
* Capacity required should com Has integrity testing b	SELECT SELECT  sply with 25% or 110% containment open carried out in accord					SELECT SELECT		Test date	SELECT	SELECT	explanation 450 words	SELECT	Torretest	re
Capacity required should com Has integrity testing b in line with BS8007/EF	SELECT SELECT  SPLECT	rule as detailed in your licence ance with licence requirements ar		bunding and storage guidel		SELECT SELECT SELECT		Test date	SELECT	SELECT	explanation 50 words	SELECT	Torretest	re
Capacity required should com Has integrity testing b in line with BS8007/EI Are channels/transfer	SELECT SELECT  SPLECT	rule as detailed in your licence ance with licence requirements ar	nd are all structures tested			SELECT SELECT		Test date	SELECT	SELECT	explanation 50 words	SELECT	iorretest	re
Capacity required should com Has integrity testing b in line with BS8007/EI Are channels/transfer	SELECT SELECT  SPLECT	rule as detailed in your licence ance with licence requirements ar inment systems tested?	nd are all structures tested			SELECT SELECT SELECT SELECT		Test date	SELECT	SELECT	expandition 50 words	SELECT	ioi retest	re
*Capacity required should com Has integrity testing b in line with BS8007/Ei Are channels/transfer Are channels/transfer	SELECT SELECT sply with 25% or 110% containment recent carried out in accord PA Guidance? rsystems to remote contar r systems compliant in bo	rule as detailed in your licence ance with licence requirements ar inment systems tested?	nd are all structures tested			SELECT SELECT SELECT SELECT		Test date	SELECT	SELECT	CAMBRICATION STOWN CO.	SELECT	ioi retest	re
*Capacity required should com Has integrity testing b in line with BS8007/Ei Are channels/transfer Are channels/transfer	SELECT SELECT  SPLECT	rule as detailed in your licence ance with licence requirements ar inment systems tested?	nd are all structures tested			SELECT SELECT SELECT SELECT		Test date	SELECT	SELECT	expansion So words	SELECT	ioi retest	re
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Capacity required should com Has integrity testing b In line with BS8007/Efr Are channels/transfer Are channels/transfer Pipeline/undergr Are you required by y all underground struct	SELECT  SELECT	rule as detailed in your licence ance with licence requirements ar inment systems tested? th integrity and available volume? integrity testing* on underground e which failed the integrity test ar	nd are all structures tested	bunding and storage guidel	ines	SELECT  SELECT  SELECT  SELECT  SELECT  SELECT  SELECT		Test date	SELECT	SELECT	expansion So words	SELECT	IUI Tetest	re
Capacity required should com las integrity testing b Iniem with BS8007/Ef Are channels/transfer Are channels/transfer Pipeline/undergra Are you required by y all underground struct Please provide integri	SELECT  SELECT  SPECT  ply with 25% or 1:0% containment seen Carried out in accord  AR Guidance?  systems to remote conta  r systems compliant in bo  ound structure testing  our licence to undertake i  tures and pipelines on sith  ty testing frequency peric	nule as detailed in your licence ance with licence requirements ar iniment systems tested? th integrity and available volume? integrity testing* on underground which failed the integrity test ar dd	structures e.g. pipelines or s	bunding and storage guidel umps etc ? If yes please fill sted withing the integrity	ines	SELECT SELECT SELECT SELECT SELECT SELECT		Test date	SELECT	SELECT	expansion So words	SELECT	IVI Tetest	re
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Capachy required should com Has integrify testing by Has integrify testing by Are channels/transfer Are channels/transfer Pipeline/undergn Are you required by yu all underground struc Please provide integrify	SELECT SELECT SELECT SPA with 25% at 10% containment, even carried out in accord PA Guidance? systems to remote conta or systems compliant in bo ound structure testing our licence to undertake in tures and pipelines on sits ty testing frequency peric t testing means water tight	nule as detailed in your licence ance with licence requirements ar iniment systems tested? th integrity and available volume? integrity testing* on underground which failed the integrity test ar dd	nd are all structures tested  structures e.g. pipelines or s nd all which have not been to pipelines (as required under	bunding and storage guidel umps etc ? If yes please fill sted withing the integrity	ines	SELECT  SELECT  SELECT  SELECT  SELECT  SELECT  SELECT		Test date	SELECT	SELECT	CADITION OF THE PROPERTY OF TH	SELECT	IU Tetest	re
Capachy required should com Has integrify testing by Has integrify testing by Are channels/transfer Are channels/transfer Pipeline/undergn Are you required by yu all underground struc Please provide integrify	SELECT SELECT SELECT SPA with 25% at 10% containment, even carried out in accord PA Guidance? systems to remote conta or systems compliant in bo ound structure testing our licence to undertake in tures and pipelines on sits ty testing frequency peric t testing means water tight	role as detailed in your keene ance with fileence requirements are iliment systems tested? th integrity and available volume? integrity testing* on underground e which failed the integrity test are odd	nd are all structures tested  structures e.g. pipelines or s nd all which have not been to pipelines (as required under	bunding and storage guidel umps etc ? If yes please fill sted withing the integrity	ines	SELECT  SELECT  SELECT  SELECT  SELECT  SELECT  SELECT		Test date	SELECT	SELECT	expansion So words	SELECT	IVI Tetest	re
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Capacity required should com das integrity testing solutions in line with BSOSOT/E Are channels/transfer Are channels/transfer Pipeline/undergn Are you required by y all underground struc Please provide integrity	SELECT SELECT SELECT SPA with 25% at 10% containment, even carried out in accord PA Guidance? systems to remote conta or systems compliant in bo ound structure testing our licence to undertake in tures and pipelines on sits ty testing frequency peric t testing means water tight	role as detailed in your keene ance with fileence requirements are iliment systems tested? th integrity and available volume? integrity testing* on underground e which failed the integrity test are odd	nd are all structures tested  structures e.g. pipelines or s nd all which have not been to pipelines (as required under	bunding and storage guidel umps etc ? If yes please fill sted withing the integrity	ines	SELECT  SELECT  SELECT  SELECT  SELECT  SELECT  SELECT		Test date	SELECT	SELECT	CADITION STORY OF THE STORY OF	SELECT	IVI Telest	re
Capachy required should com Has integrify testing by Has integrify testing by Are channels/transfer Are channels/transfer Pipeline/undergn Are you required by yu all underground struc Please provide integrify	SELECT SELECT SELECT SPA with 25% at 10% containment, even carried out in accord PA Guidance? systems to remote conta or systems compliant in bo ound structure testing our licence to undertake in tures and pipelines on sits ty testing frequency peric t testing means water tight	role as detailed in your keene ance with fileence requirements are iliment systems tested? th integrity and available volume? integrity testing* on underground e which failed the integrity test are odd	nd are all structures tested  structures e.g. pipelines or s nd all which have not been to pipelines (as required under	bunding and storage guidel  umps etc 7 if yes please fill  sested withing the integrity  your licence)	ines	SELECT  SELECT  SELECT  SELECT  SELECT  SELECT  SELECT		Test date	SELECT	SELECT	CAPARISANCE SO WOLD	SELECT	To reces	re
Capachy required should com Has integrify testing by Has integrify testing by Are channels/transfer Are channels/transfer Pipeline/undergn Are you required by yu all underground struc Please provide integrify	SELECT SELECT SELECT SPA with 25% at 10% containment, even carried out in accord PA Guidance? systems to remote conta or systems compliant in bo ound structure testing our licence to undertake in tures and pipelines on sits ty testing frequency peric t testing means water tight	role as detailed in your keene ance with fileence requirements are iliment systems tested? th integrity and available volume? integrity testing* on underground e which failed the integrity test are odd	structures e.g. pipelines or s ad all which have not been to pipelines (as required under ntegrity test  Does this structure have	bunding and storage guidel  umps etc ? if yes please fill  sted withing the integrity  your licence)  Type of secondary	ines	SELECT  SELECT  SELECT  SELECT  SELECT  SELECT  SELECT		Integrity test failure explanation	SELECT	SELECT	Results of retest[if in current	SELECT	ion recess	re
Capacity required should com tas integrity testing in line with 85007/El Ver channels/transfer Are channels/transfer Pipeline/undergr Are you required by y Il underground struc Please provide integrity	SELECT SELECT SELECT SELECT SPECIAL SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT SYSTEMS TO TION containment seen Carried out in accord respective to remote conta r systems to remote conta r systems to remote conta r systems compliant in bo ound structure testing our licence to undertake i tures and pipelines on sit tures and pipelines on sit ty testing frequency periot testing means water tigh e B2: Summary details of j  Type system	nule as detailed in your licence ance with licence requirements ar inment systems tested? th integrity and available volume? integrity testing* on underground e which failed the integrity test ar ad integrity testing for process and foul pipeline/underground structures in Material of construction:	structures e.g. pipelines or s ad all which have not been to pipelines (as required under ntegrity test  Does this structure have Secondary containment?	bunding and storage guidel  umps etc ? if yes please fill  ssted withing the integrity  your licence)  Type of secondary  containment	ines  I out table 2 below listing test period as specified  Type integrity testing	SELECT  SELECT  SELECT  SELECT  SELECT  SELECT  SELECT  Integrity reports maintained on site?	Commentary  Results of test	Integrity test	SELECT	SELECT	Results of retest(if in current reporting year)	SELECT	To rees	re
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Capacity required should com- task integrity testing by in line with BSS007/Ei re channels/transfer Are channels/transfer Are channels/transfer Pipeline/undergr Are you required by yy all underground struc- 'elease provide integrify please note integrify Table	SELECT SELECT SELECT SELECT SPECIAL SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT SYSTEMS TO TION containment seen Carried out in accord respective to remote conta r systems to remote conta r systems to remote conta r systems compliant in bo ound structure testing our licence to undertake i tures and pipelines on sit tures and pipelines on sit ty testing frequency periot testing means water tigh e B2: Summary details of j  Type system	nule as detailed in your licence ance with licence requirements ar inment systems tested? th integrity and available volume? integrity testing* on underground e which failed the integrity test ar ad integrity testing for process and foul pipeline/underground structures in Material of construction:	structures e.g. pipelines or s ad all which have not been to pipelines (as required under ntegrity test  Does this structure have Secondary containment?	bunding and storage guidel  umps etc ? if yes please fill  ssted withing the integrity  your licence)  Type of secondary  containment	ines  I out table 2 below listing test period as specified  Type integrity testing	SELECT  SELECT  SELECT  SELECT  SELECT  SELECT  SELECT  Integrity reports maintained on site?	Commentary  Results of test	Integrity test failure explanation	SELECT SELECT  Corrective action	SELECT SELECT SELECT	Results of retest(if in current reporting year)	SELECT	NO PERSONAL PROPERTY OF THE PERSONAL PROPERTY	
Capachy required should from as integrity testing is in line with BSS007/EI re channels/transfer re channels/transfer re channels/transfer re channels/transfer pipeline/undergr.  Pipeline/undergr.  re you required by yi underground structure assessment of the control of the c	SELECT SELECT SELECT SELECT SPECIAL SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT SYSTEMS TO TION containment seen Carried out in accord respective to remote conta r systems to remote conta r systems to remote conta r systems compliant in bo ound structure testing our licence to undertake i tures and pipelines on sit tures and pipelines on sit ty testing frequency periot testing means water tigh e B2: Summary details of j  Type system	integrity testing* on underground ewhich failed the integrity testing of underground structures in the state of the integrity and available volume?  Integrity testing* on underground ewhich failed the integrity test and the integrity test and the integrity testing for process and foul pipeline/underground structures in the integrity testing for process and foul pipeline/underground structures in the integrity testing for process and foul pipeline/underground structures in the integrity testing for process and foul pipeline/underground structures in the integrity that the integ	structures e.g. pipelines or s ad all which have not been to pipelines (as required under ntegrity test  Does this structure have Secondary containment?	bunding and storage guidel  umps etc ? If yes please fill ssted withing the integrity your licence)  Type of secondary containment  SELECT	out table 2 below listing test period as specified  Type integrity testing  SELECT	SELECT  SELECT	Commentary  Results of test	Integrity test failure explanation	SELECT SELECT  Corrective action	SELECT SELECT SELECT	Results of retest(if in current reporting year)	SELECT	TO TELES	

		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
2 Are you required to carry out soil monitoring as part of your licence requirements?	no		interpretation box below or if you require additional space please
<sup>3</sup> Do you extract groundwater for use on site? If yes please specify use in comment section	no		include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER
Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward  4 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.  The provided Households assessment contents and upward monitoring template	yes		
answer questions 3-12 below.	yes	Leachate from closed landfill	
5		appears to be contributing to	
Is the contamination related to operations at the facility (either current and/or historic)	yes	ammonia levels in groundwater.	The levels of pH, conductivity, cadium, chromium, copper, lead,
6	,	Installation of active pumping	mercury, nickel, sodium, sulphate and total phosphorus are all within
Have actions been taken to address contamination issues?If yes please summarise		system will not allow leachate to	the guidelines set out for groundwater.
remediation strategies proposed/undertaken for the site	yes	build up and stagnate.	Ammonia was
7 Please specify the proposed time frame for the remediation strategy	N/A		the only groundwater parameter with levels exceeding the guideline
8 Is there a licence condition to carry out/update ELRA for the site?	no		limits at the following sampling locations; GW2, GW4, GW6 and RC01.
9 Has any type of risk assesment been carried out for the site?	yes	Groundwater Risk Assessment	However, the overall mean ammonia value was within the guideline
10 Has a Conceptual Site Model been developed for the site?	yes		limits. The ammonia levels exceeded the limits both up and
11 Have potential receptors been identified on and off site?	yes		downgradient of the site; with increased levels recorded in the wells
		Landfill appears to be contributing	downgradient, which is consistent with previous trends. The wells up
12			gradient of the site with elevated ammonia concentrations indicate that
Is there evidence that contamination is migrating offsite?	yes	groundwater downgradient of the landfill.	a local source of ammonia is contributing to groundwater in the area.

### **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**	Upward trend in pollutant concentration over last 5 years of monitoring data
07/12/2016	CM2	Amamania	Commotont Lob	Diamoually	0.151	0.151	m a //	0.065-0.175	ICV	
07/12/2016	GW2	Ammonia	Competent Lab	Biannually			mg/l	0.005-0.175		no
08/12/2016	GW2	Conductivity	Competent Lab	Biannually	816	816	μS/cm	800-1875	IGV	no
		Dissolveed			10.12	10.12				
07/12/2016	GW2	Oxygen	Competent Lab	Biannually			mg/l		IGV	no
07/12/2016	GW2	pH	Competent Lab	Biannually	7.16	7.16	pH Units		IGV	no
09/12/2016	GW2	Cadmium	Competent Lab	Annually	<0.1	<0.1	ug/l	3.75	IGV	no
09/12/2016	GW2	Chromium	Competent Lab	Annually	<1	<1	ug/l	37.5	IGV	no
09/12/2016	GW2	Copper	Competent Lab	Annually	<0.003	< 0.003	mg/l	1500	IGV	no
09/12/2016	GW2	Iron	Competent Lab	Annually	<20	<20	ug/l		IGV	no
09/12/2016	GW2	Lead	Competent Lab	Annually	<0.3	<0.3	ug/l	18.8	IGV	no
09/12/2016	GW2	Magnesium	Competent Lab	Annually	15.9	15.9	mg/l		IGV	no
09/12/2016	GW2	Manganese	Competent Lab	Annually	62	62	ug/l		IGV	no
09/12/2016	GW2	Mercury	Competent Lab	Annually	<0.02	<0.02	ug/l	0.75	IGV	no
09/12/2016	GW2	Nickel	Competent Lab	Annually	7	7	ug/l	15	IGV	no

Groundwate	er/Soil mo	nitoring temp	late		Lic No: W0073			Year	Year 2016		
12/12/2016	GW2	Potassium	Competent Lab	Annually	6.28	6.28	mg/l		IGV	no	
07/12/2016	GW2	Sodium	Competent Lab	Annually	19.96	19.96	mg/l	150	IGV	no	
07/12/2016	GW2	Sulphate	Competent Lab	Annually	26.95	26.95	mg/l	187.5	IGV	no	
07/12/2016	GW2	Temperature	Competent Lab	Biannually	16	16	Degrees C		IGV	no	
		Total			<0.01	<0.01					
09/12/2016	GW2	Phosphorus		Annually			mg/l	35	IGV	no	
09/12/206	GW2	Zinc	Competent Lab	Annually	8.2	8.2	ug/I		IGV	no	

<sup>.+</sup> where average indicates arithmetic mean

supply) standards Values (IGV)

Groundwater/Soil monitoring template Lic No: W0073 Year

.++ 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		Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
07/12/2016	GW6	Ammonia	Competent Lab	Biannually	3.33	3 33	mg/l	0.065-0.175	IGV	no
08/12/2016	GW6	Conductivity		Biannually	835		μS/cm	800-1875	IGV	no
,,		Dissolveed			10.06	10.06				
07/12/2016	GW6	Oxygen	Competent Lab	Biannually			mg/l		IGV	no
07/12/2016	GW6	рН	Competent Lab	Biannually	7.04	7.04	pH Units		IGV	no
09/12/2016	GW6	Cadmium	Competent Lab	Annually	<0.1	<0.1	ug/l	3.75	IGV	no
09/12/2016	GW6	Chromium	Competent Lab	Annually	<1	<1	ug/l	37.5	IGV	no
09/12/2016	GW6	Copper	Competent Lab	Annually	< 0.003	< 0.003	ug/l	1500	IGV	no
09/12/2016	GW6	Iron	Competent Lab	Annually	900	900	ug/l		IGV	no
09/12/2016	GW6	Lead	Competent Lab	Annually	<0.3	<0.3	ug/l	18.8	IGV	no
09/12/2016	GW6	Magnesium	Competent Lab	Annually	13.4	13.4	mg/l		IGV	no
09/12/2016	GW6	Manganese	Competent Lab	Annually	110	110	ug/l		IGV	no
09/12/2016	GW6	Mercury	Competent Lab	Annually	<0.02	<0.02	ug/l	0.75	IGV	no
09/12/2016	GW6	Nickel	Competent Lab	Annually	1.9	1.9	ug/l	15	IGV	no
12/12/2016	GW6	Potassium	Competent Lab	Annually	1.67	1.67	mg/l		IGV	no
07/12/2016	GW6	Sodium	Competent Lab	Annually	15.96			150	IGV	no
07/12/2016	GW6	Sulphate	Competent Lab	Annually	10.67	10.67	mg/l	187.5	IGV	no
15/12/2016	GW6	Suspended Solids	Competent Lab	Annually	9	9	mg/l		IGV	no
07/12/2016	GW6	Temperature	Competent Lab	Biannually	16	16	Degrees C		IGV	no
		Total			0.06	0.06				
07/12/2016	GW6	Phosphorus	Competent Lab	Annually			mg/l	35	IGV	no
09/12/2016	GW6	Zinc	Competent Lab	Annually	3.3	3.3	ug/l		IGV	no
							CELECT			CELECT
							SELECT			SELECT

\*please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the GroundwaterMonitoring 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** 

2016

ore 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

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

\*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 regulations (private supply)
water EQS GTV's standards

### Table 3: Soil results

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

Groundwater/Soil monitoring template	Lic No:	W0073	Year	2016	

Environmental Liabilities template	Lic No:	W0073	Year	2016
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Click here to access EPA guidance on Environmental Liabilities and Financial provision

#### Commentary

	_		Commentary
1	ELRA initial agreement status	Not Required	The licensee has established and maintains a fund/written guarantee that is adequate to assure the Agency that the licensee is at all times capable of implementing the Restoration and Aftercare Plan required by Condition 8.1
2	ELRA review status	SELECT	
3	Amount of Financial Provision cover required as determined by the latest ELRA	Specify	
4	Financial Provision for ELRA status	SELECT	
5	Financial Provision for ELRA - amount of cover	Specify	
6	Financial Provision for ELRA - type	SELECT	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	SELECT	
9	Closure plan review status	SELECT	
10	Financial Provision for Closure status	SELECT	
11	Financial Provision for Closure - amount of cover	Specify	
12	Financial Provision for Closure - type	SELECT	
13_	Financial provision for Closure expiry date	Enter expiry date	

	<b>Environmental Management Programme/Continuous Improvement Programm</b>	Lic No:	W0073	Year		
	Highlighted cells contain dropdown menu click to view		Additional Informati	on	-	
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	A revised Environme was issued in Decem	ental Management Plan (EMP) for the facility ober 2004.		
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				
	Do you maintain an environmental documentation/communication system to inform the public on			oscommon County Council website: moncoco.ie/en/Services/Environment/Waste		
4	environmental performance of the facility, as required by the licence	Yes	_Manag	ement,_Disposal_and_Recycling/		

Environmental Management Programme (EMP) report									
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes				
SELECT		SELECT		SELECT	SELECT				
SELECT		SELECT		SELECT	SELECT				
SELECT		SELECT		SELECT	SELECT				

	N	oise monitor	ing summary	/ report			Lic No:	W0073	Year	2016	
	Vas noise monitoring a licence requirement for the AER period?  Yes please fill in table N1 noise summary below								]		
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? <a href="mailto:note">note</a>						of the	Noise Guidance note NG4	SELECT			
•	e have a noise r	•						SELECT			
4 When was th	e noise reduction	on plan last upda	ted?					Enter date	<u> </u>		
Have there	Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since to noise survey?					nce the last	SELECT				
Table N1: No	ise monitoring	summary	I						1	I	1
Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	$LA_{eq}$	LA <sub>90</sub>	LA <sub>10</sub>	LA <sub>max</sub>	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site</u> compliant with noise limits (day/evening/night)?
								SELECT	SELECT		SELECT
		1									
*Please ensure th:	I at a tonal analysis has	been carried out as pe	r guidance note NG4	These records mu	st be maintained	d onsite for fut	re inspection				
ricase ensure en	at a tonar anarysis nas	been carried out as pe	· gardance note we n	mese records ma	x be mameanice	a onsite for face	ine inspection				
	If nois	se limits exceede	d as a result of n	oise attribut	ced to site a	ctivities, ple	ease choose tl	ne corrective action fro	om the following options?	SELECT	

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

Any additional comments? (less than 200 words)

R	Resource l	Jsage/	Energy eff	iciency summary	Lic No:	W0073	Year	2010

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

SEAI - Large Industry Energy Network (LIEN)

Is the site a member of any accredited programmes for reducing energy usage/water conservation

2 such as the SEAI programme linked to the right? If yes please list them in additional information

Network

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
	Enter date of audit	
<u>'</u>	SELECT	
е		
	SELECT	

Table R1 Energy usag	e on site			
Energy Use	Previous year		Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	6.85MWHrs	10.68 MWHrs		
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	6.85MWHrs	10.68 MWHrs	N/A	N/A
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
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	Table R2 Water usage on site				Water Emissions	Water Consumption	
	Water extracted	Water extracted		consumption if it	Volume Discharged back to	Volume used i.e not discharged to environment e.g. released as steam	
Water use	Previous year m3/yr.	Current year m3/yr.	reporting year**	production*	environment(m³yr):	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.

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

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

Resourc	esource Usage/Energy efficiency summary				Lic No:	W0073		Year	2016
	Table R4: Energy Au	dit finding recommenda	tions						
	Date of audit		Description of Measures proposed		Predicted energy savings %	Implementation date	Responsibility		Status and comments
				SELECT					
				SELECT					
				SELECT					

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

	Unit ID	Unit ID	Unit ID	Unit ID	Station Total
Technology					
Primary Fuel					
Thermal Efficiency					
Unit Date of Commission					
Total Starts for year					
Total Running Time					
Total Electricity Generated (GWH)					
House Load (GWH)					
KWH per Litre of Process Water					
KWH per Litre of Total Water used or	Site				

Complaints and Incidents summary template		Lic No:	W0073	Year	2016	
Complaints						
		Additional information	ation			
Have you received any environmental complaints in the current reporting year? If yes please complete						
summary details of complaints received on site in table 1 helow	No					

Table	1 Complaints summary					
Date	Category	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							
		Additional informatio						
	Have any incidents occurred on site in the current reporting year? Please list all incidents for current							
ı	year in Table 2 below	No						
	*For information on how to report and what							

year
Total number of
incidents previous
year
% reduction/
increase

Table 2 Incidents sur	mmary													
			Incident			Other	Activity in				Preventative			
			category*please refer to			cause(please	progress at time			Corrective action<20	action <20		Resolution	Likelihood of
Date of occurrence	Incident nature	Location of occurrence	guidance	Receptor	Cause of incident	specify)	of incident	Communication	Occurrence	words	words	Resolution status	date	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														

					Lic No:	W0073		Year	2016		
ECTION A-PRTR ON	SITE WASTE TREATMENT AND V	WASTE TRANSFERS TAB-	TO BE COMPLETED B	Y ALL IPPC AND WA	STE FACILITIES	PRTR facility logon	<u>L</u>	dropdown l	ist click to see options		
ECTION B- WASTE	ACCEPTED ONTO SITE-TO BE CO	MPLETED BY ALL IPPC AN	D WASTE FACILITIES			]	Additional Information				
/ere any wastes <u>accepted</u> be captured through PR	onto your site for recovery or disposal or TR reporting)	treatment prior to recovery or d	isposal within the boundari	es of your facility ?; (wast	e generated within your boundaries is	No	Landfill closed in 2001				
yes please enter details	n table 1 below							Т			
id your site have any reje	cted consignments of waste in the current	t reporting year? If yes please giv	e a brief explanation in the	additional information		No	Landfill closed in 2001				
	aste accepted onto your site that was gene waste accepted onto your si					No as those wi	Landfill closed in 2001	wour DDTP work	hook)		
icenced annual tonnage	EWC code	Source of waste accepted	Description of waste	Quantity of waste	Quantity of waste accepted in	Reduction/	Reason for reduction/ increase	Packaging Content (%)-	Disposal/Recovery or	Quantity of	Comme
limit for your site (total tonnes/annum)			accepted Please enter an accurate and detailed description - which applies to relevant EWC code	accepted in current reporting year (tonnes)	previous reporting year (tonnes)	Increase over previous year +/ - %	from previous reporting year	only applies if the waste has a packaging component	treatment operation carried out at your site and the description of this operation	waste remaining on site at the end of reporting year (tonnes)	
	European Waste Catalogue EWC codes		European Waste Catalogue EWC codes								
efer to PRTR for Recycling	Centre waste data										
	IMPLETED BY ALL WASTE FACILE  structure as required by your licence and	•	•		•	N/A	N	Io waste processing on sit	e		
all waste processing infra		approved by the Agency in place	? If no please list waste pro	ocessing infrastructure req	uired onsite		N	Io waste processing on sit.	e		
all waste processing infra all waste storage infrastr	structure as required by your licence and ucture as required by your licence and apply the control of the contr	approved by the Agency in place proved by the Agency in place? If	? If no please list waste pro	ocessing infrastructure req	uired onsite	N/A Yes	N		e		
all waste processing infra all waste storage infrastr oes your facility have rele o you have an odour mar	sstructure as required by your licence and ucture as required by your licence and api evant nuisance controls in place? agement system in place for your facility?	approved by the Agency in place proved by the Agency in place? If	? If no please list waste pro	ocessing infrastructure req	uired onsite	N/A Yes Yes No	N	io waste processing on sit	e		
all waste processing infra all waste storage infrastr ioes your facility have rele to you have an odour man to you maintain a sludge r	ustructure as required by your licence and ucture as required by your licence and app evant nuisance controls in place? agement system in place for your facility! egister on site?	approved by the Agency in place? If no why?	? If no please list waste pro	ocessing infrastructure req	uired onsite	N/A Yes	A		e		
all waste processing infra- all waste storage infrastr oes your facility have rele o you have an odour mar o you maintain a sludge r  ECTION D-TO BE CO	ustructure as required by your licence and ucture as required by your licence and apply and ruisance controls in place? Lagement system in place for your facility; Lagement system of place for your facility; Lagement System of place for your facility; Lagement System of the control of the c	approved by the Agency in place? If no why?	? If no please list waste pro	ocessing infrastructure req	uired onsite	N/A Yes Yes No	N.		e		
s all waste processing infrastr s all waste storage infrastr loos your facility have rele loo you have an odour man loo you maintain a sludge r SECTION D-TO BE CO Table 2 Waste type a	ucture as required by your licence and apply the state of	approved by the Agency in place? If no why?  NLY  Actual intake for disposal in	ro please list waste profine please list waste storage from the storage fr	ocessing infrastructure req	uired onsite	N/A Yes Yes No	N.		e		
all waste processing infrastr all waste storage infrastr ooes your facility have rele to you have an odour man o you maintain a sludge r ECTION D-TO BE CO able 2 Waste type a	ustructure as required by your licence and ucture as required by your licence and application of the second of the	approved by the Agency in place? If no why?	e? If no please list waste profine please list waste storage to the storage representation of th	e infrastructure required of	uired onsite	N/A Yes Yes No			e		
all waste processing infra- sall waste storage infrastr loes your facility have rele to you have an odour man to you maintain a sludge r CECTION D-TO BE CO Table 2 Waste type of	ucture as required by your licence and apply the state of	approved by the Agency in place? If no why?  NLY  Actual intake for disposal in	ro please list waste profine please list waste storage from the storage fr	e infrastructure required of	uired onsite	N/A Yes Yes No	N.		e		
s all waste processing infrastr s all waste storage infrastr booes your facility have rele bo you have an odour man bo you maintain a sludge r SECTION D-TO BE CC Fable 2 Waste type :	ucture as required by your licence and apply the state of	approved by the Agency in place? If no why?  NLY  Actual intake for disposal in	ro please list waste profine please list waste storage from the storage fr	e infrastructure required of	uired onsite	N/A Yes Yes No	N.		e		

Public

Non Hazardous

N/A

Dec-01 No

Landfill

Pre 1980

SELECT UNIT

WASTE SUMMARY					Lic No:	W0073		Year	2016
Table 4 Environmental monitoring-landfill only Landfill Manual-Monitoring Standards						*	•		
	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	standard in reporting		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, biannual in						
Yes	Yes, biannual in agreement with EPA	agreement with EPA	agreement with EPA	No	Yes	No	No		
.+ please refer to Landfill N	Manual linked above for relevant Landfill D	irective monitoring standards						•	•
Table 5 Capping-Landfill only									

4	A			Area with waste that		
Area uncapped*	Area with temporary cap			should be permanently		
SELECT UNIT	SELECT UNIT	Area with final cap to LD		capped to date under		
SELECT UNIT	SELECT UNIT	Standard m2 ha, a	Area capped other	licence	What materials are used in the cap	Comments
0		Entire Lanfill			GCL, 1m of topsoil and subsoil	

<sup>\*</sup>please note this includes daily cover area

### Table 6 Leachate-Landfill only

9 Is leachate from your site treated in a Waste Water Treatment Plant?
10 Is leachate released to surface water? If yes please complete leachate mass load information below

Volume of leachate in reporting year(m3)		( )	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum		Specify type of leachate treatment	Comments
10968	69.756	588.542	438.61032	985.475	None	N/A	

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

Table 7 Landfill Gas-Landfill only

			Was surface emissions	
			monitoring performed	
Gas Captured&Treated by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	during the reporting year?	Comments
38,953	No	N/a	No	

Unlined are	Unlined area	
ha		
	C 1	



# **Guidance to completing the PRTR workbook**

# **PRTR Returns Workbook**

	Version 1.1.19
REFERENCE YEAR	2016

# 1. FACILITY IDENTIFICATION

, (3.2 1.2 1.3 1.3 1.3	
Parent Company Name	Roscommon County Council
Facility Name	Roscommon Landfill Facility
PRTR Identification Number	W0073
Licence Number	W0073-01

## Classes of Activity

Clacce of 7 territy	
No.	class_name
-	Refer to PRTR class activities below

Address 1	Killarney Townland
Address 2	
Address 3	
Address 4	
	Roscommon
Country	
Coordinates of Location	
River Basin District	IEGBNISH
NACE Code	
	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Kieran Madden
AER Returns Contact Email Address	
AER Returns Contact Position	
AER Returns Contact Telephone Number	090 6637185

AER Returns Contact Mobile Phone Number	087 2486721
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
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
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

#### SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

		A TOESTON OF ESTITO THE TOESTON TO										
		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			
					Landfill Gas Survey and							
0	1	Methane (CH4)	С	OTH	GasSim	6340.0	0 6340.0	0.0	0.0			
					Landfill Gas Survey and							
0:	3	Carbon dioxide (CO2)	С	OTH	GasSim	14732.0	0 14732.0	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

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

<sup>\*</sup> 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 fulcals (NG) or Section A Section specific PRTR pollutants above. Please complete the table below:

Link to previous years emissions data

Landfill: Roscommon Landfill Facility

Please enter summary data on the quantities of methane flared and / or utilised			Meti	nod Used		
				Designation or	Facility Total Capacity m3	
	T (Total) kg/Year	M/C/E	Method Code	Description	per hour	
Total estimated methane generation (as per						
site model)		С	OTH	Gassim 2.5	N/A	
Methane flared	26211.0	С	OTH	Landfill Gas Survey		(Total Flaring Capacity)
Methane utilised in engine/s					0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section A						
above)	6340.0	С	OTH	Gassim and Landfill Gas Sur	N/A	

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

		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	1.0	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

	RELEASES TO WATERS	Please enter all quantities in this section in KGs								
POLLUTANT										
				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		
					0.1	) )	0 00	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							
PC									
				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 (	1.0 0.0	0.0	

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

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data
| PRTR#: W0073 | Facility Name: Roscommon Landfill Facility | Filename: MGE0016RP0060\_PRT 03/04/2017 12:07

### SECTION A : PRTR POLLUTANTS

	OFFSITE TRANSFER OF POLLUTANTS [	ESTINED FOR WASTE-WATER TREATMENT OR	R SEWER	₹		Please enter all quantities in this section in KGs					
	POLLUTANT			METHO	D	QUANTITY					
			Method Used								
No. Annex II	Name	M/C/E	Meth	hod 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		
						0.0	0.0	0.0	0.0		
						0.0	0.0	0.0	0.0		
						0.0	0.0	0.0	0.0		
						0.0	0.0	0.0	0.0		
						0.0	0.0	0.0	0.0		
						0.0	0.0	0.0	0.0		
						0.0	0.0	0.0	0.0		
						0.0	0.0	0.0	0.0		

<sup>\*</sup> 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 DESTIN	Please enter all quantities in this section in KGs							
	POLLUTANT		METH	OD	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	
					0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0	

<sup>\*</sup> 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

| PRTR# : W0073 | Facility Name : Roscommon Landfill Facility | Filename : MGE0016RP0060\_PRTR.xls | Return Year : 2016 |

03/04/2017 12:07

#### **SECTION A: PRTR POLLUTANTS**

	RELEASES TO LAND				Please enter all quantities		
POLLUTANT			METH	OD			QUANTITY
			Me	ethod Used			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	(	0.0

<sup>\*</sup> 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)

CECTION B. REMAINING TO EECTANT EMICOTON (as required in your electric)										
	RELEASES TO LAND	Please enter all quantities in this section in KGs								
PO		METHO	D		C	QUANTITY				
		Method Used								
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	Α	A (Accidental) KG/Year		
					0.0		0.0	0.0		

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

			Please enter	all quantities on this sheet in Tonnes								10
									Haz Waste : Name and Licence/Permit No of Next			
									Destination Facility Non	Haz Waste : Address of Next	Name and License / Permit No. and	
			Quantity						Haz Waste: Name and	Destination Facility	Address of Final Recoverer /	Actual Address of Final Destination
			(Tonnes per						Licence/Permit No of	Non Haz Waste: Address of	Disposer (HAZARDOUS WASTE	i.e. Final Recovery / Disposal Site
			Year)				Method Used		Recover/Disposer	Recover/Disposer	ONLY)	(HAZARDOUS WASTE ONLY)
					Waste							
T	European Waste Code	Hazardous		Description of Waste	Treatment Operation	M/C/E	Method Used	Location of Treatment				
Transfer Destination	Code	nazardous		Description of waste	Operation	IVI/C/E	wethod Osed	пеашеп		Carrowbrowne.Headford		
Within the Country	15 01 02	No	0.41	aeroboard	R5	М	Weighed	Offeite in Ireland	Barna Waste,W0106-02	Road, Galway,,Ireland		
within the Country	13 01 02	140	0.41	aeioboaid	11.5	IVI	Weighted	Olisite III II eland	Dama waste, wo roo-oz	Carrowbrowne, Headford		
Within the Country	15 01 06	No	49,443	mixed packaging	R4	M	Weighed	Offsite in Ireland	Barna Waste.W0106-02	Road, Galway,,Ireland		
,				landfill leachate other than those mentioned					Roscommon Wastewater			
Within the Country	19 07 03	No	3873.0	in 19 07 02	D8	M	Weighed	Offsite in Ireland	Treatment Plant,"."	".",".",Roscommon,".",Ireland		
•				cardboard, newspaper, glossy magazines,			· ·			Carrowbrowne, Headford		
Within the Country	20 01 01	No	200.441	milk cartons	R3	M	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Road, Galway, ., Ireland		
										52 Creagh		
										Road,Toomebridge,Co.		
										Antrim,BT41 3SE,United		
To Other Countries	20 01 02	No	33.825	glass	R5	M	Weighed	Abroad	Glassdon Recycling,.	Kingdom		
										Glen Abbey Complex /		
										Carrowbrowne,Belgard Road		
									Textile Recycling Ltd./Barna	Tallaght / Headford Road.Dublin 24 /		
Within the Country	20.04.44	No	7 10	textiles	R3	М	Weighed	Officito in Iroland	Waste.W0106-02	Galway,,,Ireland		
within the Country	20 01 11	NO	7.12	textiles	N3	IVI	vveigneu	Olisite III lielaliu	Waste, W0100-02		ATM (Afvalstoffen Terminal	
											Moerdijk	
											B.V.),09U001775,Vlasweg	
									Indaver / Barna			Vlasweg 12, Moerdijk, 4780
									Waste, W0036-02 / W0106-	Headford Road, Dublin /	Moerdijk,PO Box	AA Moerdijk,PO Box
To Other Countries	20 01 27	Yes	5.961	household hazardous	R2	M	Weighed	Abroad	02	Galway,,,Ireland	30,Netherlands	30,Netherlands
				batteries and accumulators included in 16								
				06 01, 16 06 02 or 16 06 03 and unsorted							Enva Ireland,W0184-	
				batteries and accumulators containing these					Enva W0184-01 / WEEE			Portlaoise,".",Co.
Within the Country	20 01 33	Yes	1.549	batteries	R4	M	Weighed	Offsite in Ireland	Ireland,.		Laois,".",Ireland	Laois,".",Ireland
				discarded electrical and electronic						Cappincure Industrial		
				equipment other than those mentioned in 20					KNAK Matal Danielian	Estate, Daingean	Abroad (commercially	
Mithin the Country	20.04.25	Vaa		01 21 and and 20 01 23 containing	D4		Majahad	Offsite in Ireland	KMK Metal Recycling	Road, Tullamore, Co. Offaly, Ireland	sensitive information),".",".",".",".",".","."	
Within the Country	20 01 35	Yes	85.755	hazardous components	R4	M	Weighed	Olisite in Ireland	Ltd., VVO 1 130-03	Carrowbrowne.Headford	IIIIOIIIIauoii <i>j</i> , . , . , . , . , . , .	.,.,.,.
Within the Country	20 01 38	No	34.08	wood other than that mentioned in 20 01 37	R3	М	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Road, Galway,,Ireland		
are country	200100		0-7.00	The state of the s			griod	C.I.Site iii ii cialiu		Carrowbrowne, Headford		
Within the Country	20 01 40	No	27.02	metals	R4	M	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Road, Galway,,Ireland		
		-					3			Carrowbrowne, Headford		
Within the Country	20 03 99	No	252.8	municipal wastes not otherwise specified	R3	M	Weighed	Offsite in Ireland	Barna Waste,W0106-02	Road, Galway,., Ireland		

<sup>\*</sup> Select a row by double-clicking the Description of Waste then click the delete button