Facility Information Summary				
AER Reporting Year	2013			_
Licence Register Number	W0067-02			
Name of site		Rathroee	n Landfill	
Site Location	Killa	la Road, Ba	llina, Co. Mayo	
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.				
			Landfilling to Cell 3 A Rathroeen	Landfill.

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.

Michael Hegarty	29/03/2014
Signature Group/Facility manager	Date
(or nominated, suitably qualified and experienced deputy)	

	AIR-summary template	Lic No:	W0067-02	Year	2013	
	Answer all questions and complete all tables where relevant					
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	No		Additional information		
	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	SELECT				
3	Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? Basic air. monitoring checklist AGN2	SELECT				

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

Emissi referen			Frequency of	ELV in licence or any revision therof	Licence Compliance criteria	Measured value		Compliant with licence limit	Method of analysis	Annual mass	Comments - reason for change in % mass load from previous year if applicable
referen	nec no.			tiitioi			measurement	neenee mine	iviceriod of dilatysis	iodu (kg)	аррисаріс
		SELECT			SELECT		SELECT	SELECT	SELECT		
		SELECT			SELECT		SELECT	SELECT	SELECT		
											1
		SELECT			SELECT		SELECT	SELECT	SELECT		1
		SELECT			SELECT		SELECT	SELECT	SELECT		

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

AIR-summary template		Lic No:	W0067-02	Year	2013	
Continuous Mon	itoring					
4 Does your site carry out continuous air emission	ons monitoring?	SELECT				
	oring data and report the required fields below in Table 3 and relevant Emission Limit Value (ELV)					
Did continuous monitoring equipment experies	nce downtime? If yes please record downtime in table 3 below	SELECT				
	each piece of continuous monitoring equipment? system bypasses? If yes please detail them in table 4 below sions -continuous monitoring	SELECT SELECT				
rand rand rand y of decrage cities						

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

SELECT

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

SELECT

Table A3: Abatement system bypass reporting table

Bypass protocol

Table As. Aba	atement system bypa	ss reporting ta	DIE <u>bypass protocor</u>		
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 t	template				Lic No:	W0067-02		Year	2013
Solvent u	ise and managemen	t on site							
								Π	
Do you have a total	l Emission Limit Value of d	irect and fugitive e	missions on site?	if yes please fill out tables A4 ar	nd A5				
			la i .			7	SELECT		
	ent Management Pla	an Summary	Solvent regulations	Please refer to linked solver complete table 5					
Total VOC Emis	ssion limit value		regulations	complete table 5	and o				
Reporting year	Total solvent input on	Total VOC	Total VOC	Total Emission Limit Value	Compliance	4			
neporting year	site (kg)	emissions to Air		(ELV) in licence or any revision	Compilance				
		from entire site		therof					
					SELECT				
					SELECT				
Table A5: So	olvent Mass Balance	summary				=			
]
	(I) Inputs (kg)				(O) Outputs (kg)				
			I	I- 0	I	T	T		
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.	'	Total emission of Solvent to air (kg)	
		CITIOSIOII III	mater (Ag)		Joine (Ng)	other ways e.g.	onsite an ough	Solvenic to dir (kg)	-
									4
							Total		

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

W0067-02

2013

Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table 1 W2 and W3 below for the current reporting year and answer further questions. If you do not have licenced

emissions you only need to complete table W1 and or W2 for surface water analysis and visual inspections 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

Table W1 Surface water monitoring

	1							1		
Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
SW1	upstream	SELECT	DO	11.4.13		N/A	10.3	% sat	SELECT	
SW1	upstream		Ammonical Nitrogen	11.4.13			0.045	mg/l N		
SW1	upstream		BOD	11.4.13			1	mq/1 02		
SW1	upstream		COD	11.4.13			46	mg/1 02		
SW1	upstream		Chloride	11.4.13			36.5	mg/1 C1		
SW1	upstream		Conductivity	11.4.13			0.623	mS/cm		
SW1	upstream		pH	11.4.13			8	pH units		
SW1	upstream		Total Suspended Solids	11.4.13			4	mg/l		
SW1			Sulphate				47.6			
2001	upstream		Suipnate	11.4.13			47.6	mg/1 SO4		
CIAIA							2 22			
SW1	upstream		DO	27.11.13			6.41	% sat		
SW1	upstream		Ammonical Nitrogen	27.11.13			0.044	mg/l N		
SW1	upstream		BOD	27.11.13			1	mg/1 02		
SW1	upstream		COD	27.11.13			88	mg/1 02		
SW1	upstream		Chloride	27.11.13			34.3	mg/1 Cl		
SW1	upstream		Conductivity	27.11.13			562	mS/cm		
SW1	upstream		pH	27.11.13			7.2	pH units		
SW1	upstream		Total Suspended Solids	27.11.13			6	mg/l		
SW1	upstream		Sulphate	27.11.13			60.4	mg/1 SO4		
								,		
SW1	upstream		DO	13.9.13			8.42	% sat		
SW1	upstream		Ammonical Nitrogen	13.9.13			0.032	mg/l N		
SW1	upstream		BOD	13.9.13			1	mg/1 02		
SW1			COD	13.9.13			10			
SW1	upstream							mg/1 02		
	upstream		Chloride	13.9.13			31.1	mg/1 Cl		
SW1	upstream		Conductivity	13.9.13			0.638	mS/cm		
SW1	upstream		pH	13.9.13			8	pH units		
SW1	upstream		Total Suspended Solids	13.9.13			6	mg/l		
SW1	upstream		Sulphate	13.9.13			55.6	mg/1 SO4		
SW1	upstream		Total Phosphourous	13.9.13			0.09	mg/l P		
SW1	upstream		Orthophosphate	13.9.13				mg/l P		
SW1	upstream		Nitrate	13.9.13						
SW1	upstream		Nitrite	13.9.13						
SW1	upstream		Cadmium	13.9.13			0.5	ug/l		
SW1	upstream		Calcium	13.9.13			119	mg/l		
SW1	upstream		Chromium	13.9.13			0.5	ug/l		
SW1	upstream		Copper	13.9.13			1	ug/1		
SW1	upstream		Iron	13.9.13			416	ug/1		
SW1	upstream		Lead	13.9.13			0.5	ug/1		
SW1					 					
	upstream		Magnesium	13.9.13			8	mg/1		
SW1	upstream		Manganeese	13.9.13			23	ug/l		
SW1	upstream		Mercury	13.9.13			0.1	ug/l		
SW1	upstream		Potassium	13.9.13			8	mg/l		
SW1	upstream			13.9.13						
SW1	upstream		Sodium	13.9.13			19	mg/l		
SW1	upstream		Alkalinity	13.9.13			272	mg/l CaCO3		
SW1	upstream		Total Oxidised Nitrogen	13.9.13				mg/l N		
SW1	upstream		Zinc	13.9.13			5	ug/l		
SW1	upstream		List 1 & 2 Organics	13.9.13			-			
SW1	upstream		Nickel	13.9.13			4	ug/l		
SW1	upstream		Total Ammonia as N	13.9.13			3	mg/l		
SW1	upstream		Boron	13.9.13			43	ug/1		
3441	apstream		BOTOII	13.3.13			43	ug/1		
					l					

R Monitor	ing returns summary to	emplate-WATER/WASTEWATER(SEWER)		Lic No:	W0067-02		Year	2013
SW1	upstream	DO.	1.5.13		8.96	% sat		
SW1	upstream	Ammonical Nitrogen	1.5.13		0.031	mg/1 N		
SW1	upstream	BOD	1.5.13		1	mg/1 N		
SW1	upstream	COD	1.5.13		53	mg/1 02		
SW1	upstream	Chloride	1.5.13		33.8	mg/1 C1		
SW1	upstream	Conductivity	1.5.13		0.59	mS/cm		
SW1			1.5.13		7.5	pH units		
SW1	upstream	pH Total Suspended Solids	1.5.13		5	mg/l		
SW1	upstream	Sulphate	1.5.13		48.5	mg/1 SO4		
3441	upstream	Sulphace	1.3.13		40.3	mg/1 304		
SW2	onsite	DO	27.11.14		6.84	mg/l		
SW2	onsite	Ammonical Nitrogen	27.11.14		0.005	mg/1 N		
SW2	onsite	BOD	27.11.14		1	mg/1 N		
SW2	onsite	COD	27.11.14		82	mg/1 02		
SW2	onsite	Chloride	27.11.14		35.1	mg/1 C1		
SW2	onsite	Conductivity	27.11.14		558	mS/cm		
SW2	onsite	pH	27.11.14		7.4	pH units		
SW2	onsite	Total Suspended Solids	27.11.14		59.7	mg/l		
SW2	onsite	Sulphate	27.11.14		8	mg/1 SO4		
	31131 CC	Surpliace	2/.11.14		0	mg/1 304		
SW2	onsite	DO	13.09.13		8.56	mg/l		
SW2	onsite	Ammonical Nitrogen	13.09.13		5.83	mg/l N		
SW2	onsite	BOD BOD	13.09.13		1	mg/1 N		
SW2	onsite	COD	13.09.13		34	mg/1 02		
SW2	onsite	Chloride	13.09.13		47	mg/1 C1		
SW2	onsite	Conductivity	13.09.13		0.954	mS/cm		
SW2	onsite	pH	13.09.13		7.8	pH units		
SW2	onsite	Total Suspended Solids	13.09.13		8	mg/l		
SW2	onsite	Total Phosphourous	13.09.13		0.06	mg/l P		
SW2	onsite	Orthophosphate	13.09.13		0.00	mg/l P		
SW2	onsite	Nitrate	13.09.13					
SW2	onsite	Nitrite	13.09.13					
SW2	onsite	Cadmium	13.09.13		0.5	ug/l		
SW2	onsite	Calcium	13.09.13		147	mg/l		
SW2	onsite	Chromium	13.09.13		0.7	ug/l		
SW2	onsite	Copper	13.09.13		1	ug/l		
SW2	onsite	Iron	13.09.13		857	ug/l		
SW2	onsite	Lead	13.09.13		0.5	ug/l		
SW2	onsite	Magnesium	13.09.13		17	mg/l		
SW2	onsite	Manganeese	13.09.13		122	ug/l		
SW2	onsite	Mercury	13.09.13		0.1	ug/l		
SW2	onsite	Potassium	13.09.13		15	mg/l		
SW2	onsite	Sulphate	13.09.13		66.4	mg/1 SO4		
SW2	onsite	Sodium	13.09.13		32	mg/1		
SW2	onsite	Alkalinity	13.09.13		435	mg/l CaCO3		
SW2	onsite	Total Oxidised Nitrogen	13.09.13			mg/l N		
SW2	onsite	Zinc	13.09.13		5	ug/1		
SW2	onsite	List 1 & 2 Organics	13.09.13		·	-5,-		
SW2	onsite	Nickel	13.09.13		5	ug/l		
SW2	onsite	Total Ammonia as N	13.09.13			mg/l		
SW2	onsite	Boron	13.09.13		118	mg/1		
SW2	onsite	DO	1.5.13		4.2	mg/l		
SW2	onsite	Ammonical Nitrogen	1.5.13		10.6	mg/l N		
SW2	onsite	BOD	1.5.13		1	mg/1 02		
SW2	onsite	COD	1.5.13		49	mg/1 02		
SW2	onsite	Chloride	1.5.13		42.2	mg/l Cl		
SW2	onsite	Conductivity	1.5.13		0.885	mS/cm		
SW2	onsite	рн	1.5.13		7.7	pH units		
SW2	onsite	Sulphate	1.5.13		43.9	mg/l		
SW2	onsite	Total Suspended Solids	1.5.13		2	mg/1 SO4		
		Joseph Dorrat	0.10		_			
SW2	onsite	DO	11.4.13		8.81	mg/l		
SW2	onsite	Ammonical Nitrogen	11.4.13		0.055	mg/l N		
SW2	onsite	BOD	11.4.13		1	mg/1 02		
SW2	onsite	COD	11.4.13		63	mg/1 02		

vionito	ring returns summary temp	plate-WATER/WASTEWATER(SEWER)		Lic No:	W0067-02		Year	2013
2	onsite	Chloride	11.4.13		32.4	mg/l Cl		
	onsite onsite		11.4.13		0.532	mg/1 C1		
2		Conductivity						
12	onsite	pH	11.4.13		7.6	pH units		
W2	onsite	Total Suspended Solids	11.4.13		41.8	mg/l		
W2	onsite	Sulphate	11.4.13		2	mg/1 SO4		
W3	downstream	DO	27.11.13		6.97	mg/l		
SW3	downstream	Ammonical Nitrogen	27.11.13		0.014	mg/l N		
SW3	downstream	BOD	27.11.13		1	mg/1 02		
SW3	downstream	COD	27.11.13		23	mg/1 02		
SW3	downstream	Chloride	27.11.13		28.7	mg/l Cl		
SW3	downstream	Conductivity	27.11.13		0.755	mS/cm		
SW3	downstream	РH	27.11.13		7.7	pH units		
SW3	downstream	Total Suspended Solids	27.11.13		13	mg/l		
SW3	downstream	Sulphate	27.11.13		50.1	mg/1 SO4		
	downstream	bulphace	27122123		30.2	g/1 001		
* 2			12.00.15					
SW3	downstream	DO	13.09.13		8.61	mg/l		
SW3	downstream	Ammonical Nitrogen	13.09.13		0.173	mg/l N		
SW3	downstream	BOD	13.09.13		1	mg/1 02		
SW3	downstream	COD	13.09.13		27	mg/1 02		
SW3	downstream	Chloride	13.09.13		35.5	mg/l Cl		
SW3	downstream	Conductivity	13.09.13		0.791	mS/cm		
SW3								
	downstream	рН	13.09.13		8.2	pH units		
SW3	downstream	Total Suspended Solids	13.09.13		2	mg/l		
W3	downstream	Sulphate	13.09.13		50.8	mg/1 SO4		
W3	downstream	Total Phosphourous	13.09.13		0.05	mg/l P		
W3	downstream	Orthophosphate	13.09.13			mg/l P		
W3	downstream	Nitrate	13.09.13					
W3	downstream	Nitrite	13.09.13					
W3					0.5	(3		
	downstream	Cadmium	13.09.13		0.5	ug/l		
W3	downstream	Calcium	13.09.13		144	mg/l		
W3	downstream	Chromium	13.09.13		0.6	ug/l		
SW3	downstream	Copper	13.09.13		1	ug/l		
SW3	downstream	Iron	13.09.13		162	ug/l		
SW3	downstream	Lead	13.09.13		0.5	ug/l		
SW3	downstream	Magnesium	13.09.13		14	mg/1		
SW3					9			
	downstream	Manganeese	13.09.13			ug/l		
W3	downstream	Mercury	13.09.13		0.1	ug/l		
W3	downstream	Potassium	13.09.13		10	mg/l		
W3	downstream	Sodium	13.09.13		24	mg/l		
W3	downstream	Alkalinity	13.09.13		344	mg/l CaCO3		
13	downstream	Total Oxidised Nitrogen	13.09.13			mg/l N		
SW3	downstream	Zinc	13.09.13			ug/1		
SW3						ug/1		
W3	downstream	List 1 & 2 Organics	13.09.13					
	downstream	Nickel	13.09.13		4	ug/l		
W3	downstream	Total Ammonia as N	13.09.13			mg/l		
W3	downstream	Boron	13.09.13		78	mg/1 SO4		
13	downstream	DO	1.5.13		8.83	mg/l		
W3	downstream	Ammonical Nitrogen	1.5.13 1.5.13		2	mg/l N		
W3	downstream	BOD	1.5.13		1	mg/1 02		
W3	downstream	COD	1.5.13		27	mg/1 02 mg/1 C1		
W3 W3	downstream downstream	Chloride Conductivity	1.5.13		702	mg/1 C1 mS/cm		
W3	downstream	Hq	1.5.13		8	pH units		
и3	downstream	Total Suspended Solids	1.5.13		4	mq/l		
W3	downstream	Sulphate	1.5.13		30.8	mg/1 SO4		
W3 W3	downstream	DO Namaniaal Nitrogan	11.04.13		7.6	mg/l		
	downstream	Ammonical Nitrogen	11.04.13		7.39	mg/1 N mg/1 02		
W3 W3	downstream downstream	COD	11.04.13		40	mg/1 02 mg/1 02		
SW3	downstream	Chloride	11.04.13		41.2	mg/1 C1		
SW3	downstream	Conductivity	11.04.13		0.839	mS/cm		
SW3	downstream	pH	11.04.13		7.8	pH units		
SW3	downstream	Total Suspended Solids	11.04.13		2	mg/1		
SW3	downstream	Sulphate	11.04.13		41.7	mg/1 SO4		
SW4	downstream	DO	13.9.13		8.67	% sat		
SW4	downstream	Ammonical Nitrogen	13.9.13		5.67	mg/l N		
SW4	downstream	BOD	13.9.13		1	mg/1 02		
SW4 SW4	downstream	COD Chloride	13.9.13 13.9.13		46 46.2	mg/1 02		
11.2	downstream					mg/1 C1		

K IVIONII	oring returns summ	ary template-WATER/WASTEWATER(SEWER)		Lic No:	W0067-02	Year	2013
SW4	downstream	Conductivity	13.9.13		0.955	mS/cm	
SW4	downstream	pH	13.9.13		7.8	pH units	
SW4	downstream	Total Suspended Solids	13.9.13		6	mq/l	
SW4	downstream	Sulphate	13.9.13		66.8	mg/1 SO4	
SW4	downstream	Total Phosphourous	13.9.13		0.05	mg/l P	
SW4	downstream	Orthophosphate	13.9.13			mg/1 P	
SW4	downstream	Nitrate	13.9.13				
W4	downstream	Nitrite	13.9.13				
W4	downstream	Cadmium	13.9.13		0.5	ug/l	
SW4	downstream	Calcium	13.9.13		152	mg/l	
SW4	downstream	Chromium	13.9.13		0.9	ug/l	
SW4 SW4	downstream	Copper	13.9.13 13.9.13		877	ug/l	
SW4	downstream downstream	Iron Lead	13.9.13		0.5	ug/1 ug/1	
SW4	downstream	Magnesium	13.9.13		18	mg/1	
SW4	downstream	Manganeese	13.9.13		127	ug/1	
SW4	downstream	Mercury	13.9.13		0.1	ug/1	
SW4	downstream	Potassium	13.9.13		15	mg/1	
SW4	downstream	Sodium	13.9.13		33	mg/l	
SW4	downstream	Alkalinity	13.9.13		420	mg/1 CaCO3	
SW4	downstream	Total Oxidised Nitrogen	13.9.13			mq/l N	
SW4	downstream	Zinc	13.9.13		5	ug/l	
SW4	downstream	List 1 & 2 Organics	13.9.13				
SW4	downstream	Nickel	13.9.13		5	ug/l	
SW4	downstream	Total Ammonia as N	13.9.13			mg/l	
W4	downstream	boron	13.9.13		121		
SW4	downstream	DO	27.11.13		5.4	% sat	
SW4	downstream	Ammonical Nitrogen	27.11.13		8.56	mg/l N	
SW4	downstream	BOD	27.11.13		1	mg/1 02	
SW4	downstream	COD	27.11.13		40	mg/1 02	
SW4	downstream	Chloride	27.11.13 27.11.13		39.2	mg/1 Cl	
SW4	downstream	Conductivity			0.856	mS/cm	
SW4	downstream	pH	27.11.13		7.2	pH units	
SW4	downstream	Total Suspended Solids	27.11.13		12	mg/l	
SW4	downstream	Sulphate	27.11.13		91.4	mg/1 SO4	
0114	,	DO	11 04 12		0.01		
SW4	downstream		11.04.13		8.91	% sat	
SW4	downstream	Ammonical Nitrogen BOD	11.04.13		8.52	mg/l N	
SW4 SW4	downstream	COD	11.04.13 11.04.13		53	mg/1 02 mg/1 02	
5W4	downstream downstream	Chloride	11.04.13		38.5	mg/1 02 mg/1 C1	
3W4	downstream	Conductivity	11.04.13		0.774	mS/cm	
SW4	downstream	pH	11.04.13		7.4	pH units	
SW4	downstream	Total Suspended Solids	11.04.13		4	mg/1	
SW4	downstream	Sulphate	11.04.13		46	mg/1 SO4	
SW4	GOWIISCIEAM	baiphace	11.04.15		40	111g/1 304	
SW4	downstream	DO	1.5.13		7.7	% sat	
SW4	downstream	Ammonical Nitrogen	1.5.13		7.36	mg/l N	
SW4	downstream	BOD	1.5.13		1	mg/1 02	
SW4	downstream	COD	1.5.13		33	mg/1 02	
SW4	downstream	Chloride	1.5.13		41.1	mg/1 Cl	
SW4	downstream	Conductivity	1.5.13		0.839	mS/cm	
SW4	downstream	Hq	1.5.13		7.8	pH units	
SW4	downstream	Total Suspended Solids	1.5.13		4	mg/l	
W4	downstream	Sulphate	1.5.13		41.7	mg/1 SO4	
W5	downstream	DO	1.5.13		8.91	% sat	
√5	downstream	Ammonical Nitrogen	1.5.13		8.52	mg/l N	
W5	downstream	BOD	1.5.13		1	mg/1 02 mg/1 02	
W5	downstream	COD	1.5.13		53		
W5	downstream	Chloride	1.5.13		38.5	mg/1 Cl	
SW5	downstream	Conductivity	1.5.13		0.774	mS/cm	
SW5	downstream	pH	1.5.13		7.4	pH units	
W5	downstream	Total Suspended Solids	1.5.13		4	mg/1	
15	downstream	Sulphate	1.5.13		46	mg/1 SO4	
W5	downstream	DO	11.04.13		7 7	2 oat	
CV	downstream	Ammonical Nitrogen	11.04.13		7.7	% sat	
SW5 SW5	downstream	Ammonical Nitrogen BOD	11.04.13		1.30	mg/1 N mg/1 O2	
SW5	downstream	COD	11.04.13		33	mg/1 02 mg/1 02	
SW5	downstream	Chloride	11.04.13		41.1	mg/1 02 mg/1 C1	
SW5 SW5	downstream	Conductivity	11.04.13		0.839	mg/1 C1 mS/cm	
SW5	downstream	conductivity pH	11.04.13		7.8	pH units	
SW5	downstream	Total Suspended Solids	11.04.13		4	mg/1	
SW5	downstream	Sulphate	11.04.13		41.7	mg/1 SO4	
UWJ	downscream	outphate	11.07.13		41./	mg/ 1 304	_
:WS	downstream	DO	27.11.13		7.9	% sat	_
SW5 SW5	downstream	Ammonical Nitrogen	27.11.13		0.014	mg/1 N	
SW5	downstream	BOD BOD	27.11.13		0.011	mg/1 02	
SW5	downstream	COD	27.11.13		10	mg/1 02	
SW5	downstream	Chloride	27.11.13		28.6	mg/1 02 mg/1 Cl	_
	downstream	Conductivity	27.11.13		0.754	mS/cm	
SW5	downstream	pH	27.11.13		7.8	pH units	
SW5	downstream	Total Suspended Solids	27.11.13		14	mq/1	
SW5		Sulphate	27.11.13		48.2	mg/1 SO4	
SW5 SW5	downstream					9/1 001	
SW5 SW5 SW5 SW5	downstream	barphace					
SW5 SW5 SW5	downstream	DO			8.67	% sat	
SW5 SW5 SW5	downstream downstream	DO	13.9.13		8.67	% sat	
SW5 SW5 SW5	downstream				8.67 5.67	% sat mg/1 N mg/1 O2	

AER Monito	ring returns su	mmary template-W	ATER/WASTEWATER(SEWER)			Lic No:	W0067-02		Year	2013
SW5	downstream		Chloride	13.9.13			46.2	mg/l Cl		
SW5	downstream		Conductivity	13.9.13			0.955	mS/cm		
SW5	downstream		pH	13.9.13			7.8	pH units		
SW5	downstream		Total Suspended Solids	13.9.13			6	mg/l		
SW5	downstream		Sulphate	13.9.13			66.8	mg/l SO4		
SW5	downstream		Total Phosphourous	13.9.13			0.05	mg/l P		
SW5	downstream		Orthophosphate	13.9.13				mg/l P		
SW5	downstream		Nitrate	13.9.13						
SW5	downstream		Nitrite	13.9.13						
SW5	downstream		Cadmium	13.9.13			0.5	ug/l		
SW5	downstream		Calcium	13.9.13			152	mg/l		
SW5	downstream		Chromium	13.9.13			0.9	ug/l		
SW5	downstream		Copper	13.9.13			1	ug/l		
SW5	downstream		Iron	13.9.13			877	ug/l		
SW5	downstream		Lead	13.9.13			0.5	ug/l		
SW5	downstream		Magnesium	13.9.13			18	mg/l		
SW5	downstream		Manganeese	13.9.13			127	ug/l		
SW5	downstream		Mercury	13.9.13			0.1	ug/l		
SW5	downstream		Potassium	13.9.13			15	mg/l		
SW5	downstream		Sodium	13.9.13			33	mg/l		
SW5	downstream		Alkalinity	13.9.13			420	mg/l CaCO3		
SW5	downstream		Total Oxidised Nitrogen	13.9.13				mg/l N		
SW5	downstream		Zinc	13.9.13			5	ug/l		
SW5	downstream		List 1 & 2 Organics	13.9.13						
SW5	downstream		Nickel	13.9.13			5	ug/l		
SW5	downstream		Total Ammonia as N	13.9.13				mg/l		
SW5	downstream		boron	13.9.13	1		121			
	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 comm Table W3 below		SELECT	Additional information	
	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	Assessment of			
4	require improvement in additional information box	results checklist	SELECT		

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

Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision therof ^{Note 2}	Licence Compliance criteria		Compliant with licence	Method of analysis
SELECT	SELECT	SELECT		SELECT		SELECT	SELECT	SELECT	SELECT

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

Note 2: Where Emission Limit Values (ELV) do not apply to your licence please compare results against EQS for Surface water or relevant receptor quality standards

AER Monitor	ring returns su	ımmary template-W	ATER/WASTEWATER(SEWER)			Lic No:	W0067-02		Year	2013													
			_		•		· ·	•	•	•													
Continuous	monitoring					_	Additional Information		-														
5 Does your site of	carry out continuo	ous emissions to water/sew	ver monitoring?		SELECT																		
						•			_														
Limit Value (ELV		ntinuous monitoring data t	pelow in Table W4 and compare it to its rele	vant Emission																			
Linii value (ELV	'1																						
6 Did continuous	monitoring oquin	mont ovnorionse downtime	e? If yes please record downtime in table W4	l balaur					1														
o Dia continuous i	monitoring equipi	ment expenence downtime	:: ii yes piease record downtime in table wa	+ Delow	SELECT]														
7 Do you have a p	roactive service co	ontract for each piece of co	ontinuous monitoring equipment on site?				·	·															
,			0 4 4		SELECT]														
8 Did abatement s	system bypass occ	cur during the reporting year	ar? If yes please complete table W5 below		SELECT																		
Table W4. Si	ımmarv of av	erage emissions -con	tinuous monitoring		SELECT																		
Tubic W4. 30	anninary or av	cruge cimissions -con	tindous monitoring																				
								% change +/- from															
								previous reporting	Monitoring	Number of ELV													
Emission	Emission		ELV or trigger values in licence or any	Averaging	Compliance	Units of	Annual Emission for current	year	Equipment	exceedences in													
reference no:						measurement	reporting year (kg)		downtime (hours)	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	 	 	When was this report submitted?
			bypass	 EPA?	submitted?
				SELECT	

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

Additional information of the content of the conten	build/Pipeline tes	esting template				Lic No:	W0067-02		Year	201	1				4
Table 1 Section 1 Section 2 Section		_											•		
Section of the control control which the first or to compare proof to control or the control or								Additional information							
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Table 11 Secretary desired programs promotion between testing destinating intervalsing intervals		res on site, in addition to all	I bunds which failed the integrity	y test-all bunding structures w	hich failed including mobi	le bunds must be listed in	Vac								
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yes control and notice broads in contact of the control of the con				austor and foul). Tools summe	and containors? (containor	s refers to "Chemetere"	J years								
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Table 15 control of the broth law deep respond to study and in the regarded study and in the reg							NO	2							
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Bundi Containment Structure ID Type Specify Other t															
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Leachate Lagoon renforced concrete	Bund/Containment											Integrity test failure		Scheduled date	cu
Chemistore band or perfabricated processor pro	structure ID	Туре	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	site?	Results of test	explanation <50 words	Corrective action taken	for retest	rep
**Commentary with 2014 of 13th commentary and activation of the control of the co	Leachate Lagoon	reinforced concrete		Leachate			Hydraulic test		2009	Yes	Pass		SELECT		T
Has integrity testing been carried out in accordance with licence requirements and are all structures tested in leave this structure testing. Are channelly fransfer systems to remote containment systems seated? Are channelly fransfer systems compliant in both integrity and available volume? Pipeline/Junderground 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 Please provide integrity testing frequency period Table 82: Summary details of pipeline/Junderground structures integrity test Type of secondary containment Type integrity testing SELECT	Characterist hand						Oradon de Anna		2000		Dass		CELECT		
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Structure ID Type system Material of construction: Secondary containment? Type integrity testing maintained on site? Results of test <50 words taken for retest reporting year) SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT 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	Capacity required should comb Has integrity testing be line with BS8007/EPA of Are channels/transfer Fipeline/undergre Are you required by yo underground structure Please provide integrity Please provide integrity	mely web 2.5% or LINE contaments or Guidance? rysystems to remote containing rysystems to remote containing rystems compliant in both yound structure testing our licence to undertake into es and pipelines on site which tity testing frequency period	ce with licence requirements and ment systems tested? integrity and available volume? gegity testing on underground str ch falled the integrity test	d are all structures tested in	etc ? if yes please fill out to		SELECT SELECT SELECT SELECT	Commentary		ives	rdss		jacci		
SELECT SE	Capacity required should comb Has integrity testing be line with BS8007/EPA of Are channels/transfer Are channels/transfer Pipeline/undergre Are you required by you underground structure Please provide integrity	mely web 2.5% or LINE contaments or Guidance? rysystems to remote containing rysystems to remote containing rystems compliant in both yound structure testing our licence to undertake into es and pipelines on site which tity testing frequency period	ce with licence requirements and ment systems tested? integrity and available volume? gegity testing on underground str ch falled the integrity test	d are all structures tested in are all structures tested in uctures e.g. pipelines or sump:	etc ? if yes please fill out to		SELECT SELECT SELECT SELECT SELECT SELECT	Commentary	Integrity test			Results of retest(if in current	jacci		
	*Capacity regard shadur class integrity testing be line with BS8007/EPA Are channels/transfer Are channels/transfer Pipeline/undergr Are you required by yo underground structure Please provide integrit Tabl	mely well 25% or LIDIX containment in accordanic Guidance? 7 systems to remote containin rystems to remote containin rystems compliant in both rystems of the rystems of the rystems of the removal of the re	ce with licence requirements and ment systems tested? integrity and available volume? ggrity testing on underground str. ch failed the integrity test sipeline/underground structures in Material of construction:	are all structures tested in uctures e.g. pipelines or sump: integrity test Does this structure have	etc ? if yes please fill out to	able 2 below listing all	SELECT SELECT SELECT SELECT SELECT SELECT SELECT	Results of test	Integrity test failure explanation	Corrective action	Scheduled date	reporting year)	jacci		1
	*Capacity regard shadur class integrity testing be line with BS8007/EPA Are channels/transfer Are channels/transfer Pipeline/undergr Are you required by yo underground structure Please provide integrit Tabl	mely well 25% or LIDIX containment in accordanic Guidance? 7 systems to remote containin rystems to remote containin rystems compliant in both rystems of the rystems of the rystems of the removal of the re	ce with licence requirements and ment systems tested? integrity and available volume? ggrity testing on underground str. ch failed the integrity test sipeline/underground structures in Material of construction:	are all structures tested in tuctures e.g. pipelines or sumpr integrity test Does this structure have Secondary containment?	etc ? if yes please fill out to Type of secondary containment	able 2 below listing all Type integrity testing	SELECT SELECT SELECT SELECT SELECT SELECT Integrity reports maintained on site?	Results of test	Integrity test failure explanation	Corrective action	Scheduled date	reporting year)	jacci		
	*Capacin research shadur capacin fall and the state of the line with BS8007/EPA Are channels/transfer Are channels/transfer Are channels/transfer Pipeline/undergr Are you required by yo underground structure Please provide integrit	mely well 25% or LIDIX containment in accordanic Guidance? 7 systems to remote containin rystems to remote containin rystems compliant in both rystems of the rystems of the rystems of the removal of the re	ce with licence requirements and ment systems tested? integrity and available volume? ggrity testing on underground str. ch failed the integrity test sipeline/underground structures in Material of construction:	are all structures tested in tuctures e.g. pipelines or sumpr integrity test Does this structure have Secondary containment?	etc ? if yes please fill out to Type of secondary containment	able 2 below listing all Type integrity testing	SELECT SELECT SELECT SELECT SELECT SELECT Integrity reports maintained on site?	Results of test	Integrity test failure explanation	Corrective action	Scheduled date	reporting year)	jacci		
	Capacity reward shaded on the Sandary San	mely well 25% or LIDIX containment in accordanic Guidance? 7 systems to remote containin rystems to remote containin rystems compliant in both rystems of the rystems of the rystems of the removal of the re	ce with licence requirements and ment systems tested? integrity and available volume? ggrity testing on underground str. ch failed the integrity test sipeline/underground structures in Material of construction:	are all structures tested in tuctures e.g. pipelines or sumpr integrity test Does this structure have Secondary containment?	etc ? if yes please fill out to Type of secondary containment	able 2 below listing all Type integrity testing	SELECT SELECT SELECT SELECT SELECT SELECT Integrity reports maintained on site?	Results of test	Integrity test failure explanation	Corrective action	Scheduled date	reporting year)	jacci		
	Capaciny research shade the state of th	mely well 25% or LIDIX containment in accordanic Guidance? 7 systems to remote containin rystems to remote containin rystems compliant in both rystems of the rystems of the rystems of the removal of the re	ce with licence requirements and ment systems tested? integrity and available volume? ggrity testing on underground str. ch failed the integrity test sipeline/underground structures in Material of construction:	are all structures tested in tuctures e.g. pipelines or sumpr integrity test Does this structure have Secondary containment?	etc ? if yes please fill out to Type of secondary containment	able 2 below listing all Type integrity testing	SELECT SELECT SELECT SELECT SELECT SELECT Integrity reports maintained on site?	Results of test	Integrity test failure explanation	Corrective action	Scheduled date	reporting year)	jacci		
	*Capacity regard shadur class integrity testing be line with BS8007/EPA Are channels/transfer Are channels/transfer Pipeline/undergr Are you required by yo underground structure Please provide integrit Tabl	mely well 25% or LIDIX containment in accordanic Guidance? 7 systems to remote containin rystems to remote containin rystems compliant in both rystems of the rystems of the rystems of the removal of the re	ce with licence requirements and ment systems tested? integrity and available volume? ggrity testing on underground str. ch failed the integrity test sipeline/underground structures in Material of construction:	are all structures tested in tuctures e.g. pipelines or sumpr integrity test Does this structure have Secondary containment?	etc ? if yes please fill out to Type of secondary containment	able 2 below listing all Type integrity testing	SELECT SELECT SELECT SELECT SELECT SELECT Integrity reports maintained on site?	Results of test	Integrity test failure explanation	Corrective action	Scheduled date	reporting year)	jacci		

Groundwater/Soil monitoring template Lic No: W0067-02 Year 2013

- $\ensuremath{^{1}}$ Are you required to carry out groundwater monitoring as part of your licence requirements?
- 2 Are you required to carry out soil monitoring as part of your licence requirements?
- $^{\mbox{\footnotesize 3}}$ Do you extract groundwater for use on site? If yes please specify use in comment section
- $^{\rm 4}$ Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12
- 5 Is the contamination related to operations at the facility (either current and/or historic)
- 6 Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site
- 7 Please specify the proposed time frame for the remediation strategy
- 8 Is there a licence condition to carry out/update ELRA for the site?
- 9 Has any type of risk assesment been carried out for the site?
- 10 Has a Conceptual Site Model been developed for the site?
- 11 Have potential receptors been identified on and off site?
- 12 Is there evidence that contamination is migrating offsite?

	Comments
yes	
no	
no	
no	
SELECT	
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*	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
			accredited							
	MW2	D.O.	laboratory	Q	4.56	3.1	mg/l			
			accredited							
	MW2	pH	laboratory	Q	7.3	7.17				
			accredited							
	MW2	Conductivity	laboratory	Q	0.992	0.88	mS/cm			
			accredited							
	MW2	Ammonical Nitrogen	laboratory	Q	2.2	1.41	mg/l N			
			accredited							
	MW2	Total Ox Nitrogen	laboratory				mg/l N			
			accredited							
	MW2	Chloride	laboratory	Q	111	72.55	mg/l Cl			
			accredited							
	MW2	Total Carbon	laboratory				mg/l			
			accredited							
	MW2	Total Inorganic Carbon	laboratory				mg/l			
			accredited							
	MW2	Total Organic Carbon	laboratory	Q	6.84	5.41	mg/I C			
			accredited							
	MW2	Total Coliforms	laboratory	Q	2170	758	No/100ml			
	MW2	Faecal Coliforms	accredited laboratory	Q	10	5.5	No/100ml			

Groundwater	/Soil monitoring template			Lic No:	W0067-02		Year	2013	
		accredited							
MW2	Phenols	laboratory				mg/l			
		accredited				g.			
MW2	Sodium	laboratory	Q	40	26.75	mg/l			
		accredited	-			J			
MW2	Potassium	laboratory	Q	12	8	mg/l			
		accredited				,			
MW2	Iron	laboratory	Α	3040	3040	ug/l			
		accredited							
MW2	Lead	laboratory	Α	8	8	ug/l			
		accredited							
MW2	List 1&2 Organics	laboratory							
		accredited							
MW2	Magnesium	laboratory	Α	20	20	mg/l			
		accredited							
MW2	Manganeese	laboratory	Α	1276	1276	ug/l			
		accredited							
MW2	Mercury	laboratory	Α	0.1	0.1	ug/l			
		accredited							
MW2	Total Alkalinity	laboratory	Α	766	766	mg/l CaCO3			
		accredited							
MW2	Sulphate	laboratory	Q	43.7	43.7	mg/l SO4			
		accredited							
MW2	Total Phosphorous	laboratory	A	0.14	0.14	mg/l P			
		accredited							
MW2	Orthphosphate	laboratory				mg/l PO4			
		accredited							
MW2	Residue on evaporation	laboratory							
		accredited							
MW2	Zinc	laboratory	A	32	332	ug/l			
	-	accredited		0.5					
MW2	Flouride	laboratory	A	0.5	0.5	mg/l F			
MW2	Calcium	accredited laboratory		164	101	II			
IVIVVZ	Calcium	accredited	A	104	164	mg/l			
MW2	Cadmium	laboratory	А	0.5	0.5	ug/l			
101002	Caumum	accredited	^	0.0	0.5	ugn			
MW2	Copper	laboratory	А	6	6	ug/l			
IVIVVZ	оорры	accredited	Α	0	0	ugn			
MW2	Cyanide	laboratory	А	0.009	0.009	mg/l CN			
IVIV2	Gyuriuc	accredited	, , ,	0.000	0.005	mg/r ort			
MW2	Total Solids	laboratory				mg/l			
141442	Total Condo	accredited				myn			
MW2	Boron	laboratory	Α	78	78	ug/l			
	55.5	accredited	, , , , , , , , , , , , , , , , , , ,	1	, ,				
MW2	Chromium	laboratory	A	2	2	ug/l			
12		accredited	**		_	-5.			
MW2	Dissolved Nickel	laboratory				ug/l			
		accredited				Ů			
MW2	Total Nickel	laboratory	Α	4	4	mg/l			

Groundw	vater/Soil mo	nitoring template			Lic No:	W0067-02		Year	2013		
		, , , , , , , , , , , , , , , , , , ,	accredited								
	MW2	nitrate as no3	laboratory				mg/1				
			accredited				Ĭ				
	MW2	nitrite as no2	laboratory				mg/1				
			accredited								
	MW2	SVOC	laboratory	A	2	2	ug/l				
			accredited								
	MW2	VOC	laboratory	A	1	1	ug/l				
			accredited								
	MW2	Pesticides (OCP)	laboratory	A	2	2	ng/l				
Table 2:	Downgradiei	nt Groundwater monito	oring results	1	1		1				T
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 year average pollutant concentration over la 5 years of monitoring data
			accredited								
	MW3	D.O.	laboratory	Q	3.12	2.63	mg/l				
			accredited				Ü				
	MW3	pН	laboratory	Q	6.8	6.8					
			accredited								
	MW3	Conductivity	laboratory	Q	0.919	0.911	mS/cm				
			accredited								
	MW3	Ammonical Nitrogen	laboratory	Q	0.45	0.375	mg/l N				
	MAZO	T	accredited								
	MW3	Total Ox Nitrogen	laboratory				mg/l N				
	MW3	Chloride	accredited laboratory	Q	18.6	18.36	ma/I CI				
	WWO	Gilloride	accredited	ų .	16.0	10.00	mg/l Cl				
	MW3	Total Carbon	laboratory				mg/l				
			accredited								
	MW3	Total Inorganic Carbon	laboratory				mg/l				
		*	accredited				-				
	MW3	Total Organic Carbon	laboratory	Q	2.89	2.78	mg/I C				
			accredited								
	MW3	Mercury	laboratory	A	0.1	0.1	ug/l				
			accredited								
	MW3	Faecal Coliforms	laboratory	Q	10	4	No/100ml				
	5.00.4°C		accredited			00.00					
	MW3	Total Coliforms	laboratory	Q	260	86.66	No/100ml				
	NAVA	Codime	accredited		40	13	e/I				
	MW3	Sodium	laboratory accredited	Q	18	13	mg/l				
Į.											

Ground	lwater/Soil m	onitoring template			Lic No:	W0067-02		Year	2013	
			accredited							
	MW3	Phenols	laboratory				mg/l			
			accredited				Ü			
	MW3	Total Phosphorous	laboratory	Α	0.06	0.06	mg/I P			
			accredited							
	MW3	Boron	laboratory	Α	107	107	ug/l			
			accredited							
	MW3	Cadmium	laboratory	Α	0.5	0.5	ug/l			
			accredited							
	MW3	Calcium	laboratory	A	211	211	mg/l			
			accredited							
	MW3	Chromium	laboratory	A	1	1	ug/l			
	MW3	0	accredited		40	12				
	IVIVV 3	Copper	laboratory	A	12	12	ug/l			
	MW3	Iron	accredited laboratory	А	13270	13270	ug/l			
	IVIVVO	11011	accredited	A	13210	13210	ug/i	1		
	MW3	Lead	laboratory	А	2	2	ug/l			
		Loud	accredited		-	 	ugn			
	MW3	Magnesium	laboratory	Α	14	14	mg/l			
		- 3	accredited				,			
	MW3	Manganeese	laboratory	Α	540	540	ug/l			
		•	accredited							
	MW3	Dissolved Nickel	laboratory				ug/l			
			accredited							
	MW3	Total Nickel	laboratory	Α	2	2	mg/l			
			accredited			_				
	MW3	Zinc	laboratory	A	5	5	ug/l			
	MW3	131400 0	accredited							
	IVIVVS	List 1&2 Organics	laboratory accredited							
	MW3	Total Alkalinity	laboratory	А	522	522	mg/l CaCO3			
	141140	Total Alkalility	accredited	A	322	- OZZ	mg/r cacco			
	MW3	Sulphate	laboratory	Q	47.1	57.96	mg/l SO4			
	1	Сырпию	accredited	Ť	77.1		911 00-1			
	MW3	Orthphosphate	laboratory			1	mg/I PO4			
			accredited				Ť			
<u></u>	MW3	Residue on evaporation	laboratory	<u> </u>						
			accredited							
	MW3	Flouride	laboratory	Α	0.2	0.2	mg/l F			
			accredited							
	MW3	Cyanide	laboratory	Α	0.009	0.009	mg/l CN			
			accredited							
	MW3	Total Solids	laboratory			+	mg/l			
	MANA/2		accredited							
	MW3	nitrate as no3	laboratory	 	-	+	mg/1	-		
	MW3	nitrite as no2	accredited				ma/1			
	IVIVVO	nitrite as noz	laboratory accredited			+	mg/1	+		
	MW3	SVOC	laboratory	А	2	2	ug/l			
		3,00	laboratory				ugn	-1		1

Groundy	vater/Soil m	onitoring template			Lic No:	W0067-02		Year	2013	
			accredited							
	MW3	VOC	laboratory	Α	1	1	ug/l			
			accredited							
	MW3	Pesticides (OCP)	laboratory	Α	2	2	ng/l			
·							SELECT			SELECT

* 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)									Drinking water (private supply) standards	<u>Drinking water (public</u> <u>supply) standards</u>
· · · · · · · · · · · · · · · · · · ·										
						SELECT				SELECT

* 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)

Standards (DWS)

Orinking water (public supply)

Drinking water (public supply)

Standards (DWS)

Orinking water (public supply)

Drinking water (public supply)

Standards (DWS)

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

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

Environmental Liabilities template Lic No: W0067-02	Year	2013
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Click here to access EPA guidance on Environmental Liabilities and Financial provision

			Commentary
1	ELRA initial agreement status	Submitted and agreed by EPA	
2	ELRA review status	Review required and not completed;	
3	Amount of Financial Provision cover required as determined by the latest ELRA	8695000	
4	Financial Provision for ELRA status	Required but not submitted	
5	Financial Provision for ELRA - amount of cover	8695000	
6	Financial Provision for ELRA - type	nsurance with Environmental Impairmen	t Liability cover,
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	losure plan submitted and agreed by EP	Ą
9	Closure plan review status	Review required and not completed	
10	Financial Provision for Closure status	Submitted and agreed by EPA	
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	

	Environmental Management Programme/Continuous Improvement Programme	template	Lic No:	W0067-02	Year	2013
	Highlighted cells contain dropdown menu click to view		Additional Information		_	
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes				
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes				
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes				
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes				

Environmental Management Programme (EMP) report									
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes				
Reduction of emissions to Air	Reduce odours feom Cell 2	100	Permanent Cap installed	Section Head	Reduced emissions				
Energy Efficiency/Utility conservation	Gas Utilisation	40	Grid connection approved	Section Head	SELECT				
SELECT		SELECT		SELECT	SELECT				

SELECT

	Noise monitoring summary report	Lic	: No:W0067-0	02	Year	2013	
1	Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below			Yes			
า	Was noise monitoring carried out using the EPA Guidance note including completion of th	· · · · · · · · · · · · · · · · · · ·	oise uidance	Yes			
_	"Checklist for noise measurement report" included in the guidance note as table 6?		te NG4	res			
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 survey?	ges) since the la	ast noise	No			
	Table N1: Noise monitoring summary						
	Date of Noise location Noise sensitive location -NSL Noise sensitive location -NSL LA _{eq} LA ₉₀ LA ₉₀ LA _{eq} LA _{eq}	LA ₁₀	LA _{max}	Tonal or Impulsive	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)?

No

No

No

No

No

No

No

No

28/08/2013 13.25-13.55

28/08/2013 12.45-13.15

28/08/2013 14.04-14.34

28/08/2013 14.42-15.12

28/08/2013 23.56-00.26

28/08/2013 23.20-23.50

28/08/2013 22.43-23.13

28/08/2013 22.00-22.30

N1

N4

N6

N7

N1

N4

N6

N7

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

40

44

45

43

40

42

44

40

44

49

53

54

44

45

46

45

46

52

56

58

53

49

52

49

SELECT

Road traffic

SELECT

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

^{*}Please ensure that a tonal analysis has been carried out as per guidance note NG4. These records must be maintained onsite for future inspection

Resource Usage/Energy efficiency summary Lic No: W0067-02 Year 2013 Additional information

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

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

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) Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (M	l 1WHrs)			
Electricity Consumption (MWHrs)	152750	132550		
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	8770	9198	0	
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		
						Volume used i.e not		
			Production +/- %	Energy		discharged to		
			compared to	Consumption +/- %	Volume Discharged	environment e.g.		
	Water extracted	Water extracted	previous reporting	vs overall site	back to	released as steam		
Water use	Previous year m3/yr.	Current year m3/yr.	year**	production*	environment(m ³ yr):	m3/yr	Unaccounted for Water:	
Groundwater								
Surface water								
Public supply	333	1317						
Recycled water								
Total			, in the second					

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

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

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

Resource	source Usage/Energy efficiency summary				Lic No:	W0067-02		Year	2013
	Table R4: Energy Au	dit finding recommendat	ions						
	Date of audit		Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility		Status and comments
				SELECT					
				SELECT					
				SELECT					

	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	n Site				

complaints at	nd Incidents summary	template			Lic No:	W0067-02		
		Complaints						
Have you received any environmental complaints in the current reporting year? summary details of complaints received on site in table 1 be				Yes	Additional inform	ation		
Tab	le 1 Complaints summary]					
			Brief description of					
			complaint (Free txt <20	Corrective action< 20	1		Further	
Date	Category	Other type (please specify)	words)	words	Resolution status	Resolution date	information	_
14.01.2013	Odour		Odour complaint by local		Ongoing			_
15.01.2013	Odour		Odour complaint by local	resident	Ongoing		 	_
	SELECT				SELECT		<u> </u>	_
	SELECT				SELECT		ļ	_
	SELECT				SELECT		l	_
Total complaints								
open at start of								
reporting year								
Total new								
complaints								
eceived during								
reporting year								
reporting year Total complaints								
reporting year Total complaints closed during								
reporting year Total complaints closed during reporting year								
reporting year	F							

	Incidents						
		Additional informa	tion				
Have any incidents occurred on site in the current repor year in Tab		ents for current reporting	SELECT				
		1					
*For information on how to report and what							
constitutes an incident	What is an incident						

incidents previous year % reduction/ increase

Table 2 Incidents sun	nmary		1											
						Other	Activity in				Preventative			1
			Incident category*please			cause(please	progress at			Corrective action<20	action <20		Resolution	Liklihood of
Date of occurrence	Incident nature	Location of occurrence	refer to guidance	Receptor	Cause of incident	specify)	time 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														
year														
Total number of														

14000

14000

	1				Lic No:	W0067-02		Year	2013			
ECTION A-PRTR C	ON SITE WASTE TREATMENT	AND WASTE TRANSFERS	TAB- TO BE COMPLI	TED BY ALL IPPC AN	ID WASTE FACILITIES	PRTR facility log	on_	dropdown lis	st click to see options			='
SECTION B- WAST	E ACCEPTED ONTO SITE-TO I	BE COMPLETED BY ALL IP	PC AND WASTE FACI	LITIES			Additional Information					
	ted onto your site for recovery or d tured through PRTR reporting)	sposal or treatment prior to rec	overy or disposal within th	ne boundaries of your faci	lity ?; (waste generated within your	No	Additional information	on 				
If yes please enter deta	ils in table 1 below							1				
Did your site have any r	rejected consignments of waste in ti	ne current reporting year? If yes	please give a brief explan	ation in the additional info	ormation	No						
	e accepted onto your site that was a				in additional information	No Our site, as t	hasa will hava	heen reported in	vour PRTR workhook)			
Licenced annual tonnage limit for your site (total tonnes/annum)	EWC code European Waste Catalogue EWC codes	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which European Waste Catalogue EWC codes	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/Incr ease 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 -	
												-
Is all waste processing i	nfrastructure as required by your lice astructure as required by your licen relevant nuisance controls in place? nanagement system in place for you	cence and approved by the Ager ce and approved by the Agency	icy in place? If no please li	st waste processing infras		SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT						
	se register on site.											
Do you have an odour r Do you maintain a slud	COMPLETED BY LANDFILL SI	TES ONLY										
Do you have an odour r Do you maintain a sludg		TES ONLY										
Do you have an odour r Do you maintain a sludi SECTION D-TO BE Table 2 Waste type Waste types permitted for disposal	e and tonnage-landfill only 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								
Do you have an odour r Do you maintain a sludi SECTION D-TO BE Table 2 Waste typ	e and tonnage-landfill only Authorised/licenced annual intake	Actual intake for disposal in	capacity at end of	Comments								
Do you have an odour r Do you maintain a sludi SECTION D-TO BE Table 2 Waste type Waste types permitted for disposal	e and tonnage-landfill only Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	capacity at end of reporting year (m3)	Comments								
Do you have an odour To Do you maintain a sludy SECTION D-TO BE Table 2 Waste typ Waste types permitted for disposal Non Hazardous	e and tonnage-landfill only Authorised/licenced annual intake for disposal (tpa) 45,000	Actual intake for disposal in reporting year (tpa)	capacity at end of reporting year (m3)	Comments								
Do you have an odour To Do you maintain a sludy SECTION D-TO BE Table 2 Waste typ Waste types permitted for disposal Non Hazardous	e and tonnage-landfill only Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	capacity at end of reporting year (m3)	Comments						Total disposal	Lined disposal	

23-Apr-12

Public

Non Hazardous

Feb-14 No

Cell 3 A

WASTE SUMMARY Lic No: W0067-02 Year 2013

Table 4 Elivirollille	nitai inomitoring-iamumi on	Landilli Manual-Monitoring Star	luarus					
Was meterological								
monitoring in						Was	Has the statement	
compliance with						topography of	under S53(A)(5) of	
Landfill Directive (LD)		Was Landfill Gas monitored in				the site	WMA been	
standard in reporting	compliance with LD standard in	compliance with LD standard in	compliance with LD	Have GW trigger levels	Were emission limit values agreed with	surveyed in	submitted in	í
year +	reporting year	reporting year	standard in reporting year	been established	the Agency (ELVs)	reporting year	reporting year	Comments
yes	yes	yes	yes	no	no	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 waste that should be permanently		
	SELECT UNIT	SELECT UNIT	Area with final cap to LD Standard m2 ha, a	Area capped other	capped to date under licence	What materials are used in the cap	Comments
Ì	0	4500	72000	0	72000	1 mm lldpe and soils	

*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

SELECT SELECT

Volume of leachate in	Leachate (BOD) mass load	Leachate (COD) mass load	Leachate (NH4) mass	Leachate (Chloride)	Specify type of leachate	
			load (kg/annum)	mass load kg/annum		Comments
47744						

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

Tubic / Lunaiiii Gu.	- Landin Only			
			Was surface emissions	
Gas Captured&Treated			monitoring performed	
by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	during the reporting year?	Comments
562552	nil	nil	Yes	nil



Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.17

REFERENCE YEAR	2013
1. FACILITY IDENTIFICATION	
Parent Company Name	Mayo County Council
Facility Name	Rathroeen Landfill
PRTR Identification Number	W0067
Licence Number	W0067-02

Waste or IPPC Classes of Activity

Waste or IPPC Classes of Activity	
No.	class_name
3.1	Deposit on, in or under land (including landfill).
	Storage prior to submission to any activity referred to in a preceding
	paragraph of this Schedule, other than temporary storage, pending
3.13	collection, on the premises where the waste concerned is produced.
	Specially engineered landfill, including placement into lined discrete
	cells which are capped and isolated from one another and the
3.5	environment.
	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary
	storage, pending collection, on the premises where such waste is
4.13	produced.
	Recycling or reclamation of metals and metal compounds.
	Recycling or reclamation of other inorganic materials.
Address 1	
Address 2	Ballina
Address 3	Co Mayo
Address 4	
	Мауо
Country	Ireland
Coordinates of Location	1 111
River Basin District	
NACE Code	1.7
	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	• •
AER Returns Contact Email Address	0 , ,
AER Returns Contact Position	
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	
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	
User Feedback/Comments	Changed flare Aug 2013, doubled the size to 600m3, therefore diff in
	amount flared
Web Address	

2. PRTR CLASS ACTIVITIES

2. FRIR CEASS ACTIVITIES									
Activity Number	Activity Name								
5(d)	Landfills								
	Installations for the disposal of non-hazardous waste								
5(d)	Landfills								
50.1	General								

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

0. 002121110 N200251110110 (0.11 No. 0.10 0. 200	
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?	
useu :	

WASTE IMPORTED/ACCEPTED ONTO SITE Do you import/accept waste onto your site for on

Guidance on waste imported/accepted onto site

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

SECTION A. SECTOR SPECIFIC PRIN FOLL	DIANIS					_					
	RELEASES TO AIR						Please enter all quantities in this section in KGs				
POLLUTANT			N	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			
01	Methane (CH4)	M	OTH	oth	221237.51	221237.51	0.0	0.0			
03	Carbon dioxide (CO2)	С	OTH	Gassim	3423097.5	3423097.5	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			METI	HOD	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	1 (

* 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)

	Please enter all quantities in this section in KGs							
POLLUTANT		METHOD			QUANTITY			
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			•		0.0	0	0.0	0.0

* 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 Trotal NGOy for Section A: Sector specific PRTR pollutiants above. Please complete the table below.

Link to previous years emissions data

Landfill:	Rathroeen Landfill					
Please enter summary data on the quantities of methane flared and / or utilised			Meti	hod Used		
	T (T-1-1) In (Y-1-1				Facility Total Capacity m3	
	T (Total) kg/Year	M/C/E	Method Code	Designation or Description	per hour	
Total estimated methane generation (as per site						
model)	783739.51	E	Est	Gassim	N/A	
Methane flared	562552.0	Е	Est	Landfill Gas model	600.0	(Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section						
A above)	221237.51	E	Calculated	Calculated	N/A	

Haz Waste : Name and ence/Permit No of Next Destination Haz Waste: Address of Next Quantity Name and License / Permit No. and Actual Address of Final Destination Non Haz Waste (Tonnes per Name and Licence/Permit No of Recover/Disposer Non Haz Waste: Address of ddress of Final Recoverer / Disnos e Final Recovery / Disnosal Site (HAZARDOUS WASTE ONLY) (HAZARDOUS WASTE ONLY) Year) Method Used Recover/Disposer Waste Location of Treatment Transfer Destination European Waste Code Hazardous Description of Waste Operation M/C/E Method Used Treatment Carrowbrown.headford Within the Country 15 01 02 No 32.96 plastic packaging (Pet & HDPE) R5 М Weighed Offsite in Ireland Barna Waste .W0106-02 Road, Galway, Galway, Ireland Carrowbrown,headford Within the Country 15 01 02 1.1 plastic packaging (polystyrene) Offsite in Ireland Barna Waste .W0106-02 Road, Galway, Galway, Ireland No R5 М Weighed Carrowbrown,headford Within the Country 15 01 04 Nο 3.42 metallic packaging М Weighed Offsite in Ireland Barna Waste ,W0106-02 Road, Galway, Galway, Ireland Galway Metal ,WFP-11-g-Oranmore.Galway Within the Country 15 01 04 No 17.1 metallic packaging R5 M Weighed Offsite in Ireland 0005-01 ,Galway,Galway,Ireland Carrowbrown.headford 3.6 composite packaging (tetra Paks) Offsite in Ireland Barna Waste ,W0106-02 Road, Galway, Galway, Ireland Within the Country 15 01 05 No R5 Weighed Carrowbrown,headford Within the Country 16 01 03 No 7.06 end-of-life tyres R5 М Weighed Offsite in Ireland Barna Waste .W0106-02 Road, Galway, Galway, Ireland Recyfuel,SA BE Unit 1 Allied Ind 459735458,Zoning Ind Zoning Ind gases in pressure containers (including Est.Kylemore Rd.Dublin Est,D'Hein,Eingis,B4480,Belgi Est,D'Hein,Eingis,B4480,Belgi To Other Countries 16 05 04 2.86 halons) containing dangerous substances D10 Μ Weighed Eco Safe Systems, W0054-02 10,Ireland Yes Rathroeen Landfill.Killala Within the Country 17 02 01 620.84 wood R3 Offsite in Ireland Rathroeen Landfill, W0067-2 Road, Ballina, Ballina, Ireland Nο M Weighed gypsum-based construction materials other Carrowbrown.headford Offsite in Ireland Barna Waste ,W0106-02 Road, Galway, Galway, Ireland Within the Country 17 08 02 No 9.54 than those mentioned in 17 08 01 R5 М Weighed landfill leachate other than those Mayo County Council, D0016- Beleek, Ballina, Mayo Within the Country 19 07 03 Nο 47744.0 mentioned in 19 07 02 D9 M Volume Calculation Offsite in Ireland 01 ,Mayo,Ireland Clogher, Westport, Mayo, May Within the Country 20 01 01 67.46 paper and cardboard (cardboard) Offsite in Ireland Stanley Bourke,CW050 No R5 M Weighed o.Ireland Ballina Civic Offices Arran Within the Country 20 01 01 No 0.0 1 D1 M Weighed Offsite in Ireland Ballina Town Council, Exm Place, Ballina, Mayo, Ireland Within the Country 20 01 02 69.7 glass R5 Offsite in Ireland Rehab Recycling Ltd, Exempt Cork, , , , , Ireland No М Weighed Carrowbrown, headford Within the Country 20 01 02 12.82 glass (window Glass) R5 Offsite in Ireland Barna Waste ,W0106-02 Road, Galway, Galway, Ireland No Weighed Belgard Road, Tallaght, Tallaght, Dublin Within the Country 20 01 10 16.52 clothes R3 М Weighed Offsite in Ireland Textile Recycling, WPR 14 ,Ireland KMK Metals, W0113-Cappinure Ind 02.Cappinure Ind Estate, Daingean Est, Daingean Cappinure Ind Est, Daingean fluorescent tubes and other mercury Rd,Tullamore,Offaly,Ireland Within the Country 20 01 21 Yes 1.02 containing waste R4 М Weighed Offsite in Ireland KMK Metals, W0113-02 Rd,Tullamore,Offaly,Ireland Rd,Tullamore,Offaly,Ireland Crag Avenue, Clondalkin Industrial Estate Dublin Within the Country 20 01 25 No 1.1 edible oil and fat R9 Weighed Offsite in Ireland Greyhound Recycling, W0047 22, Dublin , ireland М Enva,W0184-01,Clonminan Clonmiam Ind Clonminam Ind Ind Estate, Portlaois, Portlaois, Lao Est, Portlaoise, Laoise, Laoise, Ir Est, Portlaoise, Laoise, Laoise, Ir oil and fat other than those mentioned in 20 Within the Country 20 01 26 Offsite in Ireland Enva.W184-01 Yes 3.7 01 25 M Weighed is.Ireland eland eland Recyfuel,SA BE 459735458,Zoning Ind Unit 1 Allied Ind Zoning Ind paint, inks, adhesives and resins containing Est,Kylemore Rd,Dublin Est, D'Hein, Eingis, B4480, Belgi Est, D'Hein, Eingis, B4480, Belgi Within the Country 20 01 27 12.08 dangerous substances Weighed Offsite in Ireland Eco Safe Systems, W0054-02

Within the Country	20 01 32	No	medicines other than those mentioned in 20 2.78 01 31	D10	М	Weighed	Offsite in Ireland Eco Safe	E	Unit 1,Allied Ind Est,Kylemore Rd,Dublin 10,Ireland		
			batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these						Cappinure Ind	KMK Metals,W0113- 02,Cappinure Ind Est,Daingean	Cappinure Ind Est, Daingean
Within the Country	20 01 33	Yes	3.98 batteries batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted	R4	М	Weighed	Offsite in Ireland KMK Me		Greenouge Ind	Rialta ,W0192-02,Greenouge Ind	Rd,Tullamore,Offaly,Ireland Greenouge Ind
Within the Country	20 01 33	Yes	batteries and accumulators containing these 3.78 batteries	R4	М	Weighed	Offsite in Ireland Rialta,W			Es,Rathcoole,Dublin,Dublin,Ir eland	Es,Rathcoole,Dublin,Dublin,Ir eland
Within the Country	20 01 36	No	discarded electrical and electronic equipment other than those mentioned in 175.0 20 01 21, 20 01 23 and 20 01 35	R4	М	Weighed	Offsite in Ireland KMK Me	E	Cappinure Ind Estate,Daingean Rd,Tullamore,Offaly,Ireland		
Within the Country	20 01 36	No	discarded electrical and electronic equipment other than those mentioned in 0.0 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland KMK Me	E	Cappinure Ind Estate,Daingean Rd,Tullamore,Offaly,Ireland		
Within the Country	20 01 39	No	21.12 plastics (Hard plastics)	R5	М	Weighed	Offsite in Ireland Barna W		Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	20 01 40	No	79.55 metals (scrap metals)	R4	М	Weighed	Offsite in Ireland Barna W		Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	20 02 01	No	0.0 biodegradable waste (green waste)	R5	М	Weighed	Offsite in Ireland Barna W		Carrowbrown,headford Road,Galway,Galway,Ireland		
Within the Country	20 03 01	No	1122.08 mixed municipal waste	D1	M	Weighed	Offsite in Ireland Rathroe		Rathroeen Landfill,Killala Road,Ballina,Ballina,Ireland		
Within the Country	20 03 03	No	0.0 m	D1	М	Weighed	Offsite in Ireland Offices, E		Arás An Chontae,The Mall,Castlebar,Mayo,Ireland		
Within the Country	17 08 02	No	gypsum-based construction materials other 9.54 than those mentioned in 17 08 01	R5	М	Weighed	Offsite in Ireland Barna W		Carrowbrown,headford Road,Galway,Galway,Ireland		

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

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

		NATIONAL WASTE REPORT	2013 SURVEY				
	F	PART ONE - GENERAL COMPANY II					
SECTION 1. GENERAL QUESTIONS							
Q1. Year to which Data Applies:							
Q2. Company Name (and trade name if applicable):	Mayo County Council	Calendar Year 2013		T .			
	Rathrosen Landfill, Killali	is Road, Ballins, Co. Mayo. W0067-02					
Q4. Contact Name for queries on this survey:	Michael Hegarty						
Q5. Telephone Numbers (<u>Landline</u> & <u>Mobile</u>): Q6. E-mail:	0672046722 or 0967509	5					
Weste Activities Onsite	mnegarry is mayococo.ie			<u>.</u>			
Q7. Please provide a brief description of activities that are carried out onsite including the types of wastes accepted	Landfill & Recycling Cen	ter					
orana:							
Q8. Were any wastes accepted at the <u>landfill</u> facility in 2013 for onsite recovery?		HYES, please specify the waste types recovered:	timber				
for onsite recovery?	Yes						
Q9. Was there a civic amenity facility onsite and operational in 2012?	Yes	If YES, please detail these wastes on Part 3 of this Survey					
		i i ES, pesse decar unas waste di Pari 3 di una survey					
Q10. Was there a waste transfer station onsite and operational in 2013?	No	# YES, please detail these wastes on Part 4 of this Sur	vey				
Was there a compost facility onsite and operational in		1					
Q11. Was there a compost facility onsite and operational in 2013?	No	# YES, please detail these wastes on Part 5 of this Sur	,				
Q12. Remaining consented disposal capacity of the landfill (tonnes):	124,000t						
			7				
Please enter the remaining Bulit capacity of the landfill as of the end of 2013 in toness. O13. If the capacity data is only available in terms of volume (m ³), then you must note the most up-to-date waste density figures being achieved in tonnes per cubic metre							
(m²), then you must note the most up-to-date waste density figures being achieved in tonnes per cubic metre (t/m²)	<u> </u>	124000					
		HYES, please describe:	balling of recylable for transpor				
Are there any other waste activities or infrastructure on- silize (e.g., balling, bloatabilisation, waste transfer station 014. etc. but accluding landfill related activities such as gas flaring, is achiet treatment)	Yes			l			
flaring, leachate treatment)							
Q15. Did this landfill close in 2013?	No						
		If YES, please advise date of closure:	L				
Finally, please confirm that you have read the 'Important Info' sheet:		I confirm					
THE FOLLS SECTION 2. WASTE TRANSFER STATION (W		SHOULD ONLY BE COMPLETED WHERE A V	VASTE TRANSFER STAT	ON IS LOCATED AT THE LAND	DFILL		
Q1. WAS WASTE ACCEPTED AT THE WIS IN 20137							_
This includes household, commercial or i	C&D waste		PLEASE SELECT	IF YES, YOU MUST COMPLETE SHEET	F 4A (INCOMING) AND SHEET 4B (OUTGOING)	
Q2. WAS WASTE IN STORAGE AT THE WTS AT THE STA	RT OR END OF 2013?		PLEASE SELECT	H YES, YOU MUST CO	MPLETE SHEET	4C (STORAGE)	<u> </u>
			PLEASE SELECT	WYES, YOU MUST CO	MPLETE SHEET	4C (STORAGE)	
Q2. WAS WASTE IN STORAGE AT THE WTS AT THE STA Q3. WHAT WASTE ACTIVITIES WERE CARRIED OUT AT Please provide a bail discription of the types of weaths as operations controlled controlled no college.			PLEASE SELECT	N YES, YOU MUST COI	MPLETE SHEET	4C (STORAGE)	
Q3. WHAT WASTE ACTIVITIES WERE CARRIED OUT AT Please provide a brief description of the types of waste as operations carried out on-site in 2013.	THE WTS IN 20137 coupled and processing	an maker The new principles the sector of subdivide our below.	PLEASE SELECT	N YES, YOU MUST COM	WPLETE SHEET	4C (STORAGE)	
Q3. WHAT WASTE ACTIVITIES WERE CARRIED OUT AT Please provide a brief description of the types of waste as operations carried out on-site in 2013.	THE WTS IN 20137 coupled and processing	ata provided. This may meintess the extent of validation and follow-	PLEASE SELECT	#YES, YOU MUST CO	MPLETE SHEET	4C (STORAGE)	
Q3. WHAT WASTE ACTIVITIES WERE CARRIED OUT AT Please proofes a bard description of the types of weather experience certified cell conducts to 2013. ADDITIONAL SPORMATION - Pleases include any additional up required.	THE WITS IN 2013? Depind and processing coeful information on the da				MPLETE SHEET	4C (STORAGE)	
Q2. WANT WASTE ACTIVITIES WERE CARRIED OUT AT Passe protein a load description of adoption of each pass of each pass special control of lovelin a 2012 ACCITICANA ENCOMATION - Please include any additional sprograms.	THE WITS IN 2013? cospiled and processing coseful information on the da P	els provided. This may colorise the extent of validation and future. **LEASE NOW COMPLETE THE RELEVANT SURV			MPLETE SHEET	4C (STORAGE)	
Q3. WHAT WASTE ACTIVITIES WERE CARRIED OUT AT Please provide a berif description of the figure of weather operations carried and unlabe to 2013. ACCITICALL INFORMATION - Pleases include any additional up required.	THE WTS IN 20177 coupled and processing self-ul information on the date of the self-ul information on the self-ul inform	LEASE NOW COMPLETE THE RELEVANT SURV			WPLETE SHEET	4C (STORAGE)	
O3. WHAT WATE ACTIVITIES WERE CARRIED OUT AT opportunities were carried and on-the in 2013. ACCITICALA INFORMATION - Please relative by additional top respect. MASS BALANCE AT WASTE TRANSFEE. This calculates automatically, based on the data yet.	THE WTS IN 20177 coupled and processing self-ul information on the date of the self-ul information on the self-ul inform	LEASE NOW COMPLETE THE RELEVANT SURV		C), AS INDICATED ABOVE **		4C (STORAGE)	
O3. WHAT WASTE ACTIVITIES WERE CARRIED OUT AT expenditure curried and on-site is 2013. Specific feature of operations curried and on-site is 2013. Specific feature of operations of the Committee of the Committe	THE WTS IN 20127 coupled and processing could be formation on the di p STATION u have injusted into the	LEASE NOW COMPLETE THE RELEVANT SURV	EY SHEETS (Parts 4A TO 4	C), AS NOICATED ABOVE ** 600 (Part 4B: OUTG		
O3. WHAT WASTE ACTIVITIES WERE CARRIED OUT AT expenditure curried and on-site is 2013. Specific feature of operations curried and on-site is 2013. Specific feature of operations of the Committee of the Committe	THE WTS IN 20127 coupled and processing could be formation on the di p STATION u have injusted into the	TREASE NOW COMPLETE THE RELEVANT SURV referent shades (Part 4A, 48 and 4C) 6.00 (Part 4A, NICORNO WASTE) 6.00 (Part 4C, STORAGE START 2013)	EY SHEETS (Parts 4A TO 4	C), AS NOICATED ABOVE** 6.00 (Part 4B: OUTG	DONG WASTE)	
C3. WHAT WATE ACTIVITIES WERE CARRIED OUT AT Press profile in first discipling of the byte of state in operation and out on the 3 per of state in operation and out on the 3.03. ACCITICAL, INFORMATION - Press include any additional or operated. MASS BALANCE AT WASTE TRANSPER. The calculates automatically, based on the date y	THE WTS IN 20127 coupled and processing could be formation on the di p STATION u have injusted into the	TEASE NOW COMPLETE THE RELEVANT SURV retream sheets (Print At, 45 and 4C) 0.00 (Print At, RODMING WASTE) 0.00 (Print At, RODMING START 2013) 0.00 (TOMING)	EY SHEETS (Parts 4A TO 4	C), AS NOICATED ABOVE** 6.00 (Part 4B: OUTG	DONG WASTE)	
C3. WHAT WATE ACTIVITIES WERE CARRIED OUT AT Please works and find description of the spent of state and early activities and expension carried out on the 3 to 201. ADDITIONAL INFORMATION - Please include any additional or received. MASS BALANCE AT WASTE TRANSFET The standards and early additional state of the state of the standards and early activities. To College the standards and early activities and early the standards and early	THE MITE IN 2017 TO PROVIDE THE PROPERTY OF T	EASE NOW COMPLETE THE RELEVANT SURV retream sheet (Pass 44, 48 and 4C) 0.00 (Past 44, ROUMRS WASTE) 0.00 (Past 46, BTORROS START 2013) 0.00 (TORROS)	EY SHEETS (Parts 4A TO A	C), AS NOICATED ABOVE** 6.00 (Part 4B: OUTG	DONG WASTE)	
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NATIONAL WASTE REPORT 2013 SURVEY

PART 2 - Wastes Disposed and Recovered at Landfill in 2013

Please complete sections A and B (and C Repatriated Waste, where applicable).

This data will be cross-checked against your BMW returns and information provided by other waste operators and may be subject to audit.

Please ensure you have read the guidance included in the Important Info Section and please call the Helpline on (01) 472 1072 if you require assistance.

This sheet has been protected, if you need to add more rows to enter your data then please call the Helpline on (0)1 472 1072.

Tonnage of waste accepted at landfill in 2013 (excluding repatriated waste) (autocalculates)	36,544
Tonnage of waste disposed at landfill in 2013 (autocalculates)	35,849
Tonnage of waste recovered at landfill in 2013 (autocalculates)	695

Name of EACH collector	Source of waste	Waste description	EWC code	Quantity waste	Quantity waste	Recovery/recycling	Quantity waste	Disposal code	Quantity waste
delivering waste directly from kerbside	Source of waste	waste description	EWC code	accepted (tonnes)	recovered at the landfill (tonnes)	code	disposed of at the landfill (tonnes)	Disposal code	remaining in storage at end of year (tonnes)
_									
Example 1:		Residual mixed municipal waste (Fraction from							
ABC Recycling Ltd	Household	Household customers)	20 03 01	5,000		SELECT	5,000	D05	
Example 1: ABC Recycling Ltd	Commercial	Residual mixed municipal waste (Fraction from Commercial customers)	20 03 01	5.000		SELECT	5,000	D05	
ABC Recycling Ltd	Commercial	Commercial customers)	20 03 01	5,000		SELECT	5,000	D05	
Ballina Town Council	Litter/street sweepings	Litter / street sweepings	20 03 03	552.88		SELECT	553	D05	
Western Care	Household	household waste from Western care houses	20 03 01	14.48		SELECT	14	D05	
Cluid Housing Association	Household	Black bin waste	20 03 01	3.06		SELECT	3	D05	0
Mayo County Councils areas		treated solids from water treatment plants	19 09 02	1026.85			1,027	D01	0
Sligo County Council	Fly-tipped material	fly tipped material	20 03 01	6.94		SELECT	7	D05	0
Mayo Tidy Towns	Fly-tipped material	fly tipped material	20 03 01	50.22		SELECT	50	D05	0
	L			I					
Mayo County Councils areas			20 03 03	544	0	SELECT	544	D05	0
Inland Fisheries Ireland	Household	household waste from Western care houses	20 03 01	0.1		SELECT	0	D05	
JJSweeney	Household	Domestic waste from 2 and 3 bin collections	20 03 01	483.16			483	D05	0
Stanley Bourke	Household	Domestic waste from 2 and 3 bin collections	20 03 01	1087.14	0		1,087	D05	0
McGrath Industrial Waste	Household	Domestic waste from 2 and 3 bin collections	20 03 01	3269.08			3,269	D05	0
McGrath Industrial Waste	Commercial	commercial 2 & 3 bin collections	20 03 01	3017.6			3,017	D05	0
Barna	Household	Domestic waste from 2 and 3 bin collections	20 03 01	3075.09			3,075	D05	0
Barna	Commercial	commercial 2 & 3 bin collections	20 03 01	2838.55			2,839	D05	0
Loftus Waste	Household	Domestic waste from 2 and 3 bin collections	20 03 01	1967.15			1,967	D05	0
Loftus Waste	Commercial	commercial 2 & 3 bin collections	20 03 01 SELECT	843.07		OFLECT	843	SELECT	0
	SELECT		SELECT			SELECT SELECT		SELECT	
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	SELECT		SELECT			SELECT		SELECT	

	Name of EACH facility from which waste was delivered and licence/ permit no. of this facility	Source of waste	Waste description	EWC code	Quantity waste accepted (tonnes)	Quantity waste recovered at the landfill (tonnes)	Recovery/recycling code	Quantity waste disposed of at the landfill (tonnes)	Disposal code	Quantity waste remaining in storage at end of year (tonnes)
	Example 2: Recycle More Ltd		Residual waste from mechanical processing of residual municipal solid waste (Fraction from				05: 507			
	W0450-01 Example 2: Recycle More Ltd	Household	Household customers) Residual waste from mechanical processing of residual municipal solid waste (Fraction from	19 12 12	550		SELECT	550	D05	
	W0450-01 Example 3: Waste Processing Ltd	Commercial	Commercial customers) Inert fines from processing of skip waste (Fraction from Household customers)	19 12 12 19 12 12	450 350	350	SELECT R05	450	D05 SELECT	
	Example 3: Waste Processing Ltd	Commercial	Inert fines from processing of skip waste (Fraction from Commercial customers)	19 12 12	250	250	R05		SELECT	
5	Example 3: Waste Processing Ltd	C&D	Inert fines from processing of skip waste (Fraction from building contractor customers)	19 12 12	400	400	R05		SELECT	
6	Derrinumera Civic Amenity Site	Household	Bulky waste from CA site	20 03 07	1671.82		SELECT	1,672	D05	0
7	Derrinumera Street Cleanings OCR Waste Management	Litter/street sweepings Commercial	Litter/street sweepings commercial waste from skip collections	20 03 03 20 03 01	73.28 201		SELECT SELECT	73 201	D05	0
9	Ballinrobe Waste Ballinrobe Waste	Household Commercial	Domestic waste from 2 and 3 bin collections commercial waste from skip collections	20 03 01 20 03 01	2479.72 1653.16		SELECT SELECT	2,480 1,653	D05 D05	0
1	McGrath Industrial Waste McGrath Industrial Waste	Household Commercial	Domestic waste from 2 and 3 bin collections commercial 2 & 3 bin collections	20 03 01 20 03 01	1766.55 1630.67			1,767 1,631	D05 D05	0
4	Barna Barna	Household Commercial	Domestic waste from 2 and 3 bin collections commercial 2 & 3 bin collections	20 03 01 20 03 01	2425.35 2238.79			2,425 2,239	D05 D05	0
6	Loftus Waste Loftus Waste	Household Commercial	Domestic waste from 2 and 3 bin collections commercial 2 & 3 bin collections	20 03 01 20 03 01	1265.44 542.34			1,265 542	D05 D05	0
	Rathroeen Civic Amenity Site	Household	Bulky waste from CA site	20 03 07	1122.08		SELECT	1,122	D05	0
3	McGrath Industrial Waste	Other (please specify)		20 01 38	175.56	175.56	R03			
9	MCC Derrinumera CA Stanley Bourke	Other (please specify) Other (please specify)		20 01 38	53.12 87.2	53.12 87.2	R03			
	MCC Rathroeen CA	Other (please specify)		20 01 38	224.44	224.44	R03		SELECT	
	Loftus Recycling	Other (please specify)		20 01 38	127.94	127.94	R03			
	Barna Waste	gypsum-based construction materials other than those mentioned in 17 08 01	C&D Materials	17 08 02	26.6	26.6	R05			

NATIONAL WASTE REPORT 2013 SURVEY

PART 3 - Household Waste Accepted at Civic Amentity Site in 2013

Enter information into white cells only.

Only report on tonnage accepted at the Civic Amenity Site from households

Please note that the information provided on this sheet may be subject to verification by audit.

If there is any waste from the civic amenity site that is recovered or disposed of at the landfill, remember to input the relevant data into <u>Part 2, Section B</u> of this survey.

Material type	Sugg	gested EWC codes	Household waste	Name of destination facility(ies), or collector(s) if directly exported	Comments (Use the cells in this column to comment on any significant changes in the waste tonnages accepted in 2013 compared to 2012 data)
	(overwrite as appropriate)	Notes	(tonnes)	(please provide licence/permit number)	
Mixed residual waste	20 03 01		1,116	W0067-02 Rathroeen Landfill	
Mixed dry recyclables	20 03 01				
Organic waste (food and garden)	20 00 01		<u>0</u>		
if segregated, provide specific information on food and garden waste					
food	20 01 08				
garden	20 02 01				
Cardboard, newspaper and other paper			<u>213</u>		
if segregated, provide the breakdown of cardboard and paper in the rows below					
cardboard packaging	15 01 01		71	Barna Waste, Carrowbrowne, Headford	
cardboard non-packaging	20 01 01			, , , , , , , , , , , , ,	
paper packaging	15 01 01				
paper non-packaging	20 01 01				
newspaper and magazines	20 01 01		142	Barna Waste,	
Glass			83	Carrowbrowne, Headford	
if segregated, provide the breakdown of glass in the next two rows					
glass packaging	15 01 07		70	Rehab Glassco -WFP-KE- 08-0357-01	
glass non-packaging	20 01 02		13	Barna Waste, Carrowbrowne, Headford	
Metals			<u>100</u>	Carrowbrowne, Fleadiord	
if segregated, provide the breakdown of metals in the next four rows					
aluminium cans (packaging)	15 01 04		3	Barna Waste, Carrowbrowne, Headford	
steel cans (packaging)	15 01 04		17	Galway Metal, WFP-11-G- 0005-01	
other metals (non-packaging)	20 01 40		80	Galway Metal, WFP-11-G- 0005-01	
Plastic			<u>55</u>	0000 01	
if segregated, provide the breakdown of plastic waste in the next two rows					
plastic packaging	15 01 02		33	Barna Waste, Carrowbrowne, Headford	
plastic non-packaging	20 01 39		21	Barna Waste, Carrowbrowne, Headford	
polystyrene	15 01 02		1	Barna Waste, Carrowbrowne, Headford	
Composite packaging (e.g. beverage cartons)	15 01 05			, riodalord	
Textiles for recovery or disposal	Do not report o	n textiles collected for reuse by charities	<u>17</u>		
if segregated, provide the breakdown of textiles in the next two rows		by charmes			
textiles, packaging	15 01 09				
textiles, non-packaging	20 01 11		17	Textile Recycling Belgarde Rd Tallaght	
Wood			<u>0</u>	Dolgarde Na Fallagiti	
if segregated, provide the breakdown of wood waste in the next four rows					
wood packaging	15 01 03				
wood non-packaging	20 01 38				
mixed, uncontaminated wood packaging and non-packaging	15 01 03; 20 01 38				
wood, treated, hazardous	20 01 37*				

Batteries	not exclusively o vehicle, and ar	es weigh <2kg, are sealed, are lesigned to propel an electrical e not intended to be used for rter, lighting or ignition power.	<u>7.72</u>		
load sold batteries and accumulators	16 06 01*	portable			
lead acid batteries and accumulators	16 06 01	non-portable (automotive and industrial)	3.74	Rialta - W0192-02	
Ni-Cd batteries and accumulators	46.06.02*	portable	3.98	KMK W0113-03	
NI-Ca batteries and accumulators	16 06 02*	non-portable (automotive and industrial)			
Other (e.g. alkaline) batteries and	40.00.04	portable			
accumulators	16 06 04	non-portable (automotive and industrial)			
Waste mineral oils	13 02 05*	lubrication, vehicle, machine, etc.	3.7	Barna Waste, Carrowbrowne, Headford	
Oil filters (vehicles)	16 01 07*				
Oil containers (mineral oil) - plastic + metal	15 01 10*/ 15 01 11*				
Waste cooking or vegetable oils	20 01 25		1.1	Barna Waste, Carrowbrowne, Headford	
Waste paint and varnish (including containers)	20 01 27*		12.08	Eco Safe Systems - W0054-02	
Tyres	16 01 03		7.06	Barna Waste, Carrowbrowne, Headford	
WEEE Collected by compliance schemes	EPA will compil				ry sites from the compliance schemes and re.
WEEE taken off-site by charities (e.g. mobile phones)	various				
Plasterboard (gypsum-based construction materials)	17 08 02		9.54	Barna Waste, Carrowbrowne, Headford Rd. Galway W0106-02	
Bulky waste	20 03 07	e.g. furniture, mattresses, mixed bulky waste			
Aerosols	16 05 04*		2.86	Eco Safe Systems - W0054-02	
Household Medicines	20 01 31*/ 20 01 32		2.78	Eco Safe Systems - W0054-02	
Household Pesticides	20 01 19*		0		
<other above="" categories="" included="" not=""></other>	<enter code="" ewc=""></enter>				
<other above="" categories="" included="" not=""></other>	<enter code="" ewc=""></enter>				
<other above="" categories="" included="" not=""></other>	<enter code="" ewc=""></enter>				



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

Please choose from the drop down menu the license number for your site	W0067 ▼	
Please choose from the drop down menu the name of the landfill site	Rathroeen Landfill	▼
Please enter the number of flares operational at your site in 2013	2	
Please enter the number of engines operational at your site in 2013	0	
Total methane flared	562,552 kg/year	
Total methane utilised in engin	nes 0 kg/year	

Please note that the closing date for reciept of completed surveys is 31/03/2014

Introduction

The Office of Climate Licensing and Resource Use (OCLR) of the Environmental Protection Agency acts as the inventory agency in Ireland with responsibility for compiling and reporting national greenhouse gas inventories to the European Commission and the United Nations Framework Convention on Climate Change. In addition to meeting international commitments Ireland's national greenhouse gas inventory informs national agencies and Government departments as they face the challenge to curb emissions and meet Ireland's targets under the Kyoto Protocol. The national inventory also informs data suppliers, making them aware of the importance of their contributions to the inventory process and a means of identifying areas where input data may be improved.

It is on this basis that the Environmental Protection Agency is asking landfill operators to partake in this survey so that the most uptodate information on methane flaring and recovery in utilisation plants at landfills sites is used in calculating the contribution of the waste sector to national greenhouse gas emissions

The Environmental Protection Agency wishes to thank you for partaking in this survey. If you have any questions about the survey and how to complete it please view the "Help sheet" worksheet. If however, your query is not answered by viewing the "Help sheet" worksheet please contact:

<u>LFGProject@epa.ie</u>

Once completed please send the completed file as an attachment clearly stating the name and or license number of the landfill site (e.g. W000 Xanadu landfill_2013) to: LFGProject@epa.ie

Flare No. 1 Organics 300m3/hr Enclosed Flare Flare type? Other $\overline{}$ Is the flare an open or enclosed flare? Enclosed \blacksquare Rated flare capacity? m3/hr 300 2002 \blacksquare Month /year comissioned ? August ▾ Month decomissioned if decomissioned in 2013? ~ August "other" enter flare function here What is the function of the flare? Odour control \blacksquare Average CH₄ Average CO₂ Average O₂ Total CH₄ Total CH₄ Method Total runtime Average Inlet Average Flow Combustion Monthly Runtime Runtime Downtime Rate (m³/hr) m^3 M/C/E days/month hrs/day hrs hrs/month Pressure (mbg) %v/v %v/v %v/v efficiency (%) kgs М 31 24.0 1.0 743 -70 180 44.00 28.00 1.00 98.0 57,669 37,067 January 28 24.0 1.0 671 -70 180 45.00 28.00 2.00 53,264 34,235 February 98.0 m March 31 24.0 1.0 743 -60 200 42.00 29.00 1.00 98.0 61,164 39,730 m 200 April 30 24.0 0.0 720 -60 42.00 29.00 2.00 98.0 59,270 38,500 m May 31 24.0 1.0 743 -32 280 40.00 29.00 2.00 98.0 81,552 54,529 m 718 -35 290 28.00 2.00 83,663 55,770 June m 30 24.0 2.0 41.00 98.0 280 July m 31 24.0 1.0 743 -32 40.00 28.00 2.00 98.0 81,552 54,529 August 0 98.0 0 0

to be filled in by licensee

calculated by spreadsheet

0

0

0

0

478,133

0

0

0

0 314,359

98.0

98.0

98.0

98.0

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

September

November

December

Total

October

0

0

0

0

5,081

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

to be filled in by licensee	calculated by spreadsheet	
,	, ,	

Flare No. 2													
	Flare type	?				Other	Other ■ Biogas 600m3/hr Enclosed Flare						
	Is the flare	an open or en	closed flare	?		Enclosed	~	Rated flare ca	pacity ?	600	▼	m3/hr	
	Month /yea	r comissioned	?			August	2013	▼					
	Month dec	omissioned if o	decomission	ed in 2013 ?		Select	Select ▼						
	What is the function of the flare ?					Odour control		▼	If "other" ente	er flare function	n here		
Monthly	Method	Runtime	Runtime	Downtime	Total runtime	Average Inlet	Average Flow	Average CH ₄	Average CO ₂	Average O ₂	Combustion	Total CH₄	Total CH ₄
	M/C/E	days/month	hrs/day	hrs	hrs/month	Pressure (mbg)	Rate (m³/hr)	%v/v	%v/v	%v/v	efficiency (%)	m ³	kgs
January					0						98.0	0	0
February					0						98.0	0	0
March					0						98.0	0	0
April					0						98.0	0	0
May					0						98.0	0	0
June					0						98.0	0	0
July					0						98.0	0	0
August	M	31	24.0	1.0	743	-32	310	38.60	28.80	3.00	98.0	87,129	58,258
September	M	30	24.0	0.0	720	-35	290	38.00	28.00	2.40	98.0	77,757	51,833
October	M	31	24.0	1.0	743	-33	260	38.00	27.80	2.50	98.0	71,940	48,053
November	M	30	24.0	2.0	718	-35	255	37.00	27.80	2.50	98.0	66,388	44,255
December	М	31	24.0	0.0	744	-31	245	38.30	26.80	2.30	98.0	68,417	45,793
Total					3,668							371,632	248,192

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

Yearly	Method	Runtime	Runtime	Downtime	Total runtime	Average Inlet	Average Flow	Average CH ₄	Average CO ₂	Average O ₂	Combustion	Total CH ₄	Total CH ₄
	M/C/E	days/year	hrs/day	hrs	hrs/year	Pressure (mbg)	Rate m ³ /hr	%v/v	%v/v	%v/v	efficiency (%)	m³	kgs
2013					0						98.0	0	0