

Facility Information Summary	
AER Reporting Year	2013
Licence Register Number	W0067-02
Name of site	Rathroeen Landfill
Site Location	Killala Road, Ballina, Co. Mayo
NACE Code	
Class/Classes of Activity	
National Grid Reference (6E, 6 N)	
<p>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.</p>	
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	Date
Group/Facility manager	
(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
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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

3 Was all monitoring carried out in accordance with EPA [Basic air monitoring checklist](#) and using the basic air monitoring checklist? [AGN2](#)

SELECT	
SELECT	

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

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		

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

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Continuous Monitoring					

4 Does your site carry out continuous air emissions monitoring?
 If yes please review your continuous monitoring data and report the required fields below in Table 3 and compare it to its relevant Emission Limit Value (ELV)

5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table 3 below

6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?

7 Did your site experience any abatement system bypasses? If yes please detail them in table 4 below

Table A2: Summary of average emissions -continuous monitoring

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

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

Table A3: Abatement system bypass reporting table [Bypass protocol](#)

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

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

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

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Solvent use and management on site								
8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? If yes please fill out tables A4 and A5					SELECT			
Table A4: Solvent Management Plan Summary		Solvent regulations Please refer to linked solvent regulations to complete table 5 and 6						
Total VOC Emission limit value								
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site	Total VOC emissions as %of solvent	Total Emission Limit Value (ELV) in licence or any revision thereof	Compliance			
					SELECT			
					SELECT			
Table A5: Solvent Mass Balance summary								
		(O) Outputs (kg)						
(I) Inputs (kg)								
Solvent	(I) Inputs (kg)	Organic solvent emission in	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g.	Solvents destroyed onsite through	Total emission of Solvent to air (kg)
								Total

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0067-02 Year 2013

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

Additional information	
No	
Yes	

Table W1 Surface water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
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	mg/l O2		
SW1	upstream		COD	11.4.13			46	mg/l O2		
SW1	upstream		Chloride	11.4.13			36.5	mg/l Cl		
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	upstream		Sulphate	11.4.13			47.6	mg/l SO4		
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/l O2		
SW1	upstream		COD	27.11.13			88	mg/l O2		
SW1	upstream		Chloride	27.11.13			34.3	mg/l 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/l 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/l O2		
SW1	upstream		COD	13.9.13			10	mg/l O2		
SW1	upstream		Chloride	13.9.13			31.1	mg/l 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/l SO4		
SW1	upstream		Total Phosphorous	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/l		
SW1	upstream		Iron	13.9.13			416	ug/l		
SW1	upstream		Lead	13.9.13			0.5	ug/l		
SW1	upstream		Magnesium	13.9.13			8	mg/l		
SW1	upstream		Manganese	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		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				mg/l		
SW1	upstream		Boron	13.9.13			43	ug/l		

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SW1	upstream	DO	1.5.13		8.96	% sat	
SW1	upstream	Ammonical Nitrogen	1.5.13		0.031	mg/l N	
SW1	upstream	BOD	1.5.13		1	mg/l O2	
SW1	upstream	COD	1.5.13		53	mg/l O2	
SW1	upstream	Chloride	1.5.13		33.8	mg/l Cl	
SW1	upstream	Conductivity	1.5.13		0.59	mS/cm	
SW1	upstream	pH	1.5.13		7.5	pH units	
SW1	upstream	Total Suspended Solids	1.5.13		5	mg/l	
SW1	upstream	Sulphate	1.5.13		48.5	mg/l SO4	
SW2	onsite	DO	27.11.14		6.84	mg/l	
SW2	onsite	Ammonical Nitrogen	27.11.14		0.005	mg/l N	
SW2	onsite	BOD	27.11.14		1	mg/l O2	
SW2	onsite	COD	27.11.14		82	mg/l O2	
SW2	onsite	Chloride	27.11.14		35.1	mg/l Cl	
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/l SO4	
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	13.09.13		1	mg/l O2	
SW2	onsite	COD	13.09.13		34	mg/l O2	
SW2	onsite	Chloride	13.09.13		47	mg/l Cl	
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 Phosphorous	13.09.13		0.06	mg/l P	
SW2	onsite	Orthophosphate	13.09.13			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	Manganese	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/l SO4	
SW2	onsite	Sodium	13.09.13		32	mg/l	
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/l	
SW2	onsite	List 1 & 2 Organics	13.09.13				
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/l	
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/l O2	
SW2	onsite	COD	1.5.13		49	mg/l O2	
SW2	onsite	Chloride	1.5.13		42.2	mg/l Cl	
SW2	onsite	Conductivity	1.5.13		0.885	mS/cm	
SW2	onsite	pH	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/l SO4	
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/l O2	
SW2	onsite	COD	11.4.13		63	mg/l O2	

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SW2	onsite	Chloride	11.4.13		32.4	mg/l	C1
SW2	onsite	Conductivity	11.4.13		0.532	mS/cm	
SW2	onsite	pH	11.4.13		7.6	pH	units
SW2	onsite	Total Suspended Solids	11.4.13		41.8	mg/l	
SW2	onsite	Sulphate	11.4.13		2	mg/l	SO4
SW3	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/l	O2
SW3	downstream	COD	27.11.13		23	mg/l	O2
SW3	downstream	Chloride	27.11.13		28.7	mg/l	C1
SW3	downstream	Conductivity	27.11.13		0.755	mS/cm	
SW3	downstream	pH	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/l	SO4
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/l	O2
SW3	downstream	COD	13.09.13		27	mg/l	O2
SW3	downstream	Chloride	13.09.13		35.5	mg/l	C1
SW3	downstream	Conductivity	13.09.13		0.791	mS/cm	
SW3	downstream	pH	13.09.13		8.2	pH	units
SW3	downstream	Total Suspended Solids	13.09.13		2	mg/l	
SW3	downstream	Sulphate	13.09.13		50.8	mg/l	SO4
SW3	downstream	Total Phosphorous	13.09.13		0.05	mg/l	P
SW3	downstream	Orthophosphate	13.09.13			mg/l	P
SW3	downstream	Nitrate	13.09.13				
SW3	downstream	Nitrite	13.09.13				
SW3	downstream	Cadmium	13.09.13		0.5	ug/l	
SW3	downstream	Calcium	13.09.13		144	mg/l	
SW3	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/l	
SW3	downstream	Manganese	13.09.13		9	ug/l	
SW3	downstream	Mercury	13.09.13		0.1	ug/l	
SW3	downstream	Potassium	13.09.13		10	mg/l	
SW3	downstream	Sodium	13.09.13		24	mg/l	
SW3	downstream	Alkalinity	13.09.13		344	mg/l	CaCO3
SW3	downstream	Total Oxidised Nitrogen	13.09.13			mg/l	N
SW3	downstream	Zinc	13.09.13			ug/l	
SW3	downstream	List 1 & 2 Organics	13.09.13				
SW3	downstream	Nickel	13.09.13		4	ug/l	
SW3	downstream	Total Ammonia as N	13.09.13			mg/l	
SW3	downstream	Boron	13.09.13		78	mg/l	SO4
SW3	downstream	DO	1.5.13		8.83	mg/l	
SW3	downstream	Ammonical Nitrogen	1.5.13		2	mg/l	N
SW3	downstream	BOD	1.5.13		1	mg/l	O2
SW3	downstream	COD	1.5.13		27	mg/l	O2
SW3	downstream	Chloride	1.5.13		28.5	mg/l	C1
SW3	downstream	Conductivity	1.5.13		702	mS/cm	
SW3	downstream	pH	1.5.13		8	pH	units
SW3	downstream	Total Suspended Solids	1.5.13		4	mg/l	
SW3	downstream	Sulphate	1.5.13		30.8	mg/l	SO4
SW3	downstream	DO	11.04.13		7.6	mg/l	
SW3	downstream	Ammonical Nitrogen	11.04.13		7.39	mg/l	N
SW3	downstream	BOD	11.04.13		1	mg/l	O2
SW3	downstream	COD	11.04.13		40	mg/l	O2
SW3	downstream	Chloride	11.04.13		41.2	mg/l	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/l	
SW3	downstream	Sulphate	11.04.13		41.7	mg/l	SO4
SW4	downstream	DO	13.9.13		8.67	mg/l	sat
SW4	downstream	Ammonical Nitrogen	13.9.13		5.67	mg/l	N
SW4	downstream	BOD	13.9.13		1	mg/l	O2
SW4	downstream	COD	13.9.13		46	mg/l	O2
SW4	downstream	Chloride	13.9.13		46.2	mg/l	C1

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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	4	mg/l	
SW4	downstream	Sulphate	13.9.13	66.8	mg/l SO4	
SW4	downstream	Total Phosphorous	13.9.13	0.05	mg/l P	
SW4	downstream	Orthophosphate	13.9.13		mg/l P	
SW4	downstream	Nitrate	13.9.13			
SW4	downstream	Nitrite	13.9.13			
SW4	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	downstream	Copper	13.9.13	1	ug/l	
SW4	downstream	Iron	13.9.13	87.7	ug/l	
SW4	downstream	Lead	13.9.13	0.5	ug/l	
SW4	downstream	Magnesium	13.9.13	18	mg/l	
SW4	downstream	Manganese	13.9.13	127	ug/l	
SW4	downstream	Mercury	13.9.13	0.1	ug/l	
SW4	downstream	Potassium	13.9.13	15	mg/l	
SW4	downstream	Sodium	13.9.13	33	mg/l	
SW4	downstream	Alkalinity	13.9.13	420	mg/l CaCO3	
SW4	downstream	Total Oxidised Nitrogen	13.9.13		mg/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	
SW4	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/l O2	
SW4	downstream	COD	27.11.13	40	mg/l O2	
SW4	downstream	Chloride	27.11.13	39.2	mg/l Cl	
SW4	downstream	Conductivity	27.11.13	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/l SO4	
SW4	downstream	DO	11.04.13	8.91	% sat	
SW4	downstream	Ammonical Nitrogen	11.04.13	8.52	mg/l N	
SW4	downstream	BOD	11.04.13	1	mg/l O2	
SW4	downstream	COD	11.04.13	53	mg/l O2	
SW4	downstream	Chloride	11.04.13	38.5	mg/l Cl	
SW4	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/l	
SW4	downstream	Sulphate	11.04.13	46	mg/l SO4	
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/l O2	
SW4	downstream	COD	1.5.13	33	mg/l O2	
SW4	downstream	Chloride	1.5.13	41.1	mg/l Cl	
SW4	downstream	Conductivity	1.5.13	0.839	mS/cm	
SW4	downstream	pH	1.5.13	7.8	pH units	
SW4	downstream	Total Suspended Solids	1.5.13	4	mg/l	
SW4	downstream	Sulphate	1.5.13	41.7	mg/l SO4	
SW5	downstream	DO	1.5.13	8.91	% sat	
SW5	downstream	Ammonical Nitrogen	1.5.13	8.52	mg/l N	
SW5	downstream	BOD	1.5.13	1	mg/l O2	
SW5	downstream	COD	1.5.13	53	mg/l O2	
SW5	downstream	Chloride	1.5.13	38.5	mg/l Cl	
SW5	downstream	Conductivity	1.5.13	0.774	mS/cm	
SW5	downstream	pH	1.5.13	7.4	pH units	
SW5	downstream	Total Suspended Solids	1.5.13	4	mg/l	
SW5	downstream	Sulphate	1.5.13	46	mg/l SO4	
SW5	downstream	DO	11.04.13	7.7	% sat	
SW5	downstream	Ammonical Nitrogen	11.04.13	7.36	mg/l N	
SW5	downstream	BOD	11.04.13	1	mg/l O2	
SW5	downstream	COD	11.04.13	33	mg/l O2	
SW5	downstream	Chloride	11.04.13	41.1	mg/l Cl	
SW5	downstream	Conductivity	11.04.13	0.839	mS/cm	
SW5	downstream	pH	11.04.13	7.8	pH units	
SW5	downstream	Total Suspended Solids	11.04.13	4	mg/l	
SW5	downstream	Sulphate	11.04.13	41.7	mg/l SO4	
SW5	downstream	DO	27.11.13	7.9	% sat	
SW5	downstream	Ammonical Nitrogen	27.11.13	0.014	mg/l N	
SW5	downstream	BOD	27.11.13	1	mg/l O2	
SW5	downstream	COD	27.11.13	10	mg/l O2	
SW5	downstream	Chloride	27.11.13	28.6	mg/l Cl	
SW5	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	mg/l	
SW5	downstream	Sulphate	27.11.13	48.2	mg/l SO4	
SW5	downstream	DO	13.9.13	8.67	% sat	
SW5	downstream	Ammonical Nitrogen	13.9.13	5.67	mg/l N	
SW5	downstream	BOD	13.9.13	1	mg/l O2	
SW5	downstream	COD	13.9.13	46	mg/l O2	

AER Monitoring returns summary template-WATER/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 Phosphorous	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	Manganese	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		121		
	SELECT	SELECT	SELECT		SELECT	SELECT	

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

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

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

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

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

Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data reported to the EPA? If no please detail what areas require improvement in additional information box

4

SELECT	Additional information
--------	------------------------

External/Internal Lab Quality checklist Assessment of results checklist

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

Emission reference no:	Emission released to	Parameter/ Substance>Note 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision therof ^{Note 2}	Licence Compliance criteria	Measured value	Unit of measurement	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

Continuous monitoring

5 Does your site carry out continuous emissions to water/sewer monitoring? Additional Information

SELECT	
--------	--

If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)

6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table W4 below

SELECT	
--------	--

7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?

SELECT	
--------	--

8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

SELECT	
--------	--

Table W4: Summary of average emissions -continuous monitoring

Emission reference no:	Emission released to	Parameter/ Substance	ELV or trigger values in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission for current reporting year (kg)	% change +/- from previous reporting year	Monitoring Equipment downtime (hours)	Number of ELV exceedences in reporting year	Comments
	SELECT	SELECT		SELECT	SELECT	SELECT					
	SELECT	SELECT		SELECT	SELECT	SELECT					

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

Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund testing

dropdown menu click to see options

Additional information

Are you required by your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all **new bunds and containment structures** on site, in **addition to all bunds which failed** the integrity test-**all bunding structures which failed including mobile bunds must be listed in the table below**

- 1 Please provide integrity testing frequency period
- Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore"
- 2 type units and mobile bunds)
- 3 How many bunds are on site?
- 4 How many of these bunds have been tested within the required test schedule?
- 5 How many mobile bunds are on site?
- 6 Are the mobile bunds included in the bund test schedule?
- 7 How many of these mobile bunds have been tested within the required test schedule?
- 8 How many sumps on site are included in the integrity test schedule?
- 9 How many of these sumps are integrity tested within the test schedule?
- 10 **Please list any sump integrity failures in table B1**
- 11 Do all sumps and chambers have high level liquid alarms?
- 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?

Yes	
3 years	
No	
3	
3	
0	
SELECT	
0	
0	
Yes	
Yes	

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

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
Leachate Lagoon	reinforced concrete		Leachate			Hydraulic test		2009	Yes	Pass		SELECT		
Chemstore bund	prefabricated		Paint spills			Hydraulic test		2008	Yes	Pass		SELECT		

*Capacity required should comply with 25% or 100% containment rate as detailed in your licence

Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?

14 Are channels/transfer systems to remote containment systems tested?

15 Are channels/transfer systems compliant in both integrity and available volume?

Commentary	
SELECT	
SELECT	
SELECT	

Pipeline/underground structure testing

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

- 1 Please provide integrity testing frequency period

SELECT	
SELECT	

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

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

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

Groundwater/Soil monitoring template

Lic No:

W0067-02

Year

2013

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

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
	MW2	D.O.	accredited laboratory	Q	4.56	3.1	mg/l				
	MW2	pH	accredited laboratory	Q	7.3	7.17					
	MW2	Conductivity	accredited laboratory	Q	0.992	0.88	mS/cm				
	MW2	Ammonical Nitrogen	accredited laboratory	Q	2.2	1.41	mg/l N				
	MW2	Total Ox Nitrogen	accredited laboratory				mg/l N				
	MW2	Chloride	accredited laboratory	Q	111	72.55	mg/l Cl				
	MW2	Total Carbon	accredited laboratory				mg/l				
	MW2	Total Inorganic Carbon	accredited laboratory				mg/l				
	MW2	Total Organic Carbon	accredited laboratory	Q	6.84	5.41	mg/l C				
	MW2	Total Coliforms	accredited 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					
	MW2	Phenols	accredited laboratory			mg/l				
	MW2	Sodium	accredited laboratory	Q	40	26.75	mg/l			
	MW2	Potassium	accredited laboratory	Q	12	8	mg/l			
	MW2	Iron	accredited laboratory	A	3040	3040	ug/l			
	MW2	Lead	accredited laboratory	A	8	8	ug/l			
	MW2	List 1&2 Organics	accredited laboratory							
	MW2	Magnesium	accredited laboratory	A	20	20	mg/l			
	MW2	Manganese	accredited laboratory	A	1276	1276	ug/l			
	MW2	Mercury	accredited laboratory	A	0.1	0.1	ug/l			
	MW2	Total Alkalinity	accredited laboratory	A	766	766	mg/l CaCO3			
	MW2	Sulphate	accredited laboratory	Q	43.7	43.7	mg/l SO4			
	MW2	Total Phosphorous	accredited laboratory	A	0.14	0.14	mg/l P			
	MW2	Orthophosphate	accredited laboratory				mg/l PO4			
	MW2	Residue on evaporation	accredited laboratory							
	MW2	Zinc	accredited laboratory	A	32	332	ug/l			
	MW2	Flouride	accredited laboratory	A	0.5	0.5	mg/l F			
	MW2	Calcium	accredited laboratory	A	164	164	mg/l			
	MW2	Cadmium	accredited laboratory	A	0.5	0.5	ug/l			
	MW2	Copper	accredited laboratory	A	6	6	ug/l			
	MW2	Cyanide	accredited laboratory	A	0.009	0.009	mg/l CN			
	MW2	Total Solids	accredited laboratory				mg/l			
	MW2	Boron	accredited laboratory	A	78	78	ug/l			
	MW2	Chromium	accredited laboratory	A	2	2	ug/l			
	MW2	Dissolved Nickel	accredited laboratory				ug/l			
	MW2	Total Nickel	accredited laboratory	A	4	4	mg/l			

Groundwater/Soil monitoring template			Lic No: W0067-02		Year 2013					
	MW2	nitrate as no3	accredited laboratory				mg/l			
	MW2	nitrite as no2	accredited laboratory				mg/l			
	MW2	SVOC	accredited laboratory	A	2	2	ug/l			
	MW2	VOC	accredited laboratory	A	1	1	ug/l			
	MW2	Pesticides (OCP)	accredited laboratory	A	2	2	ng/l			

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
	MW3	D.O.	accredited laboratory	Q	3.12	2.63	mg/l				
	MW3	pH	accredited laboratory	Q	6.8	6.8					
	MW3	Conductivity	accredited laboratory	Q	0.919	0.911	mS/cm				
	MW3	Ammonical Nitrogen	accredited laboratory	Q	0.45	0.375	mg/l N				
	MW3	Total Ox Nitrogen	accredited laboratory				mg/l N				
	MW3	Chloride	accredited laboratory	Q	18.6	18.36	mg/l Cl				
	MW3	Total Carbon	accredited laboratory				mg/l				
	MW3	Total Inorganic Carbon	accredited laboratory				mg/l				
	MW3	Total Organic Carbon	accredited laboratory	Q	2.89	2.78	mg/l C				
	MW3	Mercury	accredited laboratory	A	0.1	0.1	ug/l				
	MW3	Faecal Coliforms	accredited laboratory	Q	10	4	No/100ml				
	MW3	Total Coliforms	accredited laboratory	Q	260	86.66	No/100ml				
	MW3	Sodium	accredited laboratory	Q	18	13	mg/l				
	MW3	Potassium	accredited laboratory	Q	9	5.66	mg/l				

Groundwater/Soil monitoring template			Lic No:	W0067-02	Year	2013				
	MW3	Phenols	accredited laboratory				mg/l			
	MW3	Total Phosphorous	accredited laboratory	A	0.06	0.06	mg/l P			
	MW3	Boron	accredited laboratory	A	107	107	ug/l			
	MW3	Cadmium	accredited laboratory	A	0.5	0.5	ug/l			
	MW3	Calcium	accredited laboratory	A	211	211	mg/l			
	MW3	Chromium	accredited laboratory	A	1	1	ug/l			
	MW3	Copper	accredited laboratory	A	12	12	ug/l			
	MW3	Iron	accredited laboratory	A	13270	13270	ug/l			
	MW3	Lead	accredited laboratory	A	2	2	ug/l			
	MW3	Magnesium	accredited laboratory	A	14	14	mg/l			
	MW3	Manganeese	accredited laboratory	A	540	540	ug/l			
	MW3	Dissolved Nickel	accredited laboratory				ug/l			
	MW3	Total Nickel	accredited laboratory	A	2	2	mg/l			
	MW3	Zinc	accredited laboratory	A	5	5	ug/l			
	MW3	List 1&2 Organics	accredited laboratory							
	MW3	Total Alkalinity	accredited laboratory	A	522	522	mg/l CaCO3			
	MW3	Sulphate	accredited laboratory	Q	47.1	57.96	mg/l SO4			
	MW3	Orthophosphate	accredited laboratory				mg/l PO4			
	MW3	Residue on evaporation	accredited laboratory							
	MW3	Flouride	accredited laboratory	A	0.2	0.2	mg/l F			
	MW3	Cyanide	accredited laboratory	A	0.009	0.009	mg/l CN			
	MW3	Total Solids	accredited laboratory				mg/l			
	MW3	nitrate as no3	accredited laboratory				mg/1			
	MW3	nitrite as no2	accredited laboratory				mg/1			
	MW3	SVOC	accredited laboratory	A	2	2	ug/l			

Table 3: Soil results

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

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

[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

			Commentary
1	ELRA initial agreement status	Submitted and 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	Insurance with Environmental Impairment Liability cover,	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	Closure plan submitted and agreed by EPA	
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

Noise monitoring summary report Lic No:W0067-02 Year 2013

1 Was noise monitoring a licence requirement for the AER period?
If yes please fill in table N1 noise summary below

2 Was noise monitoring carried out using the EPA Guidance note including completion of the "Checklist for noise measurement report" included in the guidance note as table 6?

[Noise Guidance note NG4](#)

3 Does your site have a noise reduction plan

4 When was the noise reduction plan last updated?

5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site</u> compliant with noise limits (day/evening/night)?
28/08/2013	13.25-13.55	N1		44	40	46		No	SELECT	Road traffic	SELECT
28/08/2013	12.45-13.15	N4		49	44	52		No		Road traffic	
28/08/2013	14.04-14.34	N6		53	45	56		No		Road traffic	
28/08/2013	14.42-15.12	N7		54	43	58		No		Road traffic	
28/08/2013	23.56-00.26	N1		44	40	53		No		Road traffic	
28/08/2013	23.20-23.50	N4		45	42	49		No		Road traffic	
28/08/2013	22.43-23.13	N6		46	44	52		No		Road traffic	
28/08/2013	22.00-22.30	N7		45	40	49		No		Road traffic	

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

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

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

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
- 2 Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information
- 3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

Additional information	
no	
no	

Table R1 Energy usage on site				
Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)				
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
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	
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Volume Discharged back to environment(m ³ yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	333	1317					
Recycled water							
Total							

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

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

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

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

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

WASTE SUMMARY	Lic No:	W0067-02	Year	2013
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES		PRTR facility logon	dropdown list click to see options	

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

Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility?; (waste generated within your 1 boundaries is to be captured through PRTR reporting)

If yes please enter details in table 1 below

2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information

3 Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information

Table 1 Details of waste accepted onto your site for recovery, disposal or treatment (do not include wastes generated at your site, as these will have been reported in your PRTR workbook)

Licensed annual tonnage limit for your site (total tonnes/annum)	EWC code	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 -
	European Waste Catalogue EWC codes										

SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES

4 Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite

5 Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site

6 Does your facility have relevant nuisance controls in place?

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

8 Do you maintain a sludge register on site?

SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and tonnage-landfill only

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments
Non Hazardous	45,000	35,850	3,500	

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type
										m2	m2	m2	
Cell 3 A	23-Apr-12		Yes	Public	Non Hazardous	Feb-14	No	No	No	14000	14000	0	

WASTE SUMMARY		Lic No:	W0067-02	Year	2013
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Table 4 Environmental monitoring-landfill on [Landfill Manual-Monitoring Standards](#)

Was meteorological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments
yes	yes	yes	yes	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 final cap to LD Standard m2 ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					
0	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?

SELECT
SELECT

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

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments
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

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



[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.17

REFERENCE YEAR	2013
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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

No.	class_name
3.1	Deposit on, in or under land (including landfill).
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced. Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.
3.5	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
4.13	Recycling or reclamation of metals and metal compounds.
4.3	Recycling or reclamation of other inorganic materials.
4.4	
Address 1	Rathroeen
Address 2	Ballina
Address 3	Co Mayo
Address 4	
	Mayo
Country	Ireland
Coordinates of Location	-6.11271 52.9597
River Basin District	IEWE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Michael Hegarty
AER Returns Contact Email Address	mhegarty@mayococo.ie
AER Returns Contact Position	Senior Executive Technician,
AER Returns Contact Telephone Number	0872046722
AER Returns Contact Mobile Phone Number	0872046722
AER Returns Contact Fax Number	09624056
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	6
User Feedback/Comments	Changed flare Aug 2013, doubled the size to 600m3, therefore diff in amount flared
Web Address	

2. PRTR CLASS ACTIVITIES

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

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

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

4. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

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

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

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0067 | Facility Name : Rathroeen Landfill | Filename : 2013_AER-v1.xls | Return Year : 2013 |

28/03/2014 12:14

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs				
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	QUANTITY			
			Method Code	Designation or Description		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)	C	OTH	Gasim		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

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

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

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

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

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

Additional Data Requested from Landfill operators

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

Landfill:		Rathroeen Landfill				
Please enter summary data on the quantities of methane flared and / or utilised		T (Total) kg/Year	M/C/E	Method Used		Facility Total Capacity m3 per hour
				Method Code	Designation or Description	
Total estimated methane generation (as per site model)		783739.51	E	Est	Gasim	N/A
Methane flared		562552.0	E	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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

[PRTR# : W0067 | Facility Name : Rathroeen Landfill | Filename : 2013_AER-v1.xls | Return Year : 2013]

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Please enter all quantities on this sheet in Tonnes

0

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

Within the Country	20 01 32	No	2.78 medicines other than those mentioned in 20 01 31	D10	M	Weighed	Offsite in Ireland	Eco Safe Systems,W0054-02	Unit 1,Allied Ind Est,Kylemore Rd,Dublin 10,Ireland
Within the Country	20 01 33	Yes	3.98 batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-02	Cappinure Ind Estate,Daingean Rd,Tullamore,Offaly,Ireland
Within the Country	20 01 33	Yes	3.78 batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	R4	M	Weighed	Offsite in Ireland	Rialta,W0192-02	KMK Metals,W0113-02,Cappinure Ind Estate,Daingean Rd,Tullamore,Offaly,Ireland
Within the Country	20 01 36	No	175.0 discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-02	Greenouge Ind Estate,Rathcoole,Dublin,Dubl in,Ireland
Within the Country	20 01 36	No	0.0 discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-02	Cappinure Ind Estate,Daingean Rd,Tullamore,Offaly,Ireland
Within the Country	20 01 39	No	21.12 plastics (Hard plastics)	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Cappinure Ind Estate,Daingean Rd,Tullamore,Offaly,Ireland
Within the Country	20 01 40	No	79.55 metals (scrap metals)	R4	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Greenouge Ind Estate,Rathcoole,Dublin,Dubl in,Ireland
Within the Country	20 02 01	No	0.0 biodegradable waste (green waste)	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Greenouge Ind Estate,Rathcoole,Dublin,Dubl in,Ireland
Within the Country	20 03 01	No	1122.08 mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Rathroeen Landfill,W0067-2	Greenouge Ind Estate,Rathcoole,Dublin,Dubl in,Ireland
Within the Country	20 03 03	No	0.0 m	D1	M	Weighed	Offsite in Ireland	Mayo County Councils Area Offices,EXM	Greenouge Ind Estate,Rathcoole,Dublin,Dubl in,Ireland
Within the Country	17 08 02	No	9.54 gypsum-based construction materials other than those mentioned in 17 08 01	R5	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Greenouge Ind Estate,Rathcoole,Dublin,Dubl in,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
PART ONE - GENERAL COMPANY INFORMATION

SECTION 1: GENERAL QUESTIONS

Q1. Year to which Data Applies: Calendar Year 2013

Q2. Company Name (and trade name if applicable):

Q3. Facility name and waste licence reg. no.:

Q4. Contact Name for queries on this survey:

Q5. Telephone Numbers (Landline & Mobile):

Q6. E-mail:

Q7. Waste Activities Only:

Q8. Were any wastes accepted at the landfill facility in 2013 for onsite recovery? Yes **YES**, please specify the waste types recovered:

Q9. Was there a civic amenity facility onsite and operational in 2013? Yes **YES**, please detail these wastes on Part 3 of this Survey

Q10. Was there a waste transfer station onsite and operational in 2013? No **YES**, please detail these wastes on Part 4 of this Survey

Q11. Was there a compost facility onsite and operational in 2013? No **YES**, please detail these wastes on Part 5 of this Survey

Q12. Remaining consented disposal capacity of the landfill (tonnes):

Q13. If the capacity data is only available in terms of volume (m³), then you must note the most up-to-date waste density figures being achieved in tonnes per cubic metre (tpm):

Q14. Are there any other waste activities or infrastructure on-site (e.g. sorting, incineration, waste transfer station, etc.) but excluding landfill related activities such as gas flaring, leachate treatment? Yes **YES**, please describe:

Q15. Did this landfill close in 2013? No **YES**, please advise date of closure:

Finally, please confirm that you have read the 'Important WfR sheet':

THE FOLLOWING SECTION SHOULD ONLY BE COMPLETED WHERE A WASTE TRANSFER STATION IS LOCATED AT THE LANDFILL

SECTION 2: WASTE TRANSFER STATION (WTS)

Q1. WAS WASTE ACCEPTED AT THE WTS IN 2013? PLEASE SELECT **YES, YOU MUST COMPLETE SHEET 4A (INCOMING) AND SHEET 4B (OUTGOING)**

Q2. WAS WASTE IN STORAGE AT THE WTS AT THE START OR END OF 2013? PLEASE SELECT **YES, YOU MUST COMPLETE SHEET 4C (STORAGE)**

Q3. WHAT WASTE ACTIVITIES WERE CARRIED OUT AT THE WTS IN 2013?

ADDITIONAL INFORMATION - Please include any additional useful information on the data provided. This may minimise the extent of validation and follow-up required.

** PLEASE NOW COMPLETE THE RELEVANT SURVEY SHEETS (Parts 4A TO 4C), AS INDICATED ABOVE **

MASS BALANCE AT WASTE TRANSFER STATION

This calculates automatically, based on the data you have inputted into the relevant sheets (Parts 4A, 4B and 4C)

Total Inlets:	0.00	(Part 4A: INCOMING WASTE)	Total outputs:	0.00	(Part 4B: OUTGOING WASTE)
	+			+	
	0.00	(Part 4C: STORAGE START 2013)		0.00	(Part 4C: STORAGE END 2013)
	-----			-----	
	0.00	(TONNES)		0.00	(TONNES)
Difference (tonnes):	0.00	% Difference: #DIV/0!			

Please provide an explanation below for any large (greater than 5%) differences in the mass balance:

- | | |
|-----|---|
| D1 | D1 Landfill |
| D2 | D2 Land Treatment |
| D3 | D3 Incineration |
| D4 | D4 Deepwell Injection |
| D5 | D5 Landfill to Landfill |
| D6 | D6 Release to waters |
| D7 | D7 Release to sea |
| D8 | D8 Biological Treatment |
| D9 | D9 Physical/chemical treatment |
| D10 | D10 Incineration on land |
| D11 | D11 Incineration at sea |
| D12 | D12 Permanent storage (i.e., entombment of containers in a mine, etc.) |
| D13 | D13 Blending or mixing prior to submission to any of the operations numbered D1-D12 |
| D14 | D14 Repackaging prior to submission to any of the operations numbered D1-D12 |
| D15 | D15 Storage pending any of the operations numbered D1-D12 |
| R1 | R1 Use as a fuel |
| R2 | R2 Solvent recovery |
| R3 | R3 Organic substance recycling |
| R4 | R4 Metal recovery |
| R5 | R5 Inorganic substance recycling |
| R6 | R6 Regeneration of acids or bases |
| R7 | R7 Recovery of components used for pollution abatement |
| R8 | R8 Recovery of components from catalysts |
| R9 | R9 Used as feedstock or other residues of previously used oil |
| R10 | R10 Landspreading |
| R11 | R11 Use of residuals |
| R12 | R12 Waste Exchange prior to recovery |
| R13 | R13 Storage prior to recovery |

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

Section A. Kerbside collections (this means any waste delivered directly from the household, business or other premises where it was first generated, but not from another waste facility)									
Name of EACH collector delivering waste directly from kerbside	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 1: 1 ABC Recycling Ltd	Household	Residual mixed municipal waste (Fraction from Household customers)	20 03 01	5,000		SELECT	5,000	D05	
Example 1: 2 ABC Recycling Ltd	Commercial	Residual mixed municipal waste (Fraction from Commercial customers)	20 03 01	5,000		SELECT	5,000	D05	
3 Ballina Town Council	Litter/street sweepings	Litter / street sweepings	20 03 03	552.88		SELECT	553	D05	
4 Western Care	Household	household waste from Western care houses	20 03 01	14.48		SELECT	14	D05	
5 Cluid Housing Association	Household	Black bin waste	20 03 01	3.06		SELECT	3	D05	0
6 Mayo County Councils areas	Other (please specify)	treated solids from water treatment plants	19 09 02	1026.85			1,027	D01	0
7 Sligo County Council	Fly-tipped material	fly tipped material	20 03 01	6.94		SELECT	7	D05	0
8 Mayo Tidy Towns	Fly-tipped material	fly tipped material	20 03 01	50.22		SELECT	50	D05	0
9 Mayo County Councils areas	Litter/street sweepings	Litter/street sweepings	20 03 03	544	0	SELECT	544	D05	0
10 Inland Fisheries Ireland	Household	household waste from Western care houses	20 03 01	0.1		SELECT	0	D05	
11 JJSweeney	Household	Domestic waste from 2 and 3 bin collections	20 03 01	483.16			483	D05	0
12 Stanley Bourke	Household	Domestic waste from 2 and 3 bin collections	20 03 01	1087.14	0		1,087	D05	0
13 McGrath Industrial Waste	Household	Domestic waste from 2 and 3 bin collections	20 03 01	3269.08			3,269	D05	0
14 McGrath Industrial Waste	Commercial	commercial 2 & 3 bin collections	20 03 01	3017.6			3,017	D05	0
15 Barna	Household	Domestic waste from 2 and 3 bin collections	20 03 01	3075.09			3,075	D05	0
16 Barna	Commercial	commercial 2 & 3 bin collections	20 03 01	2838.55			2,839	D05	0
17 Loftus Waste	Household	Domestic waste from 2 and 3 bin collections	20 03 01	1967.15			1,967	D05	0
18 Loftus Waste	Commercial	commercial 2 & 3 bin collections	20 03 01	843.07			843	D05	0
19	SELECT		SELECT			SELECT		SELECT	
20	SELECT		SELECT			SELECT		SELECT	
21	SELECT		SELECT			SELECT		SELECT	
22	SELECT		SELECT			SELECT		SELECT	
23	SELECT		SELECT			SELECT		SELECT	
24	SELECT		SELECT			SELECT		SELECT	
25	SELECT		SELECT			SELECT		SELECT	
26	SELECT		SELECT			SELECT		SELECT	
27	SELECT		SELECT			SELECT		SELECT	
28	SELECT		SELECT			SELECT		SELECT	
29	SELECT		SELECT			SELECT		SELECT	
30	SELECT		SELECT			SELECT		SELECT	
31	SELECT		SELECT			SELECT		SELECT	
32	SELECT		SELECT			SELECT		SELECT	
33	SELECT		SELECT			SELECT		SELECT	
34	SELECT		SELECT			SELECT		SELECT	
35	SELECT		SELECT			SELECT		SELECT	
36	SELECT		SELECT			SELECT		SELECT	
37	SELECT		SELECT			SELECT		SELECT	
38	SELECT		SELECT			SELECT		SELECT	
39	SELECT		SELECT			SELECT		SELECT	
40	SELECT		SELECT			SELECT		SELECT	

Section B. Waste from waste facilities (this means any waste delivered from another waste facility, whether it was treated there or not)									
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: 1 Recycle More Ltd W0450-01	Household	Residual waste from mechanical processing of residual municipal solid waste (Fraction from Household customers)	19 12 12	550		SELECT	550	D05	
Example 2: 2 Recycle More Ltd W0450-01	Commercial	Residual waste from mechanical processing of residual municipal solid waste (Fraction from Commercial customers)	19 12 12	450		SELECT	450	D05	
Example 3: 3 Waste Processing Ltd	Household	Inert fines from processing of skip waste (Fraction from Household customers)	19 12 12	350	350	R05		SELECT	
Example 3: 4 Waste Processing Ltd	Commercial	Inert fines from processing of skip waste (Fraction from Commercial customers)	19 12 12	250	250	R05		SELECT	
Example 3: 5 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 Derrinnumera Civic Amenity Site	Household	Bulky waste from CA site	20 03 07	1671.82		SELECT	1,672	D05	0
7 Derrinnumera Street Cleanings	Litter/street sweepings	Litter/street sweepings	20 03 03	73.28		SELECT	73	D05	0
8 OCR Waste Management	Commercial	commercial waste from skip collections	20 03 01	201		SELECT	201	D05	0
9 Ballinrobe Waste	Household	Domestic waste from 2 and 3 bin collections	20 03 01	2479.72		SELECT	2,480	D05	0
10 Ballinrobe Waste	Commercial	commercial waste from skip collections	20 03 01	1653.16		SELECT	1,653	D05	0
11 McGrath Industrial Waste	Household	Domestic waste from 2 and 3 bin collections	20 03 01	1766.55			1,767	D05	0
12 McGrath Industrial Waste	Commercial	commercial 2 & 3 bin collections	20 03 01	1630.67			1,631	D05	0
13 Barna	Household	Domestic waste from 2 and 3 bin collections	20 03 01	2425.35			2,425	D05	0
14 Barna	Commercial	commercial 2 & 3 bin collections	20 03 01	2238.79			2,239	D05	0
15 Loftus Waste	Household	Domestic waste from 2 and 3 bin collections	20 03 01	1265.44			1,265	D05	0
16 Loftus Waste	Commercial	commercial 2 & 3 bin collections	20 03 01	542.34			542	D05	0
17 Rathroen Civic Amenity Site	Household	Bulky waste from CA site	20 03 07	1122.08		SELECT	1,122	D05	0
18 McGrath Industrial Waste	Other (please specify)	Timber from commercial sources	20 01 38	175.56	175.56	R03			
19 MCC Derrinnumera CA	Other (please specify)	Timber from commercial sources	20 01 38	53.12	53.12	R03			
20 Stanley Bourke	Other (please specify)	Timber from commercial sources	20 01 38	87.2	87.2	R03			
21 MCC Rathroen CA	Other (please specify)	Timber from commercial sources	20 01 38	224.44	224.44	R03		SELECT	
22 Loftus Recycling	Other (please specify)	Timber from commercial sources	20 01 38	127.94	127.94	R03			
23 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 Amenity 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 [Part 2, Section B](#) of this survey.

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

Batteries	<i>Portable batteries weigh <2kg, are sealed, are not exclusively designed to propel an electrical vehicle, and are not intended to be used for automotive starter, lighting or ignition power.</i>		<u>7.72</u>		
<i>lead acid batteries and accumulators</i>	16 06 01*	<i>portable</i>			
		<i>non-portable (automotive and industrial)</i>	3.74	Rialta - W0192-02	
<i>Ni-Cd batteries and accumulators</i>	16 06 02*	<i>portable</i>	3.98	KMK W0113-03	
		<i>non-portable (automotive and industrial)</i>			
<i>Other (e.g. alkaline) batteries and accumulators</i>	16 06 04	<i>portable</i>			
		<i>non-portable (automotive and industrial)</i>			
Waste mineral oils	13 02 05*	<i>lubrication, vehicle, machine, etc.</i>	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 compile tonnages of WEEE collected by WEEE Ireland or ERP from civic amenity sites from the compliance schemes and therefore this tonnage should not be reported here.				
<i>WEEE taken off-site by charities (e.g. mobile phones)</i>	<i>various</i>				
Plasterboard (gypsum-based construction materials)	17 08 02		9.54	Barna Waste, Carrowbrowne, Headford Rd. Galway W0106-02	
Bulky waste	20 03 07	<i>e.g. furniture, mattresses, mixed bulky waste</i>			
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 categories not included above>	<enter EWC code>				
<other categories not included above>	<enter EWC code>				
<other categories not included above>	<enter EWC code>				

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	Rathreeen 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 engines	0 kg/year

Please note that the closing date for receipt 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 up to date information on methane flaring and recovery in utilisation plants at landfill 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:

LFGProject@epa.ie

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

LFGProject@epa.ie

to be filled in by licensee calculated by spreadsheet

Flare No. 1

Flare type ? **Organics 300m3/hr Enclosed Flare**

Is the flare an open or enclosed flare ? Rated flare capacity ? m3/hr

Month /year comissioned ?

Month decomissioned if decomissioned in 2013 ?

What is the function of the flare ? **if "other" enter flare function here**

Monthly	Method M/C/E	Runtime days/month	Runtime hrs/day	Downtime hrs	Total runtime hrs/month	Average Inlet Pressure (mbg)	Average Flow Rate (m ³ /hr)	Average CH ₄ %v/v	Average CO ₂ %v/v	Average O ₂ %v/v	Combustion efficiency (%)	Total CH ₄ m ³	Total CH ₄ kgs
January	M	31	24.0	1.0	743	-70	180	44.00	28.00	1.00	98.0	57,669	37,067
February	m	28	24.0	1.0	671	-70	180	45.00	28.00	2.00	98.0	53,264	34,235
March	m	31	24.0	1.0	743	-60	200	42.00	29.00	1.00	98.0	61,164	39,730
April	m	30	24.0	0.0	720	-60	200	42.00	29.00	2.00	98.0	59,270	38,500
May	m	31	24.0	1.0	743	-32	280	40.00	29.00	2.00	98.0	81,552	54,529
June	m	30	24.0	2.0	718	-35	290	41.00	28.00	2.00	98.0	83,663	55,770
July	m	31	24.0	1.0	743	-32	280	40.00	28.00	2.00	98.0	81,552	54,529
August					0						98.0	0	0
September					0						98.0	0	0
October					0						98.0	0	0
November					0						98.0	0	0
December					0						98.0	0	0
Total					5,081							478,133	314,359

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

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

to be filled in by licensee calculated by spreadsheet

Flare No. 2

Flare type ? Other

Is the flare an open or enclosed flare ? Enclosed **Biogas 600m3/hr Enclosed Flare**

Rated flare capacity ? 600 m3/hr

Month /year comissioned ? August 2013

Month decomissioned if decomissioned in 2013 ? Select

What is the function of the flare ? Odour control **If "other" enter flare function here**

Monthly	Method M/C/E	Runtime days/month	Runtime hrs/day	Downtime hrs	Total runtime hrs/month	Average Inlet Pressure (mbg)	Average Flow Rate (m ³ /hr)	Average CH ₄ %v/v	Average CO ₂ %v/v	Average O ₂ %v/v	Combustion efficiency (%)	Total CH ₄ m ³	Total CH ₄ 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	M	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 available or cannot be calculated nor estimated on a monthly basis

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