

**2015**

**ANNUAL ENVIRONMENTAL REPORT  
(AER)**



EPA Licence No.  
**P0382-01**

**CLW Environmental Planners Ltd.**

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**MR ANTON KIERNAN  
CARROWCUSHCLY PIG  
UNIT  
CARROWCUSHCLY  
BALLYMOTE  
CO SLIGO**

**MR. ANTONE KIERNAN**

**LICENCE REG. NO. P0382-01**

**ANNUAL ENVIRONMENTAL REPORT (A.E.R.)**

**1<sup>ST</sup> JANUARY 2015 – 31<sup>ST</sup> DECEMBER 2015**

**I. PREFACE**

This report is provided to comply with Condition No. 2.4.2 of the Industrial Emissions Licence (Reg. No. P0382-01) issued to Mr Antone Kiernan This condition is as follows;

***“The licensee shall submit to the Agency, eighteen months from the date of grant of this licence, and each calendar year by 1 November thereafter, an AER which shall be to the satisfaction of the Agency. This report shall include as a minimum the information specified in Schedule 5(i) Recording & Reporting to the Agency and shall be prepared in accordance with any relevant guidelines issued by the Agency.”***

In January 2012 the EPA produced a Draft Guidance Document ‘Annual Environmental Report: Standardised Reporting Guidance’ together with an accompanying template for a standardised AER Report for IPPC (and Waste) licensed facilities. This standardised the submission date for AER’s to 31<sup>st</sup> March of each year. This AER has been prepared in accordance with this draft guidance and in line with the standardised reporting format outlined in this document. As such the template as updated in January 2013 for summary emissions and licence specific reports has been completed for this site and is included in this Report. As requested in the guidance document this report includes only the summary information requested and all other associated documentation has been retained on site and is available for inspection if required.

**II. REPORT CONTENT**

In line with the *Standardised Reporting Guidance* this AER contains the following summary information.

1. Facility Summary Information
2. Air Emissions
3. Water
4. Bund Test (Intensive Agriculture)
5. Complaints – Incidents
6. Groundwater
7. Resource & Energy Use
8. Waste

**Attachment A**

**PRTR Workbook & Emissions Calculation Sheet**

**Facility Information Summary**

AER Reporting Year	2015
Licence Register Number	P0382-01
Name of site	Mr. Anton Kiernan
Site Location	Carrowcushcly, Ballymote, Co. Sligo
NACE Code	0146
Class of Activity	The rearing of pigs in an installation, whether within the same complex or within 100 metres of the same complex, where the capacity exceeds 285 places for sows in an integrated unit and 2,000 places for production pigs.
National Grid Reference (6E, 6 N)	-8.53382 54.1230

A brief description of the activities/process at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance improvements which were measured during the reporting year;

Pig Unit with capacity for 592 sows.

Stock numbers-please enter **average** stock numbers and stock type e.g. Suckling sow+litter, Dry sow, Boars, Maiden gilts, Weaners , Finishers, broiler,layer,duck

**As per PRTR Returns**

Please state date of last stock count


**Average 01/01/15 - 31/12/15**

Please enter stock numbers and type at last count

**As per average numbers**

**Declaration:**

All the data and information presented in this report has been provided by the Licensee. The information is presented to meet licence requirements.

	31st March 2016
<b>Signature</b> Consultant <small>(or nominated, suitably qualified and experienced deputy)</small>	<b>Date</b>

Additional information

<p>1 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 W1 below summarising <u>only any evidence of contamination noted during visual inspections</u></p>	Yes	Yes
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**Table W1 Visual inspections-Please only enter details where contamination was observed.**

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
		None Recorded	SELECT		
			SELECT		

<p>2 Is it a requirement of your licence to carry out discharge to surface water monitoring? If Yes please complete Table W2 below</p>	No
<p>3 Please state what frequency you are required to complete surface water monitoring</p>	

**Table W2: Storm/Surface water discharge monitoring**

Surface water EQS

Please enter details only where results indicate contamination has occurred

Emission reference no:	Parameter/ SubstanceNote 1	Date of Monitoring	Measured value	Unit of measurement	Comments	Description of contamination	Corrective action
SWA	COD	27/03/2015	1	mg/L			
SWA	Total P	27/03/2015	0.07	mg/L			
SWA	Amonia	27/03/2015	0.01	mg/L			
SWB	COD	27/03/2015	3	mg/L			
SWB	Total P	27/03/2015	0.08	mg/L			
SWB	Amonia	27/03/2015	0.002	mg/L			
SWC	COD	27/03/2015	6	mg/L			
SWC	Total P	27/03/2015	0.11	mg/L			
SWC	Amonia	27/03/2015	0.05	mg/L			
SWA	COD	16/06/2015	7	mg/L			
SWA	Total P	16/06/2015	0.33	mg/L			
SWA	Amonia	16/06/2015	0.251	mg/L			
SWB	COD	16/06/2015	<1	mg/L			
SWB	Total P	16/06/2015	0.31	mg/L			
SWB	Amonia	16/06/2015	0.255	mg/L			
SWC	COD	16/06/2015	2	mg/L			
SWC	Total P	16/06/2015	0.42	mg/L			
SWC	Amonia	16/06/2015	0.255	mg/L			
SWA	COD	29/09/2015	<1	mg/L			
SWA	Total P	29/09/2015	0.08	mg/L			
SWA	Amonia	29/09/2015	0.791	mg/L			
SWB	COD	29/09/2015	7	mg/L			

WATER-summary template					Lic No:	P0382-01	Year	2015
SWB	Total P	29/09/2015	0.53	mg/L				
SWB	Amonia	29/09/2015	0.671	mg/L				
SWC	COD	29/09/2015	4	mg/L				
SWC	Total P	29/09/2015	0.05	mg/L				
SWC	Amonia	29/09/2015	0.792	mg/L				
SWA	COD	23/11/2015	1	mg/L				
SWA	Total P	23/11/2015	0.06	mg/L				
SWA	Amonia	23/11/2015	0.007	mg/L				
SWB	COD	23/11/2015	8	mg/L				
SWB	Total P	23/11/2015	0.07	mg/L				
SWB	Amonia	23/11/2015	0.002	mg/L				
SWC	COD	23/11/2015	10	mg/L				
SWC	Total P	23/11/2015	0.08	mg/L				
SWC	Amonia	23/11/2015	0.006	mg/L				

4	Is it a requirement of your licence to carry out licenced emissions monitoring? If Yes please complete Table W3 below	No	
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**Table W3: Licenced monitoring**

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Date of Monitoring	ELV or trigger values in licence or any revision thereof <sup>Note 1</sup>	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
	SELECT	SELECT			SELECT		SELECT	SELECT	
	SELECT	SELECT			SELECT		SELECT	SELECT	
	SELECT	SELECT			SELECT		SELECT	SELECT	

Note 1: Where Emission Limit Values (ELV) do not apply to your licence please compare results against EQS for Surface water or relevant receptor quality standards. Trigger values may be agreed by the Agency outside of licence conditions

<b>Tank and Pipeline assessment reporting</b>	Lic No:	P0382-01	Year:	2015
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**Answer all questions and complete Tables TP1,TP2 and TP3 as applicable** Additional information if required

1	Is it a requirement of your licence to carry out a tank and pipeline assessment for effluent storage on site?	Yes	
2	Is it a requirement of your licence to submit a programme for agreement to the Agency prior to carrying out a tank and pipeline assessment?	Yes	No
3	If Yes to Q2 has a programme been submitted to the Agency for agreement on the testing and inspection of under and over-ground effluent storage tanks and pipelines? Please enter date of submission in additional information	No	
4	What method has been proposed for the assessment of under and over ground effluent storage tanks and pipelines?		
5	Have all structures been assessed for integrity in the past five years or as required by the licence. If no, please identify the structures which have not been assessed as required, in the Additional Information column. Also in the column, please state the date on which assessment was carried out.	No	
6	If Visual inspection was the method used were any cracks or defects detected? If yes please detail in additional information	No	
7	If yes to Q6 have the cracks or defects been repaired successfully? If no please explain in additional information	SELECT	N/a
8	If hydrogeological or geophysics investigation methods were used was there any evidence of contamination detected? If yes please detail in additional information	SELECT	N/a
9	If yes to Q8 please detail proposed or completed remediation work in additional information		N/a
10	Are there any leak detection systems on site? Please see Department of Agriculture's S126 and EPA guidance on Storage and Bunding of materials for required systems	<a href="#">S126.pdf</a>	<a href="#">bundling and storage guidelines</a>
11	Does the leak detection system serve all housing units on site? (please state in the comments section number of units covered by the leak detection system and total number of units on site)	No	N/a
12	From the visual inspections carried out has any discharge been visible in the leak detection inspection chamber? If yes please enter details in table TP2	No	None observed
13	Was it a requirement of your licence to analyse samples for the current reporting year. If yes please enter details of any samples taken in table TP3 below	Yes	See details below
14	When is the next tank and pipeline assessment due?		Requirements currently under review by EPA
15	Does the licensee consider they are compliant with licence conditions?	Yes	
16	Include details of any other findings of report		None

**Table TP1: Underground and Overground Tanks, Bund and pipeline register ALL Facilities to complete**

Bund/Tank/Containment structure ID (this includes pipelines associated with Bunds/Tanks or containment structures)	Product containment	Type of integrity assessment	assessment date	Leak detection on containment structure?	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken
Hse 1A	Liquid Manure	Combination	-	No	-	-		
Hse 1B	Liquid Manure	Combination	-	No	-	-		
Hse 1C								
Hse 1D								
Hse 3	Liquid Manure	Combination	-	No	-	-		
Hse 4	Liquid Manure	Combination	-	No	-	-		
Hse 5	Liquid Manure	Combination	-	No	-	-		
Hse 6	Liquid Manure	Combination	-	No	-	-		
Hse 7	Liquid Manure	Combination	-	No	-	-		
Hse 8	Liquid Manure	Combination	-	No	-	-		
Hse 10	Liquid Manure	Combination	-	No	-	-		
Hse 11	Liquid Manure	Combination	-	No	-	-		

**Table TP2: Visual inspection of leak detection chamber (Poultry facilities this table is not applicable please complete table TP1)**

Date	Evidence of discharge	Samples taken (reference in TP3)

**Table TP3: Samples collected from leak detection chamber (Poultry facilities this table is not applicable please complete table TP1)**

Date	Sample frequency	Sample id	Colour/Odour	Parameter	ELV (If applicable)	Measured value



Please complete the table using the explanation of entries below as a guide

**Table OFS.1 Storage capacity for Organic Fertiliser**

Type of Organic Fertiliser	Total organic fertiliser storage capacity (m3)	Opening Quantity of organic fertiliser (1 <sup>st</sup> January of reporting year)	Closing Quantity of organic fertiliser (1 <sup>st</sup> January of current calendar year)	Quantity of organic fertiliser produced by the animals housed on site in reporting year (Organic Fertiliser & Estimated production based on organic fertiliser records and change in storage capacity)	Total quantity of organic fertiliser moved off site in reporting year (as recorded in the organic fertiliser register and "record 3" as submitted to DAFM* )	Where there is a difference between the amount moved off site (record 3 amount) and the amount generated (taking into account opening and closing amounts) provide details to account for this difference, e.g. applying organic fertiliser to Licencee's farmland.	Have records of movement of organic fertiliser (record 3) for the reporting year been submitted to DAFM?
<b>Pig Slurry</b>	<b>13078</b>	<b>6704</b>	<b>6967</b>	<b>7284</b>	<b>8323</b>	<b>Negligible Difference</b>	<b>Yes</b>

\*DAFM -Department of Agriculture Food and Marine

Column **a** The total organic fertiliser storage capacity is calculated by summing storage capacity onsite. If applicable, Agency agreed off-site storage should be added to the total on-site.

Column **b** This is the opening quantity of organic fertiliser recorded on 1<sup>st</sup> of January of AER reporting year

Column **c** This is the quantity of organic fertiliser at close of reporting year calculated by recording the opening quantity on 1<sup>st</sup> January of the current calendar year

Column **d** This is the quantity of organic fertiliser generated by the animals housed on site in the AER reporting year

Column **e** Total quantity of organic fertiliser moved off site and recorded in the organic fertiliser register and "record 3" as submitted to DAFM\* in AER reporting year

Column **f** If there is a difference between the amount recorded in the Record 3 form submitted (**e**) and the amount recorded by adding together the opening quantity (**b**) and amount generated (**d**) and subtracting the closing quantity (**c**) i.e. if **e** does not match **b + d - c**, account for the mismatch, for example where the unit is applying organic fertiliser on their own landbank

		Comments
1	Are you required to carry out groundwater monitoring as part of your licence requirements? If Yes complete table GW1 below	no
2	Were any results in exceedance of a relevant Groundwater threshold value (GTV) ? <a href="#">Groundwater regulations</a> <a href="#">GTV's</a>	no N/a
3	What measures were taken to investigate the exceedances of GTV's ? detail in additional information section below	SELECT N/a

**Table GW1:Groundwater monitoring results**

Date of sampling	Sample location reference	Parameter/ Substance	Monitoring frequency	unit	GTV's*	SELECT**	Maximum Concentration	Average Concentration
16/06/2015	AGW1	Ammonia	Annually	mg/l			0.009	0.009
16/06/2015	AGW1	Nitrates	Annually	mg/l			0.6	0.6
16/06/2015	AGW1	Faecal Coliforms	Annually	mg/l			0	0

\* 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)

[Groundwater regulations](#) [Drinking water \(private supply\)](#) [Drinking water \(public supply\) standards](#) [Interim Guideline Values \(IGV\)](#)  
[Surface water EQS](#) [GTV's standards](#)

.+ where average indicates arithmetic mean .++ maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year

**Additional Information**

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

**Resource usage/ Energy Efficiency**

Lic No:

P0382-01

Year

2015

**Additional information**

- 1 When did the site carry out the most recent energy efficiency audit?
- 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

-	
no	
SELECT	N/a

Table ER1 Energy usage on site		
Energy Use	Previous year kWh	Current year kWh
Total	0.0	493,572.0
Electricity		479,809.0
Fossil Fuels:		
Heavy Fuel Oil		
Light Fuel Oil		13,763.0
Natural gas		
Coal/Solid fuel		
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 ER2 Water usage on site		
Water use	Previous year m3/yr.	Current year m3/yr.
Groundwater		
Surface water		
Public supply		
Total	0	c.14,500

\* 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 ER3: 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

Answer all questions and fill in the incident summary table 11 below

Complaints			
Have you received any environmental complaints in the current reporting year? If yes please state the total number received during the reporting year	<table border="1"> <tr> <td>No</td> <td></td> </tr> </table>	No	
No			

Total new complaints received during reporting year

Incidents			
Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 11 below	<table border="1"> <tr> <td>No</td> <td></td> </tr> </table>	No	
No			

\*For information on how to report and what constitutes an incident [What is an incident](#)

Table 11: Incidents summary

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

Average 25/6/15 - 31/12/15

**Attachment A**

**PRTR Workbook & Emissions Calculations**



[Guidance to completing the PRTR workbook](#)

# PRTR Returns Workbook

Version 1.1.15

<b>REFERENCE YEAR</b>	2015
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## 1. FACILITY IDENTIFICATION

Parent Company Name	Mr Antone Kiernan
Facility Name	Mr Antone Kiernan
PRTR Identification Number	P0382
Licence Number	P0382-01

### Classes of Activity

No.	class name
-	Refer to PRTR class activities below

Address 1	Carrowcushcly Pig Unit
Address 2	Carrowcushcly
Address 3	Ballymote
Address 4	
	Sligo
Country	Ireland
Coordinates of Location	-8.53382 54.1230
River Basin District	IEWE
NACE Code	0146
Main Economic Activity	Raising of swine/pigs
<b>AER Returns Contact Name</b>	Barbara Olwill
<b>AER Returns Contact Email Address</b>	barbara@clwenvironmental.ie
<b>AER Returns Contact Position</b>	Consultant
<b>AER Returns Contact Telephone Number</b>	049 4371447
<b>AER Returns Contact Mobile Phone Number</b>	
<b>AER Returns Contact Fax Number</b>	
<b>Production Volume</b>	0.0
<b>Production Volume Units</b>	
<b>Number of Installations</b>	0
<b>Number of Operating Hours in Year</b>	0
<b>Number of Employees</b>	1
<b>User Feedback/Comments</b>	
<b>Web Address</b>	

## 2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
Z(a)(ii)	Installations for the intensive rearing of poultry or pigs (ii)
Z(a)(iii)	Installations for the intensive rearing of poultry or pigs (iii)

## 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)?	No
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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# : P0382 | Facility Name : Mr Antone Kiernan | Filename : P0382\_2015.xls | Return Year : 2015 |

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**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

RELEASERS TO AIR		METHOD			Please enter all quantities in this section in KGs			
POLLUTANT		Method Used			QUANTITY			
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
06	Ammonia (NH3)	C	NRB	EPA Calculation Tool	0.0	10522.8	0.0	10,522.8
01	Methane (CH4)	C	NRB	EPA Calculation Tool	0.0	67731.0	0.0	67,731.0
05	Nitrous oxide (N2O)	C	NRB	EPA Calculation Tool	0.0	62.8	0.0	62.8

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

**SECTION B : REMAINING PRTR POLLUTANTS**

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

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

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

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

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

**Additional Data Requested from Landfill operators**

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

Landfill: Please enter summary data on the quantities of methane flared and / or utilised	Mr Antone Kiernan				Facility Total Capacity m3 per hour
	T (Total) kg/Year	M/C/E	Method Code	Designation or Description	
Total estimated methane generation (as per site model)	0.0				N/A
Methane flared	0.0				0.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : P0382 | Facility Name : Mr Antone Kierman | Filename : P0382\_2015.xls | Return Year : 2015 |

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Please enter all quantities on this sheet in Tonnes

6

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Licence/Permit No of Next Destination Facility Haz Waste: Name and Licence/Permit No of Recover/Disposer Non	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	02 01 02	No	31.8	animal-tissue waste	R3	M	Weighed	Offsite in Ireland	Maloney and Matthews Animal Collection Limited,KN65	Achonry,Tubbercurry,Sligo,..,Ireland		
Within the Country	18 02 02	Yes	0.69	wastes whose collection and disposal is subject to special requirements in order to prevent infection	D5	M	Weighed	Offsite in Ireland	SRCL Ltd,WCP-D-09-1178-01	430 Beech Road,Western Industrial Estate,Naas Road ,Dublin,Ireland	SRCL LTD,W0055-02,430 Beech Road,Western Industrial Estate,Naas Road,Dublin 12,Ireland	430 Beech Road,Western Industrial Estate,Naas Road,Dublin 12,Ireland
Within the Country	20 03 01	No	2.5	mixed municipal waste	D5	E	Volume Calculation	Offsite in Ireland	Barna Waste ,W0106-02	Ballaghderreen Landfill W0059-02,Ballaghderreen ..,County Roscommon,Ireland		
Within the Country	17 02 01	No	1.4	wood	R3	E	Volume Calculation	Offsite in Ireland	Barna Waste ,W0106-02	Barna Waste ,Headford Road,Galway,County Galway,Ireland		
Within the Country	20 03 99	No	0.0	general waste	D5	E	Volume Calculation	Offsite in Ireland	Barna Waste ,W0106-02	Barna Waste ,Headford Road,Galway,County 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](#)



## Annual Environmental Report: Summary of Emissions and Waste Transfers

### Intensive Agriculture Emissions Calculation Tool for AER / PRTR Reporting Version 1.1 May 2009

#### Data Entry and Calculation Output Sheet

Facility Name:	Mr. Anton Kiernan		
Licence Reg. No.:	P0382-01	Reporting year:	2015

#### Data Entry Table: Pig Farms

##### Input (in the yellow boxes) the annual average number of animals

- Note: the animal number for each class of swine (weaners; finishers; boars; etc) should be the average number in the facility over the 12 month period and should accord with your stocking register for the year.
- Stock counts on a monthly basis can be added and the total divided by 12 for each animal class.
- If stock counts are only available for lesser frequencies, i.e quarterly, then the average of these counts should be used to give the annual stock figures

##### HOUSING

Enter PIG NUMBERS in each class:

Class	Pig Number / year
Suckling sow+litter	132
Dry sow	462
Boars	3
Maiden gilts	89
Weaners (7 to 35 kg)	3,140
Finishers (35 to 98 kg)	1,932

##### STORAGE

Enter surface area of OUTDOOR UNCOVERED STORAGE  
(see Surface Area Calculation for a simple tool for this purpose)

Unit number	Surface Area m <sup>2</sup>
Slurry storage 1	0
Slurry storage 2	0
Slurry storage 3	0
Slurry storage 4	0
Others	0
Total	0

##### FORM OF MANURE STORAGE

Enter the form of Manure Storage

Does the facility employ:	data entry:
Liquid Manure Storage:	Enter Yes in appropriate box:
Solid Manure storage:	YES

(Note: the default assumption is Liquid Storage)

#### Data Output Table Pig Farms

- The following table provides the output data in the appropriate format for reporting via the "Releases to Air" Worksheet of the EPA Electronic AER Reporting Workbook
- The information must be entered manually; do NOT attempt to use the Cut or Copy methods for this task.
- All housing and storage emissions should be entered as Fugitive Emissions

RELEASES TO AIR								
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
06	Ammonia (NH3)	C	NRB	EPA Calculation tool	0	10,522.8	0	10,522.8
01	Methane (CH4)	C	NRB	EPA Calculation tool	0	67,731.0	0	67,731.0
05	Nitrous oxide (N2O)	C	NRB	EPA Calculation tool	0	62.8	0	62.8