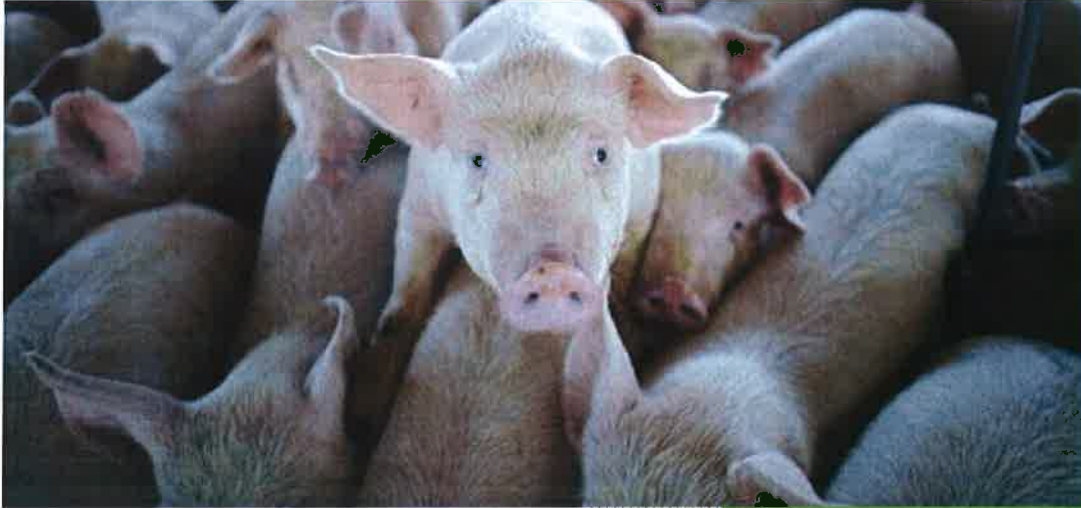


2016

**ANNUAL ENVIRONMENTAL REPORT
(AER)**



EPA Licence No.
P0696-02

CLW Environmental Planners Ltd.

C.L.W. Environmental Planners

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**MESSRS JIM & MARK
WRIGHT
T/A JMW FARMS
CROSSES
MONAGHAN
CO. MONAGHAN**

**JIM & MARK WRIGHT
JMW FARMS**

LICENCE REG. NO. P0696-02

ANNUAL ENVIRONMENTAL REPORT (A.E.R.)

1st JANUARY 2016 – 31st DECEMBER 2016

I. PREFACE

This report is provided to comply with Condition No. 11.7 of the Industrial Emissions Licence (Reg. No. P0696-02) issued to Jim & Mark Wright. This condition is as follows;

“The licensee shall submit to the Agency, by the 31st March of each year, an AER covering the previous calendar year. This report, which shall be to the satisfaction of the Agency, shall include as a minimum the information specified in Schedule D: Annual Environmental Report, of this licence 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In January 2012 the EPA produced a Draft Guidance Document ‘Annual Environmental Report: Standardised Reporting Guidance’ together with an accompanying template for a standardised AER Report for IPPC (and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 31st 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 This AER has been prepared in accordance with this draft guidance and in line with the standardised reporting format outlined in this document.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	2016
Licence Register Number	P0696-02
Name of site	Jim & Mark Wright (JMW Farms)
Site Location	JMW Farm, Crosses, Monaghan, Co. Monaghan
NACE Code	0147
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)	-6.92725, 54.24015

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;

This site is licensed as a 1,200 sow breeding unit.

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

01/01/2016 - 31/12/2016

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.

31/03/2017	
Signature _____ Consultant (or nominated, suitably qualified and experienced deputy)	Date _____

Additional information

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>	Yes	
--	-----	--

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 Observed	SELECT		
			SELECT		

2 Is it a requirement of your licence to carry out discharge to surface water monitoring? If Yes please complete Table W2 below	Yes	
3 Please state what frequency you are required to complete surface water monitoring		

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
SW	COD	12/02/2016	29	mg/L			
SW	COD	25/05/2016	33	mg/L			
SW	COD	22/07/2016	27	mg/L			
SW	COD	13/10/2016	16	mg/L			
				mg/L			
				mg/L			
				mg/L			

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

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 therof ^{Note 1}	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

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	
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	Yes	
4	What method has been proposed for the assessment of under and over ground effluent storage tanks and pipelines?	Visual	and Leak Detection
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.	Yes	12/09/2011
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	S126.pdf	bundng and storage guidelines
		Yes	Tank 1 & 2 covered by LD
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	Tank 8 and whey bund covered by Engineers cert.
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?	On-going	
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
1	Liquid Manure	Combination	29/11/2013	Yes	Yes	Pass		
2	Liquid Manure	Combination	29/11/2013	Yes	Yes	Pass		
8	Liquid Manure	Combination	29/11/2013	Yes	Yes	Pass		
					21st May 2015			

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
LD Chambers Dry						

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

Table OFS.1 Storage capacity for Organic Fertiliser

P0696-02

Type of Organic Fertiliser	Total organic fertiliser storage capacity (m3) (Estimate)	Opening Quantity of organic fertiliser (1 st January of reporting year) (Estimate)	Closing Quantity of organic fertiliser (1 st January of current calendar year) (Estimate)	Quantity of organic fertiliser produced by the animals housed on site in reporting year	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?
Pig Slurry	12997.91	9365	9949	10740	10337	N/a	Yes

*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 1st 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 1st 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

Groundwater monitoring summary report

Lic No:

P0696-02

Year:

2016

P0696-02

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) ? Groundwater regulations GTV's	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

This site is licensed as a 500 sow unit with 100 gilts and production pigs up to 4,200 pigs.

Date of sampling	Sample location reference	Parameter/ Substance	Monitoring frequency	unit	GTV's*	SELECT**	Maximum Concentration	Average Concentration

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

.+ 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

P0696-02

Additional information

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

01/11/2013	
no	
SELECT	N/a

[SEAI - Large Industry Energy Network \(LIEN\)](#)

Energy Use	Previous year kWh	Current year kWh
Total	1,062,040.0	893,536.0
Electricity	1,003,262.0	759,362.0
Fossil Fuels:		
Heavy Fuel Oil		
Light Fuel Oil	58,778.0	134,174.0
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

Water use	Previous year m3/yr.	Current year m3/yr.
Groundwater	c.13,000	5197
Surface water		
Public supply		
Total	c.13,000	5197

* 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

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 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	Total new complaints received during reporting year
No	

Incidents	
Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 1 below	Additional information
No	

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

Table 1: 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														

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:	Jim & Mark Wright T/A JMW Farms		
Licence Reg. No.:	P0696-02	Reporting year:	2016

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	300
Dry sow	887
Boars	4
Maiden gilts	520
Weaners (7 to 35 kg)	6,689
Finishers (35 to 98 kg)	0

STORAGE

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

Unit number	Surface Area m ²
Slurry storage 1	
Slurry storage 2	
Slurry storage 3	
Slurry storage 4	
Others	
Total	0

FORM OF MANURE STORAGE

Enter the form of Manure Storage

Does the facility employ:

Liquid Manure Storage:
 Solid Manure storage:

(Note: the default assumption is Liquid Storage)

data entry:
Enter Yes in appropriate box:
YES

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	12,207.2	0	12,207.2
01	Methane (CH4)	C	NRB	EPA Calculation tool	0	91,441.5	0	91,441.5
05	Nitrous oxide (N2O)	C	NRB	EPA Calculation tool	0	76.5	0	76.5

Attachment A

PRTR Workbook & Emissions Calculation Sheet



[Guidance to completing the PRTR workbook](#)

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2016
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1. FACILITY IDENTIFICATION

Parent Company Name	Messrs Jim and Mark Wright T/A JMW Farms
Facility Name	Messrs Jim & Mark Wright T/A JMW Farms
PRTR Identification Number	P0696
Licence Number	P0696-02

Classes of Activity	
No.	class_name
-	Refer to PRTR class activities below

Address 1	Crosses
Address 2	Monaghan
Address 3	
Address 4	
Country	Monaghan
Country	Ireland
Coordinates of Location	-6.92725 54.24015
River Basin District	GBNIENB
NACE Code	0146
Main Economic Activity	Raising of swine/pigs
AER Returns Contact Name	Shane Brady
AER Returns Contact Email Address	shane@clw.ie
AER Returns Contact Position	Consultant
AER Returns Contact Telephone Number	0494371447
AER Returns Contact Mobile Phone Number	0873779014
AER Returns Contact Fax Number	0
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	1
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

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

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

Is it applicable?	No
Have you been granted an exemption?	No
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
---	----

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR#: P0696 | Facility Name: Messrs Jin & Mark Wright T/A JMW Farms | Filename: P0696_2016.xls | Return Year: 2016 |

23/05/2017 14:57

Please enter all quantities on this sheet in Tonnes

3

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste: Name and Licence/Permit No of Next Destination Facility	Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste: Address of Next Destination Facility	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)
						Non	Non Haz Waste: Address of Recover/Disposer		Non Haz Waste: Address of Recover/Disposer				
Within the Country	02 01 02	No	90.2	animal-tissue waste	R3	M	Weighted	Offsite in Ireland	College Proteins Ltd,P0037-03		Nobber,Co. Meath,,,,Ireland	SRCL Ltd.,W0055-02,430 Beech Road,Western Industrial Estate,Nass Road,Dublin,Ireland	430 Beech Road,Western Industrial Estate,Nass Road,Dublin,Ireland
Within the Country	18 02 02	Yes	0.028	wastes whose collection and disposal is subject to special requirements in order to prevent infection	D10	C	Volume Calculation	Offsite in Ireland	SRCL Ltd.,WCP-DC-09-1178-01		430 Beech Road,Western Industrial Estate ,Nass Road,Dublin,Ireland	Beech Road,Western Industrial Estate,Nass Road,Dublin,Ireland	430 Beech Road,Western Industrial Estate,Nass Road,Dublin,Ireland
Within the Country	20 01 01	No	0.0	paper and cardboard	R3	C	Volume Calculation	Offsite in Ireland	McElvaney Waste & Recycling,WCP/MH/5/0089/01		Corcaghan,Monaghan,,,,Ireland	Irish Lamp Recycling Ltd.,WFP-KE-08-0348-01,Woodstock Industrial Estate,Kilkenny Road,Athy,Co. Kildare,Ireland	Woodstock Industrial Estate,Kilkenny Road,Athy,Co. Kildare,Ireland
Within the Country	20 01 21	Yes	0.0	fluorescent tubes and other mercury-containing waste	R4	C	Volume Calculation	Offsite in Ireland	Monaghan Electrical Wholesale Ltd.,WEEE Ireland Reference no. MON100		Plantation Road ,Monaghan ,Co. Monaghan,,Ireland	Road,Athy,Co. Kildare,Ireland	Woodstock Industrial Estate,Kilkenny Road,Athy,Co. Kildare,Ireland
Within the Country	20 03 01	No	2.0	mixed municipal waste	D1	C	Volume Calculation	Offsite in Ireland	McElvaney Waste & Recycling,WCP/MH/5/0089/01		Corcaghan,Monaghan,,,,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](#)