2016

ANNUAL ENVIRONMENTAL REPORT (AER)



EPA Licence No. P0696-02

CLW Environmental Planners Ltd.

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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In January 2012 the EPA produced a Draft Guidance Document 'Annual Environmental Report: Standardised Reporting Guidance' together with an accompanying template for a standardised AER Report for IPPC (and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 This AER has been prepared in accordance with this draft guidance and in line with the standardised reporting format outlined in this document.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

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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

| y . |
|---|
| 2016 |
| P0696-02 |
| Jim & Mark Wright (JMW Farms) |
| JMW Farm, Crosses, Monaghan, Co. Monaghan |
| 0147 |
| 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. |
| -6.92725, 54.24015 |
| |
| |
| |
| This site is licensed as a 1,200 sow breeding unit. |
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| |
| |
| |
| As per PRTR Returns |
| |
| |
| 01/01/2016 - 31/12/2016 |
| ,, |
| As per average numbers |
| As per average numbers |
| ar |

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 | Date |
| Consultant | |
| (or nominated, suitably qualified and experienced deputy) | |

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

SELECT

SELECT

SELECT

SELECT

SELECT

| Tank and Pipeline assessment reporting | Lic No: | POC | 96-02 | Year: | 2016 |
|--|--------------------------------------|-----------------------------|---------------------------|--|------------------------------------|
| Answer all questions and complete Tables TP1,TP2 and TP3 as a | pplicable | | | | Additional information if required |
| Is it a requirement of your licence to carry out a tank and pipeline | assessment for effluent storage o | on site? | | Yes | |
| 2 | | | | | |
| Is it a requirement of your licence to submit a programme for ago | eement to the Agency prior to car | rying out a tank and pipeli | ne assessment? | Yes | |
| 3 If Yes to Q2 has a programme been submitted to the Agency for | agreement on the testing and inspe | ection of under and over- | round effluent storage | | |
| tanks and pipelines? Please enter date of submission in additional | | | | Yes | |
| 4 | | | | U.S. SAN | |
| What method has been proposed for the assessment of under ar | d over ground effluent storage tar | nks and pipelines? | | Visual | and Leak Detection |
| | | | | | |
| Have all structues been assessed for integrity in the past five yea | rs or as required by the licence. If | no, please identify the str | uctures which have not | | |
| been assessed as required, in the Additional Information column | Also in the column, please state t | he date on which assessm | ent was carried out. | Yes | 12/09/2011 |
| 6 If Visual inspection was the method used were any cracks or defe | | | Г | No | |
| 7 If yes to Q6 have the cracks or defects been repaired successfully | ? If no please explain in additional | information | | SELECT | N/a |
| If hydrogeological or geophysics investigation methods were use additional information | a was there any evidence of conta | mination detected? If yes | please detail in | SELECT | N/a |
| 9 If yes to Q8 please detail proposed or completed remediation wo | rk in additional information | | | Significant (| N/a |
| Are there any leak detection systems on site? Please see Departr | nent of | | | Eta House | |
| 10 Agricultures S126 and EPA guidance on Storage and Bunding of | | | | | |
| required systems | S126.pdf | bunding and storage of | <u>uidelines</u> | Yes | Tank 1 & 2 covered by LD |
| Does the leak detection system serve all housing units on site? | please state in the comments sect | ion number of units cover | ed by the leak detection | | Tank 8 and whey bund covered by |
| system an | d total number of units on site) | | | No | Engineers cert. |
| From the visual inspections carried out has any discharge been | | ction chamber? If yes plea | se enter details in table | Name of the last o | Name of the state of |
| Was it a requirement of your licence to analyse samples for the c | TP2 | enter details of any same | oles taken in table TP3 | No: | None observed |
| below | arrent reporting year. If yes prease | center details or any samp | oles taken in table 11 5 | 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 condi | tions? | | | Yes | |
| 16 Include details of any other findings of report | | | None | | |

| Tank and Pipeline asse | ssment reporting | | Lic No: | 80 | 696-02 | Year: | 2016 | |
|--|-----------------------|----------------------------|---------------------------|--|---------------------------------------|-----------------|--|-------------------------|
| Table TP1: Underground | and Overground Tanks, | Bund and pipeline register | ALL Facilities to complet | e | | | | |
| Bund/Tank/Containmen t structure ID (this includes pipelines associated with Bunds/Tanks or containment structures) | | Type of integrity assessme | 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)

| | | Samples taken |
|------|-----------------------|--------------------|
| Date | Evidence of discharge | (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 | | | | | | |
| | | E I | | | | |
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| Organic fertiliser storage | capacity | | Lic No: | 1 | 0696-02 | Years | 2016 |
|--|--|---|---------------|--|---|---|--|
| Please complete the table Table OFS.1 Storage capacit | | | ow as a guide | | 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) | January of | Quantity of organic fertiliser produced by | 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 |
| | | | | | | | ME TO SERVICE STATE OF THE SER |

^{*}DAFM -Department of Agriculture Food and Marine

Column 3 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 substracting the closing quantity (**c**) i.e. if **e** does not match **b** + **d** - **c**, account for the mistmatch, for example where the unit is applying organic fertiliser on their own landbank

| Sample Date of location Parameter/ Monitoring Average | Are you required to carry out groundwater monitoring as part of your licence requirements? If Yes complete table GW1 below Were any results in exceedance of a relevant Groundwater threshold Groundwater. 2 value (GTV)? regulations GTV's no N/a What measures were taken to investigate the exceedances of GTV's? detail in additional 3 information section below SELECT N/a ble GW1:Groundwater monitoring results This site is licensed as a 500 sow unit with 100 gilts and production pigs up to 4,200 pigs. Sample location Parameter/ Monitoring sampling reference Substance frequency unit GTV's* SELECT** Maximum Concentration Concentration Ference Substance of a relevant Centuredwater threshold when jGTV) at a treasmentative continuing point does not compliance, an exceedance targets further investigation to confirm whether the case as the case of coor groundwater characteristic status are bring met. Figure if the other in the character of the case of the | Are you required to carry out groundwater monitoring as part of your licence requirements? If Yes complete table GW1 below Were any results in exceedance of a relevant Groundwater threshold Groundwater 2 value (GTV)? regulations GTV's no N/a What measures were taken to investigate the exceedances of GTV's? detail in additional 3 information section below SELECT N/a Sample Date of location Parameter/ Monitoring results This site is licensed as a 500 sow unit with 100 gilts and production pigs up to 4,200 pigs. Average Concentration Frequency unit GTV's* SELECT** Maximum Concentration Concent | Are you required to carry out groundwater monitoring as part of your licence requirements? If Yes complete table GW1 below Were any results in exceedance of a relevant Groundwater threshold What measures were taken to investigate the exceedances of GTV's? detail in additional 3 information section below This site is licensed as a 500 sow unit with 100 gilts and production pigs up to 4,200 pigs. Sample Date of location Parameter/ I Monitoring Frequency Unit GTV's* SELECT** Maximum Concentration Average Concentration Average Concentration Groundwater Frequency Unit GTV's* SELECT** Maximum Concentration Groundwater Frequency Unit GTV's* SELECT** Maximum Concentration Groundwater Frequency Unit GTV's* SELECT** Maximum Concentration Groundwater Frequency Unit GTV's* SELECT** Maximum Concentration Groundwater Frequency Unit GTV's* SELECT** Maximum Concentration Groundwater Frequency Unit GTV's* SELECT** Maximum Concentration Frequency Frequency Frequency Frequency Unit Frequency Frequen | | Groundwat | er monitori | ing summar | y report | | Uc No: | P0696-02 | | Vear . | 2016 |
|--|--|--|--|---------------------------------------|-----------------------|------------------|--------------------|------------------------|----------------------------|----------------------|-----------------------------------|---------------------|-------------|------------------|
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| Sampling reference Substance Irequency unit GTV's SELECT* Maximum Concentration | in an indepense of a reiscont Summindarium threshold value (GTV) at a representative constrouting point does not indicate non-compliance, an exceedance triggers further investigation to confirm which is the critical for poor groundwater chambral status are bring ener. The effective of a reiscont Summindarium threshold value of the critical for poor groundwater chambral status are bring ener. The effective of a reiscont Summindarium threshold value of the critical status are bring ener. The effective of a reiscont Summindarium threshold value of the critical status are bring ener. The effective of a reiscont Summindarium threshold value of the critical status are bring ener. The effective of a reiscont Summindarium threshold value of the critical status are bring ener. The effective of a reiscont Summindarium threshold value of the critical status are bring ener. The effective of a reiscont Summindarium threshold value of the critical status are bring ener. The effective of a reiscont Summindarium threshold value of the critical status are bring ener. The effective of a reiscont Summindarium threshold value of the critical status are bring ener. The effective of a reiscont Summindarium threshold value of the critical status are bring ener. The effective of a reiscont Summindarium threshold value of the critical status are bring ener. The effective of a reiscont Summindarium threshold value of the critical status are bring energy and the | In stell note a constant of a reinvalit formation in the crateria for accompliance and in dicate one compliance, an exceedance triggers further investigation to confirm which the crateria for accompliance and indicate one compliance, an exceedance triggers further investigation to confirm which the crateria for accompliance and indicate one compliance, an exceedance triggers further investigation to confirm which the crateria for accompliance and indicate one compliance, an exceedance triggers further investigation to confirm which the crateria for accompliance and indicate one compliance, an exceedance triggers further investigation to confirm which the crateria for accompliance and indicate the crateria for accompliance and indicate one compliance, an exceedance triggers further investigation to confirm which the crateria for accompliance and indicate one compliance, an exceedance triggers further investigation to confirm which the crateria for accompliance and indicate one compliance, an exceedance triggers further investigation to confirm which the crateria for accompliance and indicate one compliance, an exceedance triggers further investigation to confirm which the crateria for accompliance and indicate one compliance, an exceedance triggers further investigation to confirm which is accompliance and indicate one compliance, an exceedance triggers further investigation to confirm which is accompliance and indicate one compliance, an exceedance triggers further investigation to confirm which is accompliance and indicate one compliance, and in the compliance and indicate one compliance, and indicate one compliance, an exceedance triggers further investigation to confirm the compliance and indicate one comp | The first of a relevant fortunation when for V) at a representative constoring point does not indicate non-compliance, an exceedance tripper further investigation to confirm which is not the city of the confirmation of the city of the | | | | | | OT #-* | OFI FOTH | Maria Caralaga | | | |
| | Whether the criteria for poor ground water chamical status are being must. Specifically on the last and proceeding to other and the receiptors affermative its capts facing Water Quality stat share it outlines until in addition to mining a start supply companies. Surface water regulations (private supply companies) and the capts of the continuent of t | Whether the craters for poor groundwater channels status are being mist. Groundwater Channels status are being mist. Groundwater Drink Groundwa | which is the craims for accompound well-chain in a plant in the craim of a point in the craim of a poi | sampling | rererence | Substance | rrequency | unit | GIV's | SELECT | Maximum Concentration | Concentration | | |
| | Whether the criteria for poor ground water chamical status are being must. Specifically on the last and proceeding to other and the receiptors affermative its capts facing Water Quality stat share it outlines until in addition to mining a start supply companies. Surface water regulations (private supply companies) and the capts of the continuent of t | Whether the craters for poor groundwater channels status are being mist. Groundwater Channels status are being mist. Groundwater Drink Groundwa | which is the craims for accompound well-chain in a plant in the craim of a point in the craim of a poi | | | - | | | | - | | | | |
| | Whether the craters for poor ground water chamical status are being mist. See and provide the set of the set | Whether the crateria for poor ground water channels status are being mice. Groundwater Channels status are being mice. Groundwater Drink Ground | which is the craims for accompound well-chain in a plant in the craim of a point in the craim of a poi | | | | | | | | | | | |
| | Whether the craters for poor ground water chamical status are being mist. See and provide the set of the set | Whether the crateria for poor ground water channels status are being mice. Groundwater Channels status are being mice. Groundwater Drink Ground | which is the craims for accompound well-chain in a plant in the craim of a point in the craim of a poi | | | | | 7-23-6 | | | | | | |
| | Whether the craters for poor ground water chamical status are being mist. See and provide the set of the set | Whether the crateria for poor ground water channels status are being mice. Groundwater Channels status are being mice. Groundwater Drink Ground | which is the craims for accompound well-chain in a plant in the craim of a point in the craim of a poi | | | | | | | | | | | |
| | Whether the cruters for poor ground water chamical status are being miss. Septidizing on book and of the size and processity to other senting receptors alternative receptors alternative and water Quarky standards the united in addition to this company of the size and processing the size of the size and water supply company and size of the | Whether the craters for poor groundwater challeng status are being their. Groundwater Challeng of the status are being their status are status are status and in addition to this status are | which is the craims for accompound well-chain in a plant in the craim of a point in the craim of a poi | | | 1 | 1 | | | | | | | _ |
| | The file of the Control of the Control of Co | Eng. If the ME is depended to suffice water to suffice Water first commencial Quality Standards (SWCOS). If the line is close to a densiting water supply companies EQS GTV's standards (DWS). | Eqs. If the square of surface water in summer and courses standards (DWS). If the sum a class to a drawful supply company of EQS. GTV's standards (DWS) are average indicates arithmetic mean++ maximum concentration indicates the maximum measured concentration from all monitoring results produced during the results are average indicates. | | | | | methes the criterie to | DOC STOURDWATER CHEMICA | STATUS AND DRINGS | | | | |
| whether the criteria to: poor groundwater-chemical status and being mich. | TOURS TO THE CENTURY WATER (Stamphores (CIMS)) EQS GTV's standards | results to the Drinking Work (Shamburds (DWS) | to the Growing Ware Stambus (DWS) EQS GTV's stambere average indicates arithmetic mean .++ maximum concentration indicates the maximum measured concentration from all monitoring results produced during the results are supported by the concentration from all monitoring results produced during the results are supported by the concentration from all monitoring results produced during the results are supported by the concentration from all monitoring results produced during the results are supported by the concentration from all monitoring results produced during the results are supported by the concentration from all monitoring results produced during the results are supported by the concentration from all monitoring results are supported by the concentration from all monitoring results are supported by the concentration from all monitoring results are supported by the concentration from all monitoring results are supported by the concentration from all monitoring results are supported by the concentration from all monitoring results are supported by the concentration from all monitoring results are supported by the concentration from all monitoring results are supported by the concentration from all monitoring results are supported by the concentration from all monitoring results are supported by the concentration from all monitoring results are supported by the concentration from the concentration fro | and the last | Acceptance of the s | eta and account | ty to other senior | we receptors alternat | ive Receptor Based Water O | uality standards o | insulf be used in addition to the | | Groundwater | Drinking water |
| | | | here average indicates arithmetic mean .++ maximum concentration indicates the maximum measured concentration from all monitoring results produced during the r | 医皮肤性多种 | in clusters to suffic | ne mater collect | | | | hie sine is close to | a drinking water supply compare | | | (private supply) |
| Groundwater Drinking water and the user was the contract to th | | here average indicates arithmetic mean .++ maximum concentration indicates the maximum measured concentration from all monitoring results produced during the re | | وسيفان | | - | results | The second second | CONTRACTOR OF STREET | | | | | |
| Groundwater Drinking water Supply Companies to the Unit of the Uni | | Additional information | | į. | Additional in | tormation | | | | | | 1 | | |
| Groundwater Drinking Standard (private specific to the standard private specific to the standard pr | Additional information | | | | | | | | | | | I | | |
| Groundwater Drinking was a standard of the sta | Additional information | | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | | | | | | 1 | | |

| Resource usage | e/ Energy Efficiency | Lic No: | P0696-02 | والمتحققة | Year | 2016 |
|------------------|--|----------------------------------|--------------------|-----------------------|------------|------------------------|
| | | | | P0696-02 | i | Additional information |
| 1 | When did the site carry out | the most recent energy efficie | ency audit? | | 01/11/2013 | |
| | | | | SEAI - Large Industry | | |
| Is the site a me | mber of any accredited programmes for i | reducing energy usage/water | conservation such | Energy Network | | |
| 2 as the SE | Al programme linked to the right? If yes | please list them in additional i | nformation | (LIEN) | no | |
| Where Fuel Oil | is used in boilers on site is the sulphur co | ontent compliant with licence | conditions? Please | state percentage in | | |
| 3 | addit | tional information | | , | SELECT | N/a |

| Table ER1 Energy usa | ge on site | |
|----------------------|-------------------|------------------|
| 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 Oll | | |
| Light Fuel Oll | 58,778.0 | 134,174.0 |
| Natural gas | | |
| Coal/Solid fuel | | |

^{*} 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 | 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

| Table ER | 3: Energy Audit finding recommen | dations | | | | | | |
|---------------|----------------------------------|-------------------------------------|---|-------------------------------|---------------------|----------------|-----------------|---------------------|
| Date of audit | Recommendations | Description of Measures proposed | Origin of measures | Predicted energy savings % | Implementation date | Responsibility | Completion date | Status and comments |
| | | | | | | | | |
| | | | U MARKAGANIA MARKAMAN | | | | | |

| | Complaints and incidents summers | | Lichton | 90006 AV | | | 2016 | | | | | | | |
|--|---|---|-----------------------------------|----------|---|-----------------------------------|--|---------------|------------|----------------------------|-------------------------------------|-------------------|--------------------|--------------|
| Answer all questions | s and fill in the incident summary ta | ble i1 below | | | | | | | | | | | | |
| | " | Compli | ints | | | | | | | | | | | |
| Have you receive | d any environmental complaints in t received dur | he current reporting year? If yes ing the reporting year | please state the total number | No | Total new complaints received during reporting year | | | | | | | | | |
| | | Incide | nts | | | | | | | | | | | |
| | | | | | Additional information | 1 | | | | | | | | |
| Have any incidents | s occurred on site in the current rep | orting year? Please list all incider ble (1 below | nts for current reporting year in | T. | | 7 | | | | | | | | |
| For information on | how to report and what constitutes an incident | What is an incident | | | | _ | | | | | | | | |
| Table II: Incidents su | ummary | | | | | | | | | | | | | |
| Date of occurrence | Incident nature | Location of occurrence | Incident category*please | 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 | Liklihood of |
| .,, | SELECT | SELECT | SELECT | SELECT | SELECT | | SELECT | SELECT | SELECT | | | SELECT | | SELECT |
| | SELECT | SELECT | SELECT | SELECT | SELECT | | SELECT | SELECT | SELECT | | | SELECT | | SELECT |
| | SELECT | SELECT | SELECT | SECECT | SELECT | | SELECT | SELECT | SELECT | | | SELECT | | SELECT |
| | SELECT | SELECT | SELECT | SELECT | SELECT | | SELECT | SELECT | SELECT | 9 | | SELECT | | SELECT |
| | SELECT | SELECT | SELECT | SELLCT | 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:

| | data entry: |
|-------------------------|-------------------|
| 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)

| | tiata entry. |
|------------------|-----------------|
| Unit number | Surface Area m² |
| Slurry storage 1 | |
| Slurry storage 2 | |
| Slurry storage 3 | |
| Slurry storage 4 | |
| Others | |
| Total | (|

FORM OF MANURE STORAGE Enter the form of Manure Storage

data en

Does the facility employ:

Liquid Manure Storage:

Solid Manure storage:

(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

| | RELE | ASES TO AIR | | | | | | |
|--------------|---------------------|-------------|-------------|----------------------|------------------|-------------------|----------------|--------------|
| POL | LUTANT | | METHOD | | | | | |
| | | | Metho | Method Used | | | | |
| | | | | Designation or | | | A (Accidental) | F (Fugitive) |
| No. Annex II | Name | M/C/E | Method Code | Description | Emission Point 1 | T (Total) KG/Year | KG/Year | KG/Year |
| 06 | Ammonia (NH3) | С | NRB | EPA Calculation tool | 0 | 12,207.2 | 0 | 12,207.2 |
| 01 | Methane (CH4) | С | NRB | EPA Calculation tool | 0 | 91,441.5 | 0 | 91,441.5 |
| 05 | Nitrous oxide (N2O) | С | NRB | EPA Calculation tool | 0 | 76.5 | 0 | 76.5 |

A.E.R. 2016 P0696-02

Attachment A

PRTR Workbook & Emissions Calculation Sheet



| PRTR# | P0006 | Focility Name | Messro Jim & Mark Wright T/A JMW Forms | Filename | P0006 | 2016 xls | Return Year | 2016 |

Guidance to completing the PRTR workbook

PRTR Returns Workbook

1. FACILITY IDENTIFICATION
Parent Company Name Mesars Jim and Mark Wright T/A JMW Farms
Facility Name Mosses 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 |

| | rate and the same |
|---|---|
| Address 1 | |
| | Monaghan |
| Address 3 | |
| Address 4 | |
| | |
| | Monaghan |
| | Ireland |
| Coordinates of Location | |
| River Basin District | |
| NACE Code | 0146 |
| Main Economic Activity | |
| AER Returns Contact Name | Shane Brady |
| AER Returns Contact Email Address | shane@clw.ie |
| AER Returns Contact Position | Consultant |
| AER Returns Contact Telephone Number | |
| AER Returns Contact Mobile Phone Number | 0873779014 |
| AER Returns Contact Fax Number | 0 |
| Production Volume | 0.0 |
| Production Volume Units | |
| Number of Installations | |
| Number of Operating Hours in Year | |
| Number of Employees | |
| User Feedback/Comments | |
| Web Address | |

2 PRTR CLASS ACTIVITIES

| 2. PRIR 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 onalte treatment (either recovery or disposal

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

23/05/2017 14:42

JOSEPH CONTRACT

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

| | RELEASES TO AIR | | | are the same of th | Please onter all quantities | in this section in KGs | | |
|---|---|-------|-------------|--|-----------------------------|--|------------------------|----------------------|
| | POLLUTANT | | | METHOD | | | QUANTITY | |
| 100000000000000000000000000000000000000 | | | | Method Used | | and the state of t | the second | |
| No. Annex II | Name | MICHE | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F.(Fugitive) KG/Year |
| | Ammunia (Sera) | C | OTH | | 0.0 | 12207.2 | 0.0 | 12267.2 |
| 01 | Methanie (CH4) | 0 | OTH | | 0.0 | 91441.5 | 0.0 | 91441 5 |
| 05 | Nitrona oxida (N2O) | C | OTH | | 0.0 | 76.5 | 0.0 | 76.5 |
| | Select a row by double-clicking on the Pollutent Name (Column B) then click the delete button | | | | | | 0.0 | 10.5 |

SECTION B : REMAINING PRTR POLLUTANTS

| | RELEASES TO AIR | | | Please enter all quantities | o in this section in KGs | | |
|---------------|-----------------|--|----------------------------|-----------------------------|--------------------------|------------------------|----------------------|
| | POLLUTANT | | RETHOD | | | QUANTITY | |
| 144779-20018 | | THE RESERVE THE PARTY OF THE PA | Method Used | 770775 | | | |
| No. Finhes II | Name | M/C/E Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F.(Eugitive) KG/Yenr |
| | | | | 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)

A above)

| HELEASES TO AIR | | | Please enter all quantities in this section in KGs | | | | | |
|--|-----------|-------|--|--|------------------|-------------------|--|----------------------|
| | POLLUTANT | | | METHOD | | | QUANTITY | |
| ACCUMANTAL STATE OF THE PARTY O | | | | Method Used | | | The second secon | |
| Pelistant No. | Name | M/C/E | Method Code | Designation of Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | | The state of the s | 0.0 | 0. | 0.0 | 0.0 |

* Select is row by double-clicking on the Pollutant Name (Column 8) then click the delete button

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Grees, lendfill operators are requested to provide summary data on landfill gas (Methane) filtered or utilised on their facilities to accompany the figures for fold methane generated. Operators should only report their Met methane (CH4) emission ten the environment under "(total KOyr 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 |

Net methane emission (as reported in Section

Mesars Jim & Mark Wright T/A JMW Farms **Facility Total Capacity** T (Total) kg/Year m3 per hour Total estimated methane generation (as part Methane flared Methane utilised in engine/s

00 (Total Flaring Capacity) 00 (Total Utilising Capacity)

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE | PRIR#: P0806 | Facility Name: Messre Jim & Mark Wright T/A JMW Farms | Filename: P0696_2016 xls | Return Year: 2016 |

| - | Please enter all quantities on this sheet in Tonnes | | | | | | | | | | | | | |
|---|---|------------------------|-----------|----------------------------------|---|---------------------------------|------|---------------------------------------|-----------------------|---|--|---|--|--|
| | Transfer Destination | European Waste Code | Hazardous | Quantity (Tonnes per Year) | Description of Waste | Waste Treatment Operation | MC/E | Method Used | Location of Treatment | Haz Waste : Name and Licence/Permit No of Next Desthation 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 at Final Recoverer / Disposer (HAZARDOUS WASTE ONLY) | Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY) | |
| | A | | | | 111 | Asses | | | | College Proteins Ltd, P0037- | | | | |
| ľ | Within the Country | 02 01 02 | No | 90.2 | animal-tissue waste | R3 | М | Weighed | Offsite in Ireland | 03 | Nobber,Co. Meath,,Ireland | | | |
| , | Within the Country | 18 02 02 | Yes | 0.026 | wastes whose collection and disposal is subject to special requirements in order to prevent infection | D10 | С | Volume Calculation | Offsite in Ireland | McElvaney Waste & | 430 Beech Road, Western Industrial Estate , Nass Road, Dublin, 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 | 20 01 01 | No | 0.0 | paper and cardboard | R3 | С | Volume Calculation | Offsite in Ireland | Recycling, WCP/MH/5/0089/ | Corcaghen, Monaghan,, Irel and | | | |
| | Within the Country | 20 01 21 | Yes | 0.0 | fluorescent tubes and other mercury- containing waste | R4 D1 | c | Volume Calculation Volume Calculation | Offsite in Ireland | Monaghan Electrical Wholesale Ltd.,WEEE Ireland Reference no. MON100 McElvaney Waste & Recycling,WCP/MH/5/0089/ | Plantation Road ,Monaghan | 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 | |

^{*} 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 Guldance