

Annual Environmental Report

For

Licence Registration Number: P0382-01

Reporting period: 1st January 2008 to 31st December 2008

**Location of Activity: Carrowcushcly Pig Farm
Carrowcushcly
Ballymote
Co. Sligo**

Prepared by: _____

Signed: _____

Position: _____

Date: _____

The following report has been prepared in accordance with Condition 2.4.2, Condition 9 and Schedule 5 (i) of Integrated Pollution Control Licence number P0382-01.

The unit was licensed by the EPA in December 1999 to carry out the following activity

:- the rearing of pigs in installations, whether within the same complex or within 100 meters of that complex, where the capacity exceeds 1000 units on gley soils or 3000 units on other soils.

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1.0 WASTE RECORDS

Wastes arising on-site include

- Animal carcasses
- Domestic waste
- Dry recyclables
- Fluorescent tubes
- Agrochemical waste

All wastes generated on-site are stored in suitable containers in designated areas prior to being transferred to approved disposal/recovery facilities. A summary of waste disposed/recovered off-site during the reporting period is outlined in Table 1 below.

Table 1: Waste transferred off-site for disposal/recovery during the reporting period

	Animal carcasses	Domestic waste	Dry recyclables	Fluorescent tubes	Agrochemical waste
EWC code	02 01 02	20 03 01	20 03 99	20 01 21	02 01 08
Quantity	39.5 Tonnes	4.96 Tonnes (approx)	2.86 Tonnes (approx)	0.02 Tonnes	0.25 Tonnes
Collector	Kiernan Transport, Granard, Co. Longford	Barna/Bergin Waste Headford Rd., Galway.	Barna/Bergin Waste Headford Rd., Galway.	Envia Irl. Ltd, Portlaoise, Co. Laois.	Transafe Ltd., D. 12
Collection permit no.	<i>D.o.A registration no:</i> KT	CW074	CW074	CW030	CW011
Final destination	Premier Proteins, Ballinasloe.	Ballaghadereen Landfill c/o Roscommon Co. Co.	Bruscar Bhearna Teo., Galway.	DELA, Germany.	Greenstar Holding Ltd., Ballynagran Landfill, Co. Wicklow.
Licence/permit details	P0592-01	W0059-02	W0106-02	E11315322	W0165

2.0 MANURE USE & RECORDS

2.1 Manure distribution 2009

Manure from this site is available for distribution as fertilizer to the occupiers of holdings subject to availability. Manure will only be distributed in response to a request. The use of the manure by occupiers of holdings is subject to control under the European Communities (Good Agricultural Practice for Protection of Waters) Regulations 2006 and European Communities (Good Agricultural Practice for Protection of Waters) Regulations 2009 (from 31st March 2009). Records of manure dispatch will be maintained on-site and be available for inspection by the authorities. New customers who may seek a supply may be added to the customer list during the year. Manure may be supplied to a new customer on his statement that he has a requirement.

2.2 Manure Storage Capacity

The manure storage capacity was measured on a weekly basis during the reporting period and the remaining storage capacity at the end of each month is outlined in Table 2.

Table 2 Available Manure Storage Capacity during the Reporting Period

	% Storage Capacity Available
January	28 %
February	30 %
March	36 %
April	46 %
May	46 %
June	43 %
July	30 %
August	36 %
September	55 %
October	45 %
November	35 %
December	28 %

2.3 Manure Distribution

8640m³ of manure was dispatched from the farm in 2008. A register, detailing dates, volumes and importers of the manure was maintained and is available for inspection by the authorities.

3.0 FEED COMPOSITION

The main constituents of the feed include wheat, hipro soya, barley, pollard, maize, rapeseed, peas, beet pulp, milk powders, tallow, soya oil and supplements.

4.0 SURFACE WATER DISCHARGE MONITORING

Outlined in Table 3 are the results for surface water monitoring conducted in accordance with Schedule 4 (i) of the licence at sample point SWA during 2008. Analyses were conducted by Oldcastle Laboratories, Co. Meath.

Table 3 Surface water discharge monitoring results for sample point SWA

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
COD (mg L ⁻¹)	34	33	54	30
Ammonia (mg L ⁻¹)	0.18	0.05	0	<0.05
Total Phosphate (mg L ⁻¹)	0.13	0.16	0.1	0.03

Outlined in Table 4 are the results for surface water monitoring conducted in accordance with Schedule 4 (i) of the licence at sample point SWB during 2008. Analyses were conducted by Oldcastle Laboratories, Co. Meath.

Table 4 Surface water discharge monitoring results for sample point SWB

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
COD (mg L ⁻¹)	34	30	53	34
Ammonia (mg L ⁻¹)	0.15	0.06	0	<0.05
Total Phosphate (mg L ⁻¹)	0.16	0.1	0.13	0.03

Outlined in Table 5 are the results for surface water monitoring conducted in accordance with Schedule 4 (i) of the licence at sample point SWC during 2008. Analyses were conducted by Oldcastle Laboratories, Co. Meath.

Table 5 Surface water discharge monitoring results for sample point SWC

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
COD (mg L ⁻¹)	32	35	55	48
Ammonia (mg L ⁻¹)	0.14	0.1	0	<0.05
Total Phosphate (mg L ⁻¹)	0.22	0.12	0.09	0.07

5.0 GROUND WATER MONITORING

Groundwater quality was monitored in December. The analysis was conducted by Oldcastle Laboratories, Co. Meath. The results are as follows:

Ammonia	0.04 mg L ⁻¹
Nitrate	0.9 mg L ⁻¹
Faecal coliforms	0 per 100 ml

6.0 TANK & PIPELINE ASSESSMENT

The manure storage tanks were emptied and cleaned out in 2005. They were visually inspected by personnel on-site and were found to be in good condition. There was no evidence of leaks or significant cracking. The tanks are considered to be structurally sound.

7.0 INCIDENTS

There were no incidents during the reporting period.

8.0 COMPLAINTS

There was one complaint relating to odour in June 2008. The complaint was investigated and it was concluded that the odour arose during agitation of tanks. The complainant was satisfied that the problem was a once-off occurrence, as the tanks rarely require agitation.

AER Returns Worksheet

Version 1.1.04

REFERENCE YEAR	2008
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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

Waste or IPPC Classes of Activity

No.	class_name
6.2.0	The rearing of pigs in installations, whether within the same complex or within 100 metres of that complex, where the capacity exceeds 1,000 units on gley soils or 3,000 units on other soils and where units have the following equivalents- 1 pig = 1...

Address 1	Kiernan Pig Farms
Address 2	Granard
Address 3	Co Longford
Address 4	
Country	Ireland
Coordinates of Location	16523195
River Basin District	
NACE Code	0146
Main Economic Activity	Raising of swine/pigs
AER Returns Contact Name	Niamh Murray
AER Returns Contact Email Address	murrayniamh@yahoo.ie
AER Returns Contact Position	
AER Returns Contact Telephone Number	0719183049
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	0719183677
Production Volume	0.0
Production Volume Units	
Number of Installations	1
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

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

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 ?	

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CREATE AER XML
RETURN & UPLOAD

4.1 RELEASES TO AIR

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15/04/2009

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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	OTH	Based on a max of 20% of total N excreted	0.0	8000.0	0.0	8000.0
01	Methane (CH4)	C	OTH	Based on pig type and numbers	0.0	80000.0	0.0	80000.0

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

SECTION B : REMAINING PRTR POLLUTANTS

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				
					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)

RELEASES TO AIR								
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	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				
					0.0	0.0	0.0	

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

4.2 RELEASES TO WATERS

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR only concerns Releases from your facility

RELEASES TO WATERS								
POLLUTANT					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				
					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 B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS								
POLLUTANT					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				
					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)

RELEASES TO WATERS								
POLLUTANT					QUANTITY			
Pollutant No.	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				
					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

4.3 RELEASES TO WASTEWATER OR SEWER

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SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER								
POLLUTANT		METHOD			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

ADD NEW ROW | DELETE ROW *
Click a row by double clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER								
POLLUTANT		METHOD			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

ADD NEW ROW | DELETE ROW *
Click a row by double clicking on the Pollutant Name (Column B) then click the delete button

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4.4 RELEASES TO LAND

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SECTION A : PRTR POLLUTANTS

RELEASES TO LAND							
POLLUTANT		METHOD			QUANTITY		
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	0.0	0.0
ADD NEW ROW		DELETE ROW * <small>Select a row by clicking on the Pollutant Name (Column B) then click the delete button</small>					

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

REMAINING POLLUTANT EMISSIONS							
POLLUTANT		METHOD			QUANTITY		
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	0.0	0.0
ADD NEW ROW		DELETE ROW * <small>Select a row by clicking on the Pollutant Name (Column B) then click the delete button</small>					

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5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

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Transfer Destination	European Waste Code	Hazardous	Quantity T/Year	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Name and Licence / Permit No. of Recoverer / Disposer / Broker	Address of Recoverer / Disposer / Broker	Name and Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)	Licence / Permit No. of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	02 01 02	No	39.5	Animal carcasses	D9	M	Weighed	Offsite in Ireland	Premier Proteins, P0592-02	Ballinasloe, Co. Galway		
Within the Country	20 03 01	No	4.9	Mixed municipal waste	D1	E	Volume Calculation	Offsite in Ireland	Barna Waste (disposal at Ballaghadereen LF W0059-02)	Galway		
Within the Country	20 03 99	No	2.8	Dry recyclables	R12	E	Volume Calculation	Offsite in Ireland	Barna Waste, W0106-02	Galway		
Within the Country	20 01 21	Yes	0.02	Fluorescent tubes	R12	E	Volume Calculation	Abroad	Enva Irl. Ltd., W0184-01	Portlaoise, Co. Laois	Dela, Germany Greenstar Holding Ltd., Ballynagran, Co. Wicklow	E11315322 W0165-01
Within the Country	02 01 08	Yes	0.25	Agrochemical wasts	D9	m	Weighed	Offsite in Ireland	Transafe/Sterile Technologies W0055-02	Dublin 12		

clicking the delete icon will delete the row