Annual Environmental Report

For

Licence Registration Number: P0382-01

Reporting period: 1st January 2010 to 31st December 2010

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
- Agrochemical waste
- Metal

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**	**General Waste**	**Agrochemical waste**	**Agrochemical waste**
EWC code	02 01 02	20 03 01	20 03 99	20 03 99	18 02 02	02 01 10
Quantity	44.6 Tonnes	5.72 Tonnes (approx)	1.75 Tonnes (approx)	36 T (approx)	0.07 Tonnes	2 Tonnes
Collector	Kiernan Transport, Granard, Co. Longford.	Barna/Bergin Waste Headford Rd., Galway.	Barna/Bergin Waste Headford Rd., Galway.	Barna/Bergin Waste Headford Rd., Galway	SRCL Limited Naas Rd., D.12.	Erin Recyclers Finisklin Co.Sligo.
Collection permit no.	*D.o.A registration no:* KT	CW074	CW074	CW074	WCP/09	CW206
Final destination	Premier Proteins, Ballinasloe.	Ballaghadereen Landfill c/o Roscommon Co. Co.	Bruscar Bhearna Teo., Galway.	Bruscar Bhearna Teo., Galway.	Ballynagran Landfill, Co. Wicklow.	Erin Recyclers Finisklin Co.Sligo
Licence/permit details	P0592-01	W0059-02	W0106-02	W0106-02	W0165-01	WP SO 08/93

2.0 MANURE USE & RECORDS

2.1 Manure distribution 2010

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 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	23 %
February	39%
March	70%
April	75%
May	75%
June	75%
July	81%
August	77%
September	72%
October	63%
November	34%
December	24%

2.3 Manure Distribution

9,315m^3 of manure was dispatched from the farm in 2010. 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 2010. 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})	0	0	0	0
Ammonia (mg L^{-1})	<0.05	0.74	<0.05	<0.05
Total Phosphate (mg L^{-1})	0.12	0.05	0.16	

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 2010. 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})	10	0	0	0
Ammonia (mg L^{-1})	<0.05	0.21	<0.05	
Total Phosphate (mg L^{-1})	0.11	0.13	0.17	

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 2010. 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})	0	0	0	0
Ammonia (mg L^{-1})	<0.05	0.78	<0.05	
Total Phosphate (mg L^{-1})	0.12	0.04	0.14	

5.0 GROUND WATER MONITORING

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

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 scheduled for inspection and assessment in the first quarter of 2011. A proposal to carry this out will be submitted to the Agency for approval in due course

7.0 INCIDENTS

There were no incidents during the reporting period.

8.0 COMPLAINTS

There were no complaints in 2010.

Environmental Protection Agency

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.12

REFERENCE YEAR	2010

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	The rearing of pigs in instatallations, whether within the same complex or within 100m of the same complex, where the capacity exceeds: 750 places for sows in breeding unit or 285 places for sows in an integrated unit, or 2,000 places for production pigs.
6.2	with 750 places for sows

Address 1	Kiernan Pig Farms
Address 2	Granard
Address 3	Co Longford
Address 4	
	Longford
Country	Ireland
Coordinates of Location	-8.53382 54.1230
River Basin District	IEWE
NACE Code	0146
Main Economic Activity	Raising of swine/pigs
AER Returns Contact Name	Gene McCarey
AER Returns Contact Email Address	genem95@gmail.com
AER Returns Contact Position	Environmental Officer
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	0863427012
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
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)
7(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 ?	

4.1 RELEASES TO AIR Link to previous years emissions data | PRTR# : P0382 | Facility Name : Mr Antone Kiernan | Filename : P0382_2010.xlsm | Return Year : 2010 | 16/11/2011 16:45

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY		
			Method Used					
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	OTH	Based on a maximum of 20% of total N excreted	8000.0	8000.0	0.0	0.0
01	Methane (CH4)	C	OTH	Based on pig type and number	80000.0	80000.0	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 AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY		
			Method Used					
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)

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY		
			Method Used					
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: Mr Antone Kiernan

Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used: Method Code	Method Used: Designation or Description	Facility Total Capacity m3 per hour	
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	

4.2 RELEASES TO WATERS

Link to previous years emissions data

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 Reporting as this only concerns Releases from your facility

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT					QUANTITY			
			Method Used					
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 B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT					QUANTITY			
			Method Used					
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)

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT					QUANTITY			
			Method Used					
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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

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	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	02 01 02	No	44.6	animal-tissue waste	R3	M	Weighed	Offsite in Ireland	Premier Proteins,P0592-02 Ballaghadereen	.,.,Ballinasloe,Co. Galway,Ireland		
Within the Country	20 03 01	No	5.72	mixed municipal waste	D5	E	Volume Calculation	Offsite in Ireland	Landfill,W0055-02	.,.,Ballaghadereen,Co. Roscommon,Ireland		
Within the Country	20 03 99	No	1.75	dry recyclables	R3	E	Volume Calculation	Offsite in Ireland	Barna Waste,W0106-02	Headford Road,.,Galway,.,Ireland		
Within the Country	18 02 02	Yes	0.07	wastes whose collection and disposal is subject to special requirements in order to prevent infection	D8	M	Weighed	Offsite in Ireland	SRCL Ltd,W0055-02	Beech Rd Western Industrial Estate Naas Road,430,Dublin,12,Ireland	Greenstar Holding,W0165-01,.,.,Ballynagran,Co. Wicklow,Ireland	.,.,Ballynagran,Co. Wicklow,Ireland
Within the Country	17 01 07	No	36.0	mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	R5	M	Volume Calculation	Offsite in Ireland	Barna Waste,W0106-02	Headford Road,.,Galway,.,Ireland		
Within the Country	**02 01 10**	**No**	2.0	waste metal	R4	E	Volume Calculation	Offsite in Ireland	Erin Recyclers,WP SO 08/93	.,.,Finisklin,Co. Sligo,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