

Annual Environment Report 2016

License Register No: P0396-01

Licensee: Maurice O'Brien

Location of Activity: Derrynanool
Mitchelstown
Co. Cork

March 2017

Table of Contents

Contents

1. Introduction	4
2. Description of the Activities	4
Table 1: Average stocking level at the site (2008-2016).....	4
3. Summary Information	5
Table 2 : Summary of Production units Used	5
3.1 Pig Manure Storage Capacity.....	5
Table 3 : Summary of available pig manure capacity (2000 – 2016)	5
3.2 Pig Manure Analyses	6
3.3 Alterations to Customers Lands	6
3.4 Contractors Undertaking Delivery of Pig Manure	6
3.5 Pig Manure Spreading Register	6
3.6 Fertiliser Plan	6
3.7 Waste Not Destined for Land spreading.....	6
Table 4 : Summary Of Waste Volumes Exported (2003-2016).....	7
3.8 Environmental Incidents and Complaints	7
3.9 Self-Monitoring Data	7
1. Ambient Surface Water Monitoring	7
Table 5 : Ambient Surface Water Monitoring Results (2010 -2016).....	8
2. Ambient Groundwater Monitoring.....	8
Table 6 : Ambient Groundwater Monitoring results (2007-2016)	8
3. Surface Water Discharge Monitoring.....	9
Table 7: Surface Water Discharge Analyses (2008 -2016)	9
4. Management of the Activity	9
4.1 Correction Action Procedures	9
4.2 Awareness and Training Programme	9
4.3 Responsibilities.....	9
4.4 Communications	10
4.5 Vermin Control.....	10
4.6 Notification Procedures.....	10
5. Tanks and Pipeline Testing and Inspection Report	10
Attachment No. 1.....	12
Surface Water Discharge Monitoring	12
Attachment No. 2.....	14
Waste Management Records.....	14
Attachment No. 3.....	18
Environmental Operating Procedures	18
Attachment No. 4.....	24

Organisational Chart	24
Attachment 5	26
SOP007 Emergency Response and Accident Prevention Procedure	26
Attachment 6	33
AER/PRTR 2016 Returns	33

1. Introduction

The document consists of reports and data to ensure fulfillment of the license obligation under the integrated pollution control license.

Licensee: Maurice O'Brien

License Reg Number: Reg No P0396-01

Location of Activity: Derrynanool, Mitchelstown, Co Cork

I.P.C Class No: 6.2

I.P.C Class Description:

The rearing of pigs in installations whether within the same complex, or within 100 meters of that complex. Where the capacity exceeds 285 places for sows in an integrated unit, where "integrated unit" means a piggery in which pigs are bred and reared to slaughter.

2. Description of the Activities

The production unit is located in an isolated site, in a wholly agricultural area, approximately 3.5 KM from Mitchelstown town center. The site is located in the catchment area of the river Funcheon a tributary of the river Blackwater. The nearest private dwelling is approximately 650m to the north of the unit.

The unit has been licensed by the Environmental Protection Agency since 31st December 1998, and the family owned business is run by Mrs. Mairead O'Brien and her son Mr. Philip O'Brien. A second license is also held Reg No P0494-01 in the townland of Corracunna, Mitchelstown and is currently used as a finishing unit for the (P0396-01) Derrynanool farm. Both licenses will be transferred into name of Mairead O'Brien before the 14th April 2017

The operating capacity of the site is set out in Table 1 below. The volume of pig's slurry exported from these stocks during 2016 was 26,539 m³.

Table 1: Average stocking level at the site (2008-2016)

Animal Type	Stock Numbers on IPC Licence Reg No 396-01	Average Stock Numbers on site for 2008	Average Stock Numbers on site for 2009	Average Stock Numbers on site for 2010	Average Stock Numbers on site for 2011	Average Stock Numbers on site for 2012	Average Stock Numbers on site for 2013	Average Stock Numbers on site for 2014	Average Stock Numbers on site for 2015	Average Stock Numbers on site for 2016
Suckling Sows	530	512	341	528	524	527	528	528	528	521
Dry Sows	1,870	1,859	1,098	1,771	1,868	1,862	1,865	1,751	1,868	1,804
Boars	20	10	4	4	15	20	15	20	20	16
Maiden Gilts	240	230	163	209	214	232	234	237	236	239
Weaners	8,200	8,049	4,848	5,829	8,195	8,180	8,190	6,347	8,191	7,748
Finishers	12,000	11,714	5,033	10,917	11,750	11,475	11,547	11,097	11,935	9,939

3. Summary Information

10,518 tonnes of animal feed, 22,282 heating oil, 1,080,182 units of electricity, 27,808m³ of water and 113,730 units of natural gas were utilised in the site in the production of pig meat during 2016.

Table 2 : Summary of Production units Used

Units	2008	2009	2010	2011	2012	2013	2014	2015	2016
Tonees of Feed	11,144	8,480	12,107	15,379	12,051	11,820	16,482	16,800	10,518
Litres of Heating Oil	326,444	258,893	397,385	295,900	123,543	62,231	117,303	84,390	22,282
Natural Gas		-		-	77,815	129,448	123,068	105,774	113,730
Units of Electricity	1,110,610	301,109	1,103,670	1,101,030	1,076,730	1,137,480	1,050,056	1,112,044	1,080,182
M3 of Water	37,664	35,621	34,500	35,602	32,133	31,655	44,369	44,417	27,808

3.1 Pig Manure Storage Capacity

The available pig manure storage capacity is recorded monthly on site. This data is summarized in Table 3 below, and presented as the % of storage capacity available at the end of each month. The empirical data demonstrates that there is sufficient suitable storage on site. The available slurry storage capacity of this farm is 32,195 m³.

Table 3 : Summary of available pig manure capacity (2000 – 2016)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2000	51%	51%	48%	42%	37%	68%	68%	67%	65%	55%	45%	37%
2001	33%	35%	39%	37%	49%	66%	70%	76%	73%	70%	61%	49%
2002	41%	36%	43%	52%	54%	49%	67%	68%	71%	67%	63%	46%
2003	36%	38%	42%	60%	59%	66%	70%	76%	72%	72%	66%	57%
2004	44%	49%	58%	48%	56%	45%	52%	60%	61%	57%	52%	50%
2005	28%	22%	27%	30%	29%	35%	50%	53%	51%	53%	44%	37%
2006	30%	32%	78%	46%	44%	44%	55%	48%	38%	41%	34%	25%
2007	20%	21%	23%	56%	41%	49%	46%	55%	53%	51%	43%	39%
2008	31%	35%	39%	45%	49%	58%	69%	72%	81%	78%	69%	60%
2009	100%	100%	100%	100%	100%	100%	100%	100%	96%	90%	75%	72%
2010	43%	35%	59%	75%	69%	68%	68%	73%	85%	81%	79%	75%
2011	63%	59%	57%	59%	66%	70%	71%	69%	88%	74%	60%	52%
2012	69%	65%	72%	71%	78%	71%	65%	66%	72%	71%	75%	68%
2013	69%	65%	72%	71%	78%	71%	65%	66%	72%	71%	75%	68%
2014	40%	39%	49%	66%	71%	74%	65%	70%	70%	63%	60%	53%
2015	40%	39%	49%	66%	71%	74%	65%	70%	70%	63%	60%	53%
2016	22%	23%	50%	61%	46%	48%	47%	43%	43%	61%	49%	38%

3.2 Pig Manure Analyses

The nutrient content of pig manure from this facility is currently in accordance with S.I No 31 of 2014 as 0.8 KGs P/M3 and 4.2 KGs N/M3

3.3 Alterations to Customers Lands

Pig organic waste was delivered or collected by farmers in the area for use as fertilizer to produce agriculture crops in accordance with the nitrate directive regulation (S.I No 31 2014) during 2016. A summary report was sent to the Department of Agriculture Food & Marine (22nd December 2016) outlining the individual farms which received a total of 26,539 m³ organic waste.

3.4 Contractors Undertaking Delivery of Pig Manure

There were no alterations of the list of contactors undertaking delivery of pig manure to customer farms during this period.

3.5 Pig Manure Spreading Register

A pig manure register is maintained on site. This register contains commercial sensitive information on site for inspection during normal hours. The pig manure from this facility is utilized as fertilizer on agricultural crops, on clearly identified parcels of land, in accordance with nutrients requirements and therefore is not waste, as determined by the European Court of Justice. During 2016, 26,539 m³ of pig manure was delivered to existing customers for use as an agricultural fertilizer, at rates required by a fertilizer plan.

3.6 Fertiliser Plan

Fertilizer plan for customer farms are the responsibility of the individual customer as is farm responsibility to ensure compliance with the nitrate directive regulation.

3.7 Waste Not Destined for Land spreading

The waste management records for waste not destined for land spreading are included as Attachment No 2. These include the registers for pig carcasses, general refuse, veterinary waste and the total volumes removed off site are set out in Table 4.

Table 4 : Summary Of Waste Volumes Exported (2003-2016)

Waste Type	Pig Carcasses (Tonnes)	Veterinary Waste (Litres)	General Refuse (Tonnes)	Fluorescent Tubes (Kg)
	EWC 18 02 01	EWC 02 01 03	EWC 02 01 04	
2003	166.02	12	11.63	
2004	185.56	4	12.3	
2005	223.71	4	11.4	
2006	290.99	5	12.1	
2007	260.64	14	11.79	
2008	254.3	20	12.11	
2009	105.2	20	11.14	
2010	139.95	20	7.61	
2011	135.39	20	9.8	32
2012	136	8.2	10.51	
2013	149.3	21	10.14	
2014	130.94	36	9.83	
2015	151.04	70	10.5	
2016	150.8	40	3.9	

3.8 Environmental Incidents and Complaints

There are no complaints or incidents regarding the facility in the reporting period. This facility was last inspected by the Agency on 19th December 2014 and the resultant inspection report was issued on the 21st January 2015. This was an unannounced inspection. There were no non-compliances issued during this inspection.

3.9 Self-Monitoring Data

1. Ambient Surface Water Monitoring

A summary of ambient surface water monitoring, ground monitoring, and storm water monitoring for this facility for 2010 to 2016 is set out in Table 5.

Higher than expected results for Q1 were noted for BR10 and BR11. High levels were noted on BR10 which is the most northern point of the farm and where the stream enters the lands of the farm and forms the boundary of the site. Both discharge points BS1 and BS2 were also sampled on the same date and results were consistent with previous reading.

Table 5 : Ambient Surface Water Monitoring Results (2010 -2016)

Date	Location Ref	COD	Ammonia	Total "N"	Total "P"	Date	Location Ref	COD	Ammonia	Total "N"	Total "P"
2010	BR 10	Dry	Dry	Dry	Dry	2013	BR 10	32	<0.01	7.2	0.11
1st QTR	BR 11	Dry	Dry	Dry	Dry	1st QTR	BR 11	39	0.01	9.8	0.21
2010	BR 10	Dry	Dry	Dry	Dry	2013	BR 10	48	2.5	5	0.4
2nd QTR	BR 11	Dry	Dry	Dry	Dry	2nd QTR	BR 11	35	1.4	2.6	0.5
2010	BR 10	8	0.6	7.1	3.6	2013	BR 10	18	0.7	7.5	0.6
3rd QTR	BR 11	16	2.3	2.8	1.7	3rd QTR	BR 11	18	0.7	7.5	0.62
2010	BR 10	7	0.2	1.9	0.4	2013	BR 10	12	0.03	1.2	0.02
4th QTR	BR 11	6	0.1	0.5	0.3	4th QTR	BR 11	7	0.01	0.7	<0.01
2011	BR 10	Dry	Dry	Dry	Dry	2014	BR 10	Dry	Dry	Dry	Dry
1st QTR	BR 11	Dry	Dry	Dry	Dry	1st QTR	BR 11	Dry	Dry	Dry	Dry
2011	BR 10	Dry	Dry	Dry	Dry	2014	BR 10	6	0.03	0.5	0.1
2nd QTR	BR 11	Dry	Dry	Dry	Dry	2nd QTR	BR 11	7	0.04	0.5	0.09
2011	BR 10	8	3.3	8.3	0.6	2014	BR 10	32	0.02	1.4	0.1
3rd QTR	BR 11	10	2.4	9.1	0.5	3rd QTR	BR 11	37	0.05	1.7	0.06
2011	BR 10	Dry	Dry	Dry	Dry	2014	BR 10	31	0.14	0.4	0.25
4th QTR	BR 11	Dry	Dry	Dry	Dry	4th QTR	BR 11	26	0.05	0.3	0.32
2012	BR 10	39	0.08	11.9	0.63	2015	BR 10	32	0.71	2.8	0.62
1st QTR	BR 11	31	0.06	11.1	0.6	1st QTR	BR 11	29	0.63	2.7	0.61
2012	BR 10	44	1.6	1	0.62	2015	BR 10	44	6.4	12.5	1.87
2nd QTR	BR 11	43	1.7	0.8	1.56	2nd QTR	BR 11	17	3.6	16.7	0.62
2012	BR 10	Dry	Dry	Dry	Dry	2015	BR 10	58	0.08	4.5	0.64
3rd QTR	BR 11	Dry	Dry	Dry	Dry	3rd QTR	BR 11	29	0.22	4.3	0.62
2012	BR 10	35	0.35	2.8	1.04	2015	BR 10	40	0.7	5.8	0.75
4th QTR	BR 11	32	0.35	2.8	1.03	4th QTR	BR 11	42	0.8	5.9	0.84
2016	BR 10	34	0.96	3.2	0.6						
1st QTR	BR 11	38	0.9	2	0.61						
2016	BR 10	39	0.25	3	0.16						
2nd QTR	BR 11	11	0.12	2.7	0.15						
2016	BR 10	61	0.18	3.4	0.59						
3rd QTR	BR 11	44	0.15	2.7	0.54						
2016	BR 10	33	0.5	5.4	0.36						
4th QTR	BR 11	36	<0.1	6.1	0.35						

2. Ambient Groundwater Monitoring

Table 6 : Ambient Groundwater Monitoring results (2007-2016)

Table 6 shows the result obtained for groundwater analyses

Date	Location Ref	Nitrate	Total Ammonia	F.COLI
1st Aug 2007	BW1	2.9	0.25	0
1st Aug 2007	BW2	2.7	0.24	0
7th May 2008	BW1	3.3	0.37	0
7th May 2008	BW2	2.3	0.64	0
23rd March 2009	BW1	1.4	0.1	0
2nd April 2009	BW2	2.9	0.1	0
17th August 2010	BW1	2.9	0.1	0
17th August 2010	BW2	3.1	0.1	0
5th October 2011	BW1	2.8	0.06	0
5th October 2011	BW2	2.9	0.06	0
12th December 2012	BW1	1.7	0.02	0
12th December 2012	BW2	3.2	0.06	0
10th October 2013	BW1	3.2	0	0
10th October 2013	BW2	2.6	0	0
12th December 2014	BW1	4.1	0.05	0
12th December 2014	BW2	3.4	0.3	0
8th June 2015	BW1	2.8	<0.02	0
8th June 2015	BW2	1.7	<0.02	0
23rd February 2016	BW1	2.3	0.01	0
23rd February 2016	BW2	3.9	0.03	0

3. Surface Water Discharge Monitoring

The surface water discharge points at the site are visually inspected weekly, (a copy of this register is included in Attachment 1), and sample quarterly. Table 7 outlines the results of surface water discharge analyses.

Table 7: Surface Water Discharge Analyses (2008 -2016)

Date	Monitoring Point Ref	COD mg/l 2008	COD mg/l 2009	COD mg/l 2010	COD mg/l 2011	COD mg/l 2012	COD mg/l 2013	COD mg/l 2014	COD mg/l 2015	COD mg/l 2016
1st QTR	BS1	27	<1.0	Dry	Dry	42	13	Dry	9	61
	BS2	8	<1.0	Dry	Dry	41	17	Dry	7	44
2nd QTR	BS1	1	>1	Dry	Dry	5	45	10	27	202
	BS2	1	>1	Dry	Dry	<1	46	7	31	<3
3rd QTR	BS1	22.5	>1	11	2	Dry	9	9	16	18
	BS2	21.5	>1	17	3	Dry	13	8	6	18
4th QTR	BS1	7	28	<1	<1	5	9	18	<3	<3
	BS2	1	29	<1	3	12	13	<1	<3	<3

4. Management of the Activity

4.1 Correction Action Procedures

A copy of the correction action procedure for this site is included as Attachment No 3. There were no non-compliances issued in respect of this facility during this period. These instructions will be aligned or replaced with the new Key SOP007 Emergency Responses and Accident Prevention Procedure over 2017.

4.2 Awareness and Training Programme

A copy of the awareness and training procedure for this site is included in Attachment 3. These instructions will be aligned or replaced with the new Key SOP007 Emergency Responses and Accident Prevention Procedure over 2017.

4.3 Responsibilities

The organizational chart for the environmental management of the site is included in Attachment 4. This team will lead the response to emergency response for the site. A new Key SOP007 Emergency Response and Accident Prevention Procedure was developed to help put a management system in place to prepare the team for such an event. This SOP will continue to be update as the scenario are developed for the farm.

The process of transferring the license is under review and the application process to transfer the license from the deceased Mr. Maurice O'Brien to his wife Mrs. Mairead O'Brien and son Mr. Philip O'Brien will be completed on the 14th April 2017. A joint application to the Environmental Protection Agency as per section 94 of the Environmental Protection Agency Act 1992 as amended section 47 of the waste Management Act 1996 will be adhered to.

4.4 Communications

A copy of the public information programme for this site is included in Attachment 3.

4.5 Vermin Control

Vermin control is carried out on site by staff. A register is maintained of these inspections. A copy of this register is available on site for inspection.

4.6 Notification Procedures

A copy of notification procedures for this site is included in Attachment 3. These instructions will be aligned or replaced with the new Key SOP007 Emergency Responses and Accident Prevention Procedure over 2017.

5. Tanks and Pipeline Testing and Inspection Report

A tank pipeline inspection report was submitted to the Agency on the 3rd March 2010. The inspection of all storage tanks on site was possible due to the de-stock and re-stock programme undertaken on site in 2009.

Signed

A handwritten signature in cursive script, appearing to read 'R. J. J. J.', written over a horizontal line.

Date

A handwritten date '31st March 2017' written over a horizontal line.

Attachment No. 1

Surface Water Discharge Monitoring

IPC LICENCE REG. NO PO 0396-01
 LICENSEE O'Brien Pig Enterprises
 LOCATION Derrynanool, Mitchelstown, Co. Cork

MONITORING POINT BS1 and BS2

WEEKLY

2016

DATE	BS1	COMMENT	Clean	Clear	DATE	BS2	Clean	Clear	COMMENT
05-Jan	Fast Flow	OK	Yes	Yes	05-Jan	Fast Flow	Yes	Yes	OK
11-Jan	No Flow	OK	Yes	Yes	11-Jan	No Flow	Yes	Yes	OK
18-Jan	Fast Flow	OK	Yes	Yes	05-Jan	Fast Flow	Yes	Yes	OK
25-Jan	No Flow	OK	Yes	Yes	25-Jan	No Flow	Yes	Yes	OK
02-Feb	Fast Flow	OK	Yes	Yes	02-Feb	Fast Flow	Yes	Yes	OK
09-Feb	Fast Flow	OK	Yes	Yes	09-Feb	Fast Flow	Yes	Yes	OK
15-Feb	Fast Flow	OK	Yes	Yes	15-Feb	Fast Flow	Yes	Yes	OK
23-Feb	No Flow	OK	Yes	Yes	23-Feb	No Flow	Yes	Yes	OK
29-Feb	Fast Flow	OK	Yes	Yes	29-Feb	Fast Flow	Yes	Yes	OK
07-Mar	Fast Flow	OK	Yes	Yes	07-Mar	Fast Flow	Yes	Yes	OK
14-Mar	No Flow	OK	Yes	Yes	14-Mar	No Flow	Yes	Yes	OK
21-Mar	No Flow	OK	Yes	Yes	21-Mar	No Flow	Yes	Yes	OK
29-Mar	No Flow	OK	Yes	Yes	29-Mar	No Flow	Yes	Yes	OK
04-Apr	Fast Flow	OK	Yes	Yes	04-Apr	Fast Flow	Yes	Yes	OK
11-Apr	Fast Flow	OK	Yes	Yes	11-Apr	Fast Flow	Yes	Yes	OK
18-Apr	No Flow	OK	Yes	Yes	18-Apr	No Flow	Yes	Yes	OK
26-Apr	No Flow	OK	Yes	Yes	26-Apr	No Flow	Yes	Yes	OK
02-May	No Flow	OK	Yes	Yes	02-May	No Flow	Yes	Yes	OK
09-May	No Flow	OK	Yes	Yes	09-May	No Flow	Yes	Yes	OK
16-May	No Flow	OK	Yes	Yes	16-May	No Flow	Yes	Yes	OK
23-May	No Flow	OK	Yes	Yes	23-May	No Flow	Yes	Yes	OK
30-May	No Flow	OK	Yes	Yes	30-May	No Flow	Yes	Yes	OK
07-Jun	No Flow	OK	Yes	Yes	07-Jun	No Flow	Yes	Yes	OK
13-Jun	No Flow	OK	Yes	Yes	13-Jun	No Flow	Yes	Yes	OK
20-Jun	No Flow	OK	Yes	Yes	20-Jun	No Flow	Yes	Yes	OK
27-Jun	No Flow	OK	Yes	Yes	27-Jun	No Flow	Yes	Yes	OK
04-Jul	No Flow	OK	Yes	Yes	04-Jul	No Flow	Yes	Yes	OK
11-Jul	No Flow	OK	Yes	Yes	11-Jul	No Flow	Yes	Yes	OK
18-Jul	No Flow	OK	Yes	Yes	18-Jul	No Flow	Yes	Yes	OK
25-Jul	No Flow	OK	Yes	Yes	25-Jul	No Flow	Yes	Yes	OK
02-Aug	Flow	OK	Yes	Yes	02-Aug	Flow	Yes	Yes	OK
08-Aug	No Flow	OK	Yes	Yes	08-Aug	No Flow	Yes	Yes	OK
15-Aug	No Flow	OK	Yes	Yes	15-Aug	No Flow	Yes	Yes	OK
22-Aug	Flow	OK	Yes	Yes	22-Aug	Flow	Yes	Yes	OK
29-Aug	No Flow	OK	Yes	Yes	29-Aug	No Flow	Yes	Yes	OK
5th Sept	Flow	OK	Yes	Yes	5th Sept	Flow	Yes	Yes	OK
12th Sept	Very Fast Flow	OK	Yes	Yes	12th Sept	Very Fast	Yes	Yes	OK
19th Sept	No Flow	OK	Yes	Yes	19th Sept	No Flow	Yes	Yes	OK
26th Sept	Flow	OK	Yes	Yes	26th Sept	Flow	Yes	Yes	OK
3rd Oct	No Flow	OK	Yes	Yes	3rd Oct	No Flow	Yes	Yes	OK
10th Oct	No Flow	OK	Yes	Yes	10th Oct	No Flow	Yes	Yes	OK
17th Oct	Flow	OK	Yes	Yes	17th Oct	Flow	Yes	Yes	OK
24th Oct	No Flow	OK	Yes	Yes	24th Oct	No Flow	Yes	Yes	OK
1st Nov	No Flow	OK	Yes	Yes	1st Nov	No Flow	Yes	Yes	OK
7th Nov	No Flow	OK	Yes	Yes	7th Nov	No Flow	Yes	Yes	OK
14th Nov	No Flow	OK	Yes	Yes	14th Nov	No Flow	Yes	Yes	OK
21st Nov	No Flow	OK	Yes	Yes	21st Nov	No Flow	Yes	Yes	OK
28th Nov	No Flow	OK	Yes	Yes	28th Nov	No Flow	Yes	Yes	OK
5th Dec	No Flow	OK	Yes	Yes	5th Dec	No Flow	Yes	Yes	OK
12th Dec	Flow	OK	Yes	Yes	12th Dec	Flow	Yes	Yes	OK
19th Dec	Flow	OK	Yes	Yes	19th Dec	Flow	Yes	Yes	OK
28th Dec	Flow	OK	Yes	Yes	28th Dec	Flow	Yes	Yes	OK

Attachment No. 2

Waste Management Records

Waste Management Record – Caresses

IPC LICENSE REG NO P0396-01
 LICENSEE Mairlead O'Brien
 LOCATION Derrynanool, Mitchelstown, Co. Cork

WASTE MANAGEMENT REGISTER

WASTE: ANIMAL CARCASSES (Code No 02 01 02)
 CONTRACTOR: Wm. Fitzgerald, Kilmager, Fermoy, Co Cork
 DESTINATION: Waterford Proteins, Christendom, Ferrybank, Waterford.

2016

DATE	Weight Tonnes	COLLECTED BY
05-Jan	2.84	John Dawson
11-Jan	2.22	John Dawson
18-Jan	3.72	John Dawson
25-Jan	3	John Dawson
01-Feb	3.14	John Dawson
08-Feb	3.24	Tom Finn
15-Feb	4.4	Sarunas
22-Feb	4.68	Sarunas
29-Feb	3.94	Sarunas
07-Mar	4	John Dawson
14-Mar	2.18	John Dawson
21-Mar	2.68	John Dawson
29-Mar	2.56	John Dawson
04-Apr	2.4	John Dawson
11-Apr	1.78	John Dawson
18-Apr	3.02	John Dawson
25-Apr	2.22	John Dawson
03-May	2.86	John Dawson
09-May	2.84	John Dawson
16-May	1.56	John Dawson
23-May	2.84	John Dawson
30-May	2.94	John Dawson
07-Jun	3	Philip O'Brien
13-Jun	2.6	Philip O'Brien
20-Jun	1.62	John Dawson
27-Jun	2.68	John Dawson
04-Jul	2.54	John Dawson
11-Jul	2.7	John Dawson
18-Jul	2.64	John Dawson
25-Jul	2.66	John Dawson
02-Aug	3.6	Mairlead O'Brien
08-Aug	2.12	John Dawson
15-Aug	2.6	John Dawson
22-Aug	2.84	John Dawson
29-Aug	3.04	John Dawson
5th Sept	3.12	John Dawson
12th Sept	5.18	Sarunas
19th Sept	2.86	Sarunas
26th Sept	2.98	Sarunas
3rd Oct	2.3	John Dawson
10th Oct	2.64	Mairlead O'Brien
17th Oct	3.12	Mairlead O'Brien
24th Oct	2.64	Mairlead O'Brien
1st Nov	3.54	Mairlead O'Brien
7th Nov	2.88	Mairlead O'Brien
14th Nov	3.48	Mairlead O'Brien
21st Nov	2.66	Mairlead O'Brien
28th Nov	2.7	Mairlead O'Brien
5th Dec	3.66	Sarunas
12th Dec	2.92	Sarunas
19th Dec	2.408	Sarunas
22nd Dec	2.06	M O'Brien
Total	150.848	

Waste Management Record – Cardboard & Paper

IPC LICENSE REG. NO. PO0396-01
 LICENSEE Maircad O'Brien
 LOCATION Derrynanool, Mitchelstown, Co. Cork

WASTE MANAGEMENT REGISTER

2016

WASTE: PAPER AND CARDBOARD
 CONTRACTOR: COUNTRY CLEAN
 DESTINATION: CORK CO. COUNCIL LAND-FILL

DATE	VOLUME (kg)	Delivered BY
12-Jan	120	Jon Pometoski
26-Jan	130	Jon Pometoski
09-Feb	121	Jon Pometoski
23-Feb	70	Jon Pometoski
08-Mar	80	Jon Pometoski
22-Mar	90	Jon Pometoski
05-Apr	67	Jon Pometoski
19-Apr	90	Jon Pometoski
03-May	80	Jon Pometoski
17-May	90	Jon Pometoski
23-May	98	Jon Pometoski
30-May	100	Jon Pometoski
07-Jun	95	Jon Pometoski
13-Jun	120	Jon Pometoski
20-Jun	145	Jon Pometoski
27-Jun	120	Jon Pometoski
04-Jul	90	Jon Pometoski
11-Jul	103	Jon Pometoski
18-Jul	121	Jon Pometoski
25-Jul	98	Jon Pometoski
02-Aug	95	Jon Pometoski
08-Aug	89	Jon Pometoski
15-Aug	115	Jon Pometoski
29-Aug	110	Jon Pometoski
5th Sept	105	Jon Pometoski
12th Sept	90	Jon Pometoski
19th Sept	98	Jon Pometoski
26th Sept	110	Jon Pometoski
3rd Oct	95	Jon Pometoski
10th Oct	118	Jon Pometoski
17th Oct	115	Jon Pometoski
24th Oct	95	Jon Pometoski
3rd Nov	102	Jon Pometoski
14th Nov	95	Jon Pometoski
21st Nov	80	Jon Pometoski
28th Nov	70	Jon Pometoski
5th Dec	85	Jon Pometoski
12th Dec	95	Jon Pometoski
19th Dec	88	Jon Pometoski
28th Dec	78	Jon Pometoski
Total	3956	

Waste Management Record - Veterinary

IPC LICENSE REG NO P0396-01
 LICENSEE Mairead O'Brien
 LOCATION Carracunna, Mitchelstown, Co. Cork

WASTE MANAGEMENT REGISTER

WASTE: Veterinary Waste (Code No 18 02 01)
 Sterile Technologies IRL, 430 Beech Road, Western Ind
 CONTRACTOR: Est, Dublin 12
 DESTINATION: ENVA, Raffeen Industrial Estate, Ringaskiddy Road,
 Monkstown, Co Cork

2016

DATE	Volume	COLLECTED BY
30-Sep	4 X 10 litre	SCRL
Total	40 Litres	

Attachment No. 3

Environmental Operating Procedures

IPC LICENCE REG No P0396-01

LICENSEE: MAURICE O BRIEN

LOCATION: DERRYNANOOOL, MITCHELSTOWN, CO CORK

Corrective Action Procedure

In the event of a reported non-conformity, responsibility and authority for initiating further investigation and corrective action shall follow the following steps:

- Determine the reasons why the specified requirements were not met
- Draw up a plan of action to correct non-conformity with the specified requirements.
- Implement preventive actions to a level corresponding to the risk encountered
- Apply control measures to ensure that corrective actions are taken and that they are effective
- Implement and record any changes in procedures resulting from corrective actions
- Provide appropriate training or retraining as may be necessary.

Report on Emergency Incidents

As part of IPC License register number P0396-01 there is a requirement to inform the Environment Protection Agency of the following:

- Incidents that may affect the normal operation of the activity and which may create an environmental risk.
- Emergency situations that develop on site.
- Malfunction of any continuous monitors.
- Any malfunction or breakdown of control equipment or monitoring equipment.
- Any release to atmosphere or emission that does not comply with the requirement of the license.

Date of Incident:
Time of Incident:
IPC Register Number:
Location:
Licensee:
Description of Incident:
Description of Action Taken:
Authorities Contacted:

Signed:

Date:

**O'Brien Pig Enterprises,
Derrynanool, Mitchelstown, Co Cork
IPC License Reg No P0396-01
Phone 025 84990 Fax 025 84111**

Emergency Response Procedure

In the event of any emergency situation developing on site, which may create, and environmental risk, make contact and notify the following:

Environmental Protection Agency:	Phone: 021-4875540	Fax 021-4875545
Outside of Office Hours:	Phone 1890335599	
Cork County Council:	Phone: 022-21123	Fax: 022-21983
Southern Regional Fisheries Board:	Phone 052-23624	Fax 052-80055

If Excavating Machinery is required:	Thomas Finn: 086-3400369
If Slurry Tankers are required:	Thomas Finn: 086-3400369 Philip O'Brien: 086-8237676

If Structural Damage has occurred:	Thomas Finn: 086-3400369
Philip O'Brien: 086-8237676	

Ventilation System:	Thomas Finn: 086-340036
	James McNamara 086-8584545

IDS 0502-21224

Fire Brigade: 999
Garda: 025-84823

Public Information Programme

Condition No 2.4.1, Of IPC License Reg NoP0396-01 states that “the licensee shall put in place a programme to ensure that members of the public can obtain information concerning the environmental performance of the license at all reasonable times”.

O’Brien Enterprises is committed to ensuring that members of the public have access to all relevant documentation, during reasonable working hours. However, because of disease control measures an appointment must be made by contacting 025-84990.

The following documentation is available to members of the public, in the unit office, at all reasonable times:

1. IPC License application submitted to the agency
2. All correspondence with the Environmental Protection Agency (EPA) prior to the issue of the License.
3. All correspondence with, and reports sent to the agency, since the License was issued.
4. Pig manure register.
5. Pig manure storage capacity information.
6. Complaints register.
7. All relevant waste registers maintained on file.

Note: All Site visitors must sign the “Visitors Register”

IPC LICENCE REG: No P0396-01

LICENSEE: MAURICE O' BRIEN

LOCATION: MITCHELSTOWN, MITCHELSTOWN, CO CORK

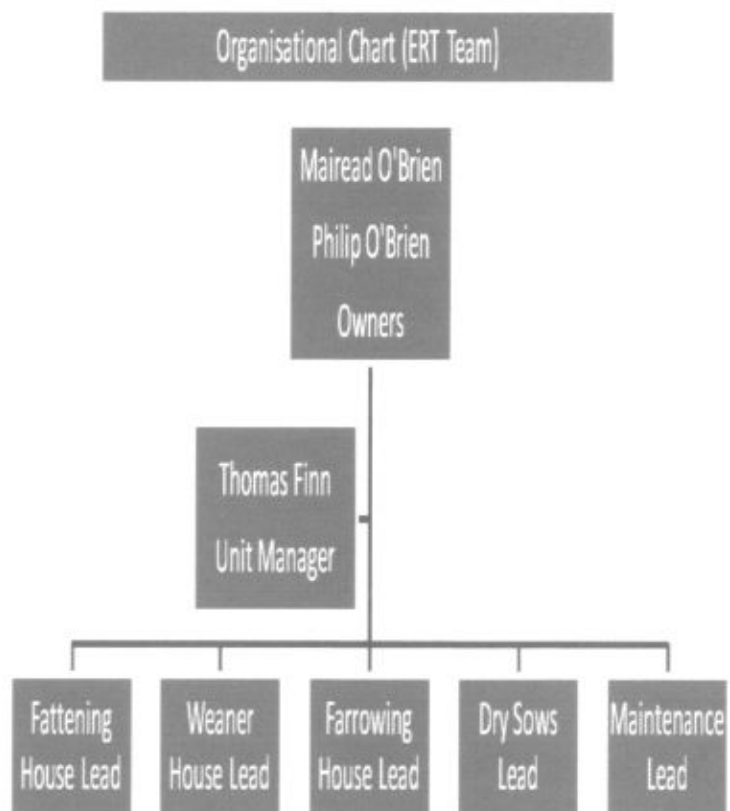
Environmental Training Procedure

- The Licensee is responsible for ensuring that all environmental training is carried out.
- Appropriate training records are kept for each employee.
- These records are regularly updated.
- All new employees whose job has a direct influence on the environment receive training on the commencement of employment.
- Outside contractors involved in pig manure management are regularly checked by the licensee to ensure proper training has been received, and a copy of the code of practice for land spreading of organic manure is being kept on equipment.

Attachment No. 4

Organisational Chart

Maurice O'Brien,
Derrynanool,
Mitchelstown, Co Cork.



Attachment 5

SOP007 Emergency Response and Accident Prevention Procedure

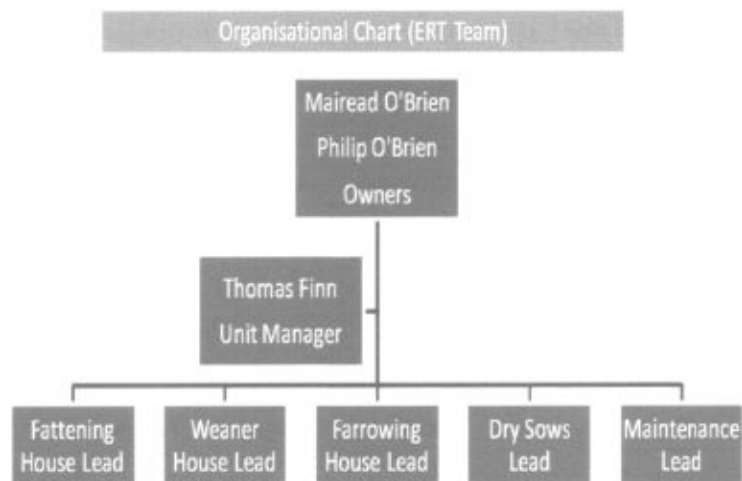
1. Purpose

This document provides a description of the plans for the management of emergencies in the Derrynanool site. The purpose of the procedure is to ensure that all potential major emergency scenarios identified on site that there is a structure and plan in place to manage potential major emergencies. This document will also provide information to assist the emergency services. Additional forms and work instruction will also be used where appropriate.

2. Scope

This procedure identifies the roles and responsibilities of key personnel on farm, and the arrangements in place for communications, both in planning and in managing major emergencies. It details the process for conducting audits and reviewing of major emergency management arrangements. The emergency management structure is detailed in Figure 1.

Figure 1 Emergency Response Team



A Major emergency is defined as:

- Large uncontained Fire
- Explosion
- Slurry release
- Environmental Off-Site impact
- Flooding
- Gas fire or leak

The Emergency Response Team (ERT) will provide any responses needed to:

- Government Departments and Regulatory Agencies requirements.

3.0 Responsibilities Planning for Major Emergency

3.1 Site Unit Manager

- Has overall responsibility for ensuring that adequate resources and structures are in place to deal adequately with major emergencies, including out-of-hours arrangements
- Ensures the ERT is adequately trained to handle any major emergency scenarios identified.
- Ensures that the site Emergency Management arrangements are periodically tested and reviewed, in accordance with predetermined criteria in Figure 2.

Figure 2 Test Criteria

TYPE	Content	Yes / NO	Responsibility
Data verification.	Check of the information contained in the emergency plan is available and up to date.	1. The information is (A)accurate (B) up to date	Unit Manager

- Ensure that maps of the local area are available to facilitate the Fire Brigade or other agencies requesting them.
- Ensures any fire, safety equipment and information are provided and maintained on the site
- To ensure that the general documentation is up-dated as necessary to take account of changing circumstances
- Ensure all relevant drawings and procedures are up to date.
- To ensure that all necessary equipment to deal with a spillage is available for emergency purposes.
- Where possible consults, on an on-going basis with the local emergency services on site specific hazards, emergency response equipment and local emergency response units.
- To lead the follow-up investigation team.
- To compile and circulate notifications and reports of an incident to the Environmental Protection Agency
- Provides advice and direction in relation to major emergency management policy.
- Maintains an up-to-date list of key contacts
- Ensures all major emergency scenarios are identified and assessed,
- Ensures that adequate emergency management arrangements are provided for all scenarios identified
- Ensures that safe shutdown procedures (manual or automatic) are identified for all area operations in the event of a major emergency
- The contact point for the emergency is selected from the following ERT team (See Figure 2)

4. Procedure

4.1 General

Where an incident develops into a major emergency the emergency plan is brought into action one of the ERT will take the responsibility of leading the response.

The relevant emergency services will be notified by the ERT lead.

A list of emergency contacts for Key Personnel and Services is maintained.

4.2 Contact with Emergency Services

The ERT lead will continue to liaises with the Emergency Services/Fire Officer.

4.3 Minimizing Damage to Property and the Environment

All possible efforts should be made to contain the emergency within the site, and to prevent environmental pollution.

Major spillages of hazardous material should be dealt with in accordance with the company procedures.

4.4 Regulatory Notifications

- In the event of an emission the Environmental Protection Agency and the Southern Fisheries board to be immediately informed by the ERT lead.
- Drawings of the site showing the location of buildings, storage tanks, fire hydrants, fire water system.
- Firefighting equipment and materials.
- Drawings of individual buildings showing access points to utilities (gas, electricity, stand by generator, water, and stored chemicals)
- Copies of all Emergency Plans and Procedures.
- Hard copies of Material Safety Data Sheets.
- Key Personnel List/Contact Numbers & Key Emergency Telephone Numbers.
- Site plans that can be marked up to show the development of an incident and other related information.

5. Training

- Training procedures are described in the HACCP plan and individual staff member training is scheduled from this document.

- Environmental Management System Safety Statement is also contained in the HACCP training file.

6. Preventative Maintenance

Maintenance programmes comprises:

- process equipment
- service contracts
- continuous monitoring

Currently 8 hours of maintenance is completed daily for plant equipment Monday to Friday and at weekends when required.

7. Water

7.1 Storm Water Drainage System

Storm water from the developed area of the site is collected by two channel drainage systems. The surface run-off drains from housing and internal roads. The surface water discharge point BS1 takes surface water from the northern part of the site is then discharged to a small stream. BS2 is a discharge point for the southern part of the site and runs into the same small stream approximately 300 meters downstream. This stream runs into the river Funcheon, a tributary of the river Blackwater.

A visual inspection is completed daily and weekly results recorded. Water samples are sent externally for COD analysis for both BS1 and BS2 on a quarterly basis and results submitted as part of the annual AER reporting.

7.2 Surface Water Monitoring

A stream runs on the boundary of the farm entering the farm at the most northern point. Surface water monitoring point BR10 is clearly marked. The stream exits the farm on the most southern point and a surface water monitoring point is marked BR11. Water samples are sent externally for testing of COD, Total Ammonia, Total Nitrogen and Total Phosphate on a quarterly basis. Results are submitted to the EPA as part of the annual AER reporting.

7.3 Ground Water Monitoring

Ground water monitoring is achieved with the use of water samples from 2 production wells BW1 and BW2 which provide water to the farm. Water samples are sent externally for testing for Nitrate, Total Ammonia, Faecal Coliforms, E coli, and Enterococci.

8. Dangerous Substances

8.1 Bulk Harmful Substances

- Formic gas - used to heat water
- Hydrochloric acid- used in the cleaning of feed lines.
- Oil- used as a fuel for boilers, and forklifts
- Slurry Storage

9. Bulk Materials

Haulers contracted by suppliers make deliveries to site. Where hazardous chemicals are involved, the drivers have been trained by the suppliers in safe handling and emergency procedure.

10. Spillage Containment

10.1 Emergency Spillages

In the event of a spillage of a material, the unit manager would determine the total amount spilled. Based on on-site analysis and advice from the material supplier the organisation would decide what should be done with the material;

- used on-site for its original intended purpose
- returned to the supplier
- treated on-site or off-site prior to disposal or recovery.

10.2 Composition of Used Firewater

If a fire was to occur wood solids and animal flesh may be at a concentration, which would require removal. There is some risk of contamination with water usage of and therefore the risk of loss to surface water is a possibility.

10.3 Emergencies Natural Gas

The Natural Gas is used to heat the water and provides heat for animal rearing.

Where possible the flow of gas is stopped by isolation of source; extinguishing gas flames without isolation may cause an explosion. The gas burning freely in air will not produce hazardous products of combustion. Where possible isolate the supply of gas and ventilate the area. - Eliminate all sources of ignition. - Evacuate people from the area.

Advice should be sought from Bord Gais. Tel. 021-4534000, Emergency No.1850 205050. - The Local Fire Brigade should be called for assistance.

Attachment 6

AER/PRTR 2016 Returns



Environmental Protection Agency

| PRTR#: P0396 | Facility Name: Mr Maurice O'Brien (Derrynanool) | Filename: P0396_2016 (2) xls | Return Year: 2016 |

Guidance to completing the PRTR workbook

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2016
-----------------------	------

1. FACILITY IDENTIFICATION

Parent Company Name	Mr Maurice O'Brien
Facility Name	Mr Maurice O'Brien (Derrynanool)
PRTR Identification Number	P0396
Licence Number	P0396-01

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Derrynanool
Address 2	Mitcheistown
Address 3	
Address 4	
	Cork
Country	Ireland
Coordinates of Location	-8.35156 52.2660
River Basin District	IESW
NACE Code	0146
Main Economic Activity	Raising of swine/pigs
AER Returns Contact Name	Brendan O'Sullivan
AER Returns Contact Email Address	osullivanbrendan234@gmail.com
AER Returns Contact Position	Business Consultant
AER Returns Contact Telephone Number	086 8277284
AER Returns Contact Mobile Phone Number	
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	20
User Feedback/Comments	
Web Address	

SECTION A - SECTOR SPECIFIC PRIOR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			ADD EMISSION POINT		QUANTITY	
No. Annex II	Name	MICE	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
06	Amonia (NH3)	C	OTH	EPA Calculations tool	0.0	4367.9	0.0	4367.9
01	Methane (CH4)	C	OTH	EPA Calculations tool	0.0	26832.1	0.0	26832.1
05	Nitrous oxide (N2O)	C	OTH	EPA Calculations tool	0.0	261.1	0.0	261.1

ADD NEW ROW DELETE ROW* * Select a row by double-clicking on the Pollutant Name (Column 1), then click the delete button

SECTION B - REMAINING PRIOR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			ADD EMISSION POINT		QUANTITY	
No. Annex II	Name	MICE	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

ADD NEW ROW DELETE ROW* * Select a row by double-clicking on the Pollutant Name (Column 1), 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			ADD EMISSION POINT		QUANTITY	
Pollutant No.	Name	MICE	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

ADD NEW ROW DELETE ROW* * Select a row by double-clicking on the Pollutant Name (Column 1), 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 utilized on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane emission to the environment under 'Total' KG/yr for Section A, Sector specific PRR pollutants above. Please complete the table below:

Landfill:

Mr Maurice O'Brien (Detymarac)

Please enter summary data on the quantities of methane flared and / or utilized

T (Total) kg/Year	MICE	Method Used			Facility Total Capacity m3 per hour
		Method Code	Designation or Description		
Total estimated methane generation (as per site record)	0.0				NA
Methane flared	0.0				0.0 (Total Flaring Capacity)
Methane utilised in engines	0.0				0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				NA

Transfer Destination	European Waste Code	Hazardous	Description of Waste	Waste Treatment Operation	Waste Treatment		Location of Treatment				
					NICE	Method Used					
											CHRISTENDON FERRYBA
											MUNSTER PROTENS
Within the Country	02 01 02	No	150.0 animal-tissue waste	R3	M	Weighted	Offsite in Ireland	LTD, P0046-02			WK WATERFORD, CO
											WATERFORD, Ireland
											430 Beech Road, Western
											IND EST Neas
											Road, Dublin, Dublin12, Irela
Within the Country	10 02 01	No	0.014 sharps except (10 02 02)	D15	E	Volume Calculation	Offsite in Ireland	SCR Limited, W0055-02			rd