

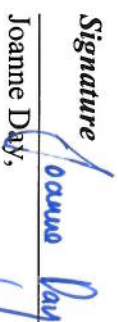
Declaration

The following Annual Environmental Report (AER) has been prepared by analysis of all monitoring data governed under IPPC Licence PO 175-01 for Queally Pig Slaughtering Ltd.

It has been prepared and reviewed with consultation of the Senior Management at Queally Pig Slaughtering Ltd.

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

Signature


Joanne Day,

Environmental/Quality Manager

Date

08.3.2012

1. Facility Information

Licence Register Number	PO 175-01
Name of site	Queally Pig Slaughtering t/a Dawn Pork and Bacon
Class of Activity	7.4.1 Operation of a slaughterhouse with a carcass production greater than 50 tonnes per day
RBME risk category	B3
National Grid Reference (6E, 6 N)	656853, 614430
Site Location	The facility at Grannagh is located on a site of approximately 30 acres on the main Waterford to Limerick Road, approximately 4 miles outside Waterford City. The River Suir is located to the east of the plant and runs into Waterford Harbour.
Site Description	<ul style="list-style-type: none"> ▪ Operations at Grannagh have the capacity to slaughter 10,000 pigs per week. ▪ In addition to slaughtering, there are facilities for cutting, boning, curing, chilling and freezing of pork and bacon products. ▪ Normal hours of production at the plant are 6.00am to 6.00pm, Monday to Friday. ▪ Cleaning operations, which are vital component of daily activity, continue until 11.00 p.m. ▪ The refrigeration plant operates continuously and controls the temperature of the chill rooms and the cold store. ▪ Groundwater is used as a water supply to the plant, with boreholes located off-site to the south east of the plant. ▪ The water is chlorinated, prior to on-site storage and use. ▪ The energy supply for the plant is derived from electricity, natural gas and oil combustion, with two hot water boilers and one heating boiler present on the site. ▪ Located onsite there is a waste water treatment plant operated as a activated sludge process.
Production	<ul style="list-style-type: none"> ▪ 447,660 pigs slaughtered in 2010 ▪ 489254 Pigs laughtner in 2011 ▪ 8.5% production increase in 2011.

2.0 Summary water emission data**2.1 Emission to water from EW 1**

Parameter	Licence ELV	ELV Kg/Year	Kg/Year 2010 discharge	Kg/Year 2011 discharge	%
pH	6-9	-	-	-	-
Temperature	25°C	-	-	-	-
COD	100mg/l	65,700	38,912	31,607	18.7% reduction
BOD	40mg/l	26,280	6,670	5,176	22.3% reduction
Suspended Solids	60mg/l	39,420	6,670	6,670	Remain same
Nitrates (as N)	20mg/l	13,140	1,806	916	49% reduction
Total Ammonia (as N)	10mg/l	6,570	1,589	1,649	3.6% Increase
Total Phosphorus (as P)	2mg/l	13,140	300	165	45% reduction
Orthophosphate (PO ₄ ³⁻)	1mg/l	657	305	499	38% Increase
Detergents	5mg/l	3,285	198	242	18% Increase
Oils, fats and Grease	15mg/l	9,855	711	1,832	61% Increase

COMMENT: Overall in 2011 Queally Pig Slaughtering Ltd, performed well in the reduction of potential pollutant discharges in the total emissions to water from the onsite WWTP. As part of O&T for 2012, we plan to reduce this again by 5% over 2011 total emissions. As can be seen from the table above we are also well within our licensed discharge limits. There is a continuous monitoring (as per IPPC Licence requirements) system in place for all discharge from WWTP to River Suir.

2.2 Emission to water from EW3

Parameter	Unit of measurement	Monitoring frequency	Average per month 2010	Average per month 2011	%
pH	-	Monthly	-	-	-
Conductivity	mS/cm	Continuous	-	-	-
COD	mg/L	Monthly	15	17.2	12% Increase
Suspended Solids	mg/L	Quarterly	8.5	3.25	61% Decrease
Total Ammonia (as N)	mg/L	Quarterly	0.57	0.52	8.7% Decrease
Oils, fats and Grease	mg/L	Quarterly	<1	<1	Remains same
Chloride	mg/L	Quarterly	41	29.7	27% Decrease
Visual Inspection	-	Daily	Clear	Clear	Remains same

COMMENT: Overall in 2011 surface water emission from EW3 remain similar to 2011, with some parameters decreasing in emission levels.

2.3 Groundwater monitoring

Parameter	Unit of measurement	Monitoring frequency	2010	2011
pH		Annual	7.12	7.09
TOC	ppb	Annual	254	1.53ppm
Nitrate	mg/L as N	Annual	6.06	7.04
Conductivity	uS/cm	Annual	797@19.9°C	759 @19.8°C
Orthophosphate	-	Annual	Not tested	Not tested
Total Ammonia	-	Annual	Not tested	Not tested
Total Nitrogen	-	Annual	Not tested	Not tested

COMMENT: All of the above limits comply with drinking water regulations and therefore there is No onsite contamination if ground water. In IPPC Licence PO 175-02 licensed parameters are specified and all of these will be analysed in 2012. Prior to this there were no specified parameters to be tested for groundwater, groundwater was analysed according to drinking water regulations.

3.0 Summary Waste Data

3.1 Waste removed off site for Recovery

Waste Category	EWC	Tonnage per year 2010	Tonnage per year 2011	% reduction/increase
Sludge	020204	5733	4919	14.2% reduction
ABP – Blood	020202	1760	1934.88	9.0% Increase
ABP – Cat 2	020202	1622.24	956.78	41% reduction
ABP – Pet food	020202	766	698.06	8.8% increase
ABP - Offal	020202	3108.10	3680.57	15.5% increase
Packaging and Landfill waste	200101	105.8	124.6	15% Increase
Lamps	200121	0.166	0.166	Remains the same
Oil	110113	1.000	1.700	58% increase

3.2 Waste removed off site for disposal

Waste Category	EWC	Tonnage per year 2010	Tonnage per year 2011	% reduction/increase
Lab Waste	160506	0.05	0.052	3.8% increase

COMMENT: More details on waste generated and removed from Queally Pig Slaughtering Ltd. Site can be found in our PTRR data for 2011. This has been submitted to the EPA as per requirements. Increase in waste production is due to increase production in 2011 over 2010. ABP waste is a by-product of production that is processed by contractors and it is a raw material in their process. It is not sent to landfill it is recycled. In 2012, waste oil will be significantly reduced see EMP 12.

4.0 Resource use and energy management

<u>Resource</u>	<u>Unit of measurement</u>	<u>Total 2010 usage</u>	<u>Total 2011 usage</u>	<u>% Increase/Reduction</u>
Electricity	Watts	5,245,500	5,103,360	2.7% reduction
Water	Gallons	54,117,852	45,418,210	16% Reduction
Gas	M ³	342,870.0	245,734.0	28% Reduction
Oil	Litres	191,688	193,799	1.2% Increase

5.0 Monitoring and compliance

<u>Monitoring parameter</u>	<u>Date</u>	<u>Outcome</u>	<u>Comment</u>
Unannounced EPA audit	23.03.2011	1 non-conformance	Non-conformance and observation closed out as of year end 2011.
External complaints	N/A	N/A	N/A

COMMENT: Overall in 2011 there was a reduction in energy usage onsite. This is attributed to efficient water, electricity and gas management. In 2012, with change of fuel source for the singer (EMP 12) there is a predicted 90% reduction in oil usage.


6.0 Environmental Management System

6.1 EMS Documentation


<u>Document</u>	<u>Present</u>	<u>Comment</u>
Onsite EMS	✓	<ul style="list-style-type: none"> ▪ Includes procedures and records ▪ Available for site inspections
Significant Environmental aspects and associated impacts	✓	<ul style="list-style-type: none"> ▪ Documented ▪ Available for site inspections ▪ Available for site inspections
Public viewing of records	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
Environmental Policy	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
Objectives and targets	✓	<ul style="list-style-type: none"> ▪ Available for site inspections ▪ Included in the following pages Objectives and Targets for 2011 and proposed for 2012. ▪ Available for site inspections
Environmental Management Program	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
Boiler efficiency report 2011	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
Daily/weekly/monthly monitoring results	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
External lab report for 2011 groundwater monitoring	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
Waste records	✓	<ul style="list-style-type: none"> ▪ Available for site inspections ▪ This includes waste contractor collection permits and waste licences. ▪ Available for site inspections
IPPC Licence Review PO 175-02 / 2011 documentation	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
Training records	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
Organisational structure	✓	<ul style="list-style-type: none"> ▪ Available for site inspections

6.2 2011 Objectives and Targets Status

DAWN FORK AND BACON ENVIRONMENTAL OBJECTIVES AND TARGETS 2011



 Issued by: Anne Marie Danaher



 Approved by: Joanne Day


DATE: 03/01/2012

DATE: 03/01/2012

REV: 05

REF: DERC 17

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DAWN FORK AND BACON

OBJECTIVE	EMP	Target	Completion date	Status	Responsibility	Indicator
Odour Management	EMP 07	Implement control measures for odour management Odour audit	ongoing	Complete	AMD J Day	Reports
Reduce contribution to global warming and help achieve Ireland GHG emission reduction.	EMP 08	To comply with condition 5.2 of IPPC License PO 175-01 and to inform haulage companies (indirect aspect) to be environmental aware. To comply with condition 4.4.6 Operational control ISO 14001:2004	Dec 11	Complete	AMD J Day	Documented report
	EMP 06	Financial investment Boiler efficiency testing	Sept 11	Complete	AMD MB	Report
	EMP 09	To comply with condition 2.6 IPPC license Po-175-01 To comply with condition 4.4.2 Competence training and awareness ISO 14001:2004	DEC 11	Complete	AMD Joanne Day	Records
Pollution Prevention	EMP 01	Comply with condition 6.2, 9.2.1, 9.1.4, 9.3, schedule (ii) and (i) IPPC license PO-175-01 To comply with condition 4.4.6 Operational control ISO 14001:2004	On-going	Complete	AMD	DERC 45
	EMP 02	Monthly quarterly surface water monitoring Waste water effluent inspection	On-going	Complete	AMD	Records
	EMP 03	Complete groundwater analysis	End Mar -11	Complete	AMD Sarah	Report
	EMP 04	Equipment calibration	On-going	Complete	AMD J Day	Record
Waste Management		To comply with condition 2.6 and schedule 2(iii) waste analysis IPPC license PO-175-01 To comply with condition 4.4.2 Competence training and awareness ISO 14001:2004				
	EMP 05	Waste sludge analysis	June 11/Dec 11	Complete	AMD Joanne Day/Ray Hayes	Report

6.3 2012 Objectives and Targets (Proposed)

DAWN PORK AND BACON ENVIRONMENTAL OBJECTIVES AND TARGETS 2012

Issued by: Anne-Marie Danaher

ADP/AMR

DATE: 06.02.2012

Approved by: Joanne Day

Joanne Day

DATE: 06.02.2012

REF: DEFC 17

REV: 07

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DAWN PORK AND BACON

OBJECTIVE	EMP	Target	Completion date	Status	Responsibility	Indicator
Pollution Prevention	EMP 01	Comply with condition 6.2, 9.2.1, 9.1.4, 9.3, schedule (6) and (6) IPPC license PO-175-01 To comply with condition 4.4.6 Operational control ISO 14001:2004 and to reduce effluent emissions on all licensed parameter by 5% over kg/year for 2011	DEC 12	On-going	AMD	Report
	EMP 02	Monthly quarterly surface water monitoring to ensure there is no onsite contamination	DEC 12	On-going	AMD	Report
	EMP 03	Waste water effluent inspection and adjustment of operational parameters to ensure optimum efficiency of WWTP	DEC 12	On-going	AMD	Report
	EMP 04	Complete groundwater analysis to ensure there is no onsite contamination to ground water	End Mar 11	Pending	AMD Sarah	Report
	EMP 05	Equipment calibration to ensure all WWTP parameters are monitored inline and accurately	DEC 12	On-going	AMD J Day	Report
	EMP 06	Implementation of IPPC License PO175-02 to comply with EC (Environmental Objectives) Surface water Regulations 2009	DEC 12	On-going	Senior Mgr AMD	Records Procedures
	EMP 07	Bands and tank integrity testing to ensure all bands and tanks are impervious and there is no contamination from these sources	Dec 2012	Pending	A Wall J Day	Report
	EMP 08	To comply with condition 5.2 of IPPC License PO 175-01. To comply with condition 4.4.6 Operational control ISO 14001:2004 and to reduce oil usage by 90% on 2011 figures				
	EMP 09	Financial Investment	DEC 12	On-going	J Day J Kelly	Visual
	EMP 10	Boiler efficiency testing to ensure optimum efficiency of boilers	DEC 12	Pending	A Wall J Day	Report
	Waste Management	EMP 12	Reduce the use of oil as a fuel source (90% reduction expected)	Quarter 1 2012	Complete	A Wall J Day
	EMP 05	To comply with condition 2.6 and schedule 2(6ii) waste analysis IPPC license PO-175-01 and to reduce oil disposal by 90% on 2011 figures				
	EMP 12	Waste sludge analysis, to ensure no waste is sent off site contaminated and to reduce amount of oil sent off site as waste (90% reduction expected)	June 12 Dec 12	Pending	AMD W Norris	Report
	EMP 12	Reduce amount of oil sent off site as waste (90% reduction expected)	On-going	On-going	A Wall J Day	Visual Records

DAWN PORK AND BACON ENVIRONMENTAL OBJECTIVES AND TARGETS 2012

Issued by: Anne-Marie Danaher


DATE: 06.02.2012

Approved by Joanne Day


DATE: 06.02.2012

REF: DERG 17

REV: 07

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OBJECTIVE	EMP	Target	Completion date	Status	Responsibility	Indicator
Create Environmental awareness	EMP-09	To comply with condition 2.6 IPPC license PO 175-01 To comply with condition 4.4.2 Competence training and awareness ISO 14001:2004	DEC 12	Ongoing	AMID Joanne Day	Record
Odour Management	EMP-07	Implement control measures for odour management	ongoing	ongoing	AMID J. Day/A. Wall	Record
Odour Management	EMP-13	Odour audit to monitor if any odours are generated from the process and eliminate them if they occur. To ensure that a review of noise sources is carried out in accordance with Condition 8.3 of IPPC Licence PO175-01.	May 2012	Pending	AMID J. Day	Report



Environmental Protection Agency

[PRTR# : P0175 | Facility Name : Queally Pig Slaughtering Limited | Filename : P0175_2011.xls | Return Year : 2011]

[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.13

REFERENCE YEAR	2011
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1. FACILITY IDENTIFICATION

Parent Company Name	Queally Pig Slaughtering Limited
Facility Name	Queally Pig Slaughtering Limited
PRTR Identification Number	P0175
Licence Number	P0175-01

Waste or IPPC Classes of Activity

No.	class_name
7.4.1	The operation of slaughterhouses with a carcass production capacity greater than 50 tonnes per day

Address 1	Grannagh
Address 2	Co. Kilkenny
Address 3	
Address 4	
	Waterford
Country	Ireland
Coordinates of Location	-7.16672 52.2776
River Basin District	IESE
NACE Code	1011
Main Economic Activity	Processing and preserving of meat
AER Returns Contact Name	Anne-Marie Danaher
AER Returns Contact Email Address	amdanaher@dawnpork.com
AER Returns Contact Position	Environmental Technician
AER Returns Contact Telephone Number	051870210
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	0
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
8(a)	Slaughterhouses

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 ?	

4.2 RELEASES TO WATERS [Link to previous years emissions data](#)

Project: P0175 | Facility Name: Queally Pig Slaughtering Limited | Filename: P0175_2011.xls | Return Year: 2011 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

No. Annex II	POLLUTANT Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	QUANTITY		
			Method Code	Designation or Description			A (Accidental) KG/Year	F (Fugitive) KG/Year	F (Fugitive) KG/Year
					0.0	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

No. Annex II	POLLUTANT Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	QUANTITY		
			Method Code	Designation or Description			A (Accidental) KG/Year	F (Fugitive) KG/Year	F (Fugitive) KG/Year
					0.0	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 No	POLLUTANT Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	QUANTITY		
			Method Code	Designation or Description			A (Accidental) KG/Year	F (Fugitive) KG/Year	F (Fugitive) KG/Year
238	Ammonia (as N)	M	OTH	using DR2800 spectrophotometer	1649.0	1649.0	0.0	0.0	0.0
303	BOD	M	OTH	5 day BOD with ATU Reactor digestion method using DR2800 spectrophotometer	5176.0	5176.0	0.0	0.0	0.0
305	COD	M	OTH	Soxhlet Extract Cadmium reduction method using DR2800 spectrophotometer	31607.0	31607.0	0.0	0.0	0.0
314	Fats, Oils and Greases	M	OTH		1832.0	1832.0	0.0	0.0	0.0
327	Nitrate (as N)	M	OTH	PhosVer3 Powder pillow method using DR 2800 spectrophotometer	916.0	916.0	0.0	0.0	0.0
332	Ortho-phosphate (as PO4)	M	OTH		499.0	0.0	0.0	0.0	0.0
240	Suspended Solids	M	OTH	Filtration method	6670.0	6670.0	0.0	0.0	0.0
308	Deltergents (as MPAS)	M	OTH	Colorimetric	242.0	242.0	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

10

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 Recv Destination Facility Haz.Waste Name and Licence/Permit No of Recover/Disposer	Haz.Waste - Address of Recv 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 Recoverer / Disposal Site) (HAZARDOUS WASTE ONLY)
						M/CE	Method Used					
Within the Country	02 02 02	No	956.78	Animal tissue waste CAT 2	R3	M	Weighted	Offsite in Ireland	Dublin By-products Ltd, R910 Premier Proteins, ID3 Dawn Country Meats 1/a Western Proteins, POC48 - 02	Dunlavin, 0.0, Wicklow, Ireland Cahir, 0.0, Tipperary, Ireland Hazel Hill, Ballynannis, Mayo, 0, Ireland		
Within the Country	02 02 02	No	698.06	Animal Tissue waste Lungs and Liver	R3	M	Weighted	Offsite in Ireland				
Within the Country	02 02 02	No	3680.57	Animal Tissue waste Offal	R3	M	Weighted	Offsite in Ireland				
To Other Countries	11 01 13	Yes	193.799	degreasing wastes containing dangerous substances	R13	M	Weighted	Abroad	Satel Kleen Ireland, WCP-DC-09-1223-01 Waste Licence W0099-1	Unit 5, Ailtron Road, Tallaght, Dublin, Ireland	Solvent Resource Management Ltd, TP334SF, Weeland road, Knottingly, West Yorkshire, 0, United Kingdom Sava GmbH and Co. KG A51G00508, Osterweute 1, 25541, Brunsbuttle, 0, Germ any	Weeland road, Knottingly, West Yorkshire, 0, United Kingdom Osterweute 1, 25541, Brunsbuttle, 0, Germ any
To Other Countries	16 05 06	Yes	0.052	laboratory/chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	D10	M	Weighted	Abroad	Veolia Ltd, WCP-ck-08-0578-01 Waste Licence W0080-02	Corn, Fermoy, 0, Cork, Ireland Six cross roads, Carriganard, Butlerstown, Waterford, Ireland		
To Other Countries	20 01 01	No	124.6	Packaging waste and landfill waste	R5	M	Weighted	Abroad	GreenStar Ltd, WCP W0116-02	Irish lamp recycling, WCP/ck/030(a)05 waste permit 022000 Agrifile Ltd, WCP/ck/317(a)08		
To Other Countries	20 01 21	Yes	0.116	fluorescent tubes and other mercury-containing waste	R5	M	Weighted	Abroad				
Within the Country	02 02 04	No	4919.0	sludges from on-site effluent treatment	R10	M	Weighted	Offsite in Ireland				
To Other Countries	02 02 02	No	1934.88	animal-tissue waste blood	R3	M	Weighted	Abroad	APC Technologies, DAFF AB BT66	Estale, Crahanon, 0, Armagh		

Subject to the following conditions: The completion of this return does not constitute an admission of liability for the above information.