

Annual Environmental Report 2009

McCarren & Co. Ltd.

Farnham Road

Cavan

Licence Register Number PO171-01

Table of Contents

1. Introduction

2. Report Structure

2.1 Introduction

2.2 Summary Information

2.3 Management of the Activity

3. Summery Information

3.1 Self Monitoring Data

3.2 Agency Monitoring and Enforcement

3.3 Energy and Water Consumption

3.4 Environmental Incidents and Complaints

3.5 Submission of Summary Information

4. Management of the Activity

4.1 Introduction

4.2 Schedule of Environmental Objectives and Targets

4.3 Environmental Management Programme (EMP) Report

4.4 Environmental Management Programme (EMP)

4.5 Pollution Emission Register (PER)

5. Licence Specific Reports

1. Introduction

McCarren & Company is a family owned enterprise involved in the slaughter and processing of pork, bacon and ham products. The company is located on the outskirts of Cavan on the Killeshandra road. The company holds an IPPC licence Register Number PO- 171-01. The company has established and maintains an Environmental Management System (EMS) to fulfil the requirements of this licence. The EMS assesses all operations and reviews all options of BATNEEC to use cleaner technology and reduce waste output and energy consumption. This report assesses the performance of the EMS for 2009.

Signed _____

Kathryn Reilly

QA Manager

McCarren & Co. Ltd.


08/03/2010

2. Annual Environmental Report

2.1 Introduction

2.1 Licence Register Number: PO-171-01
Company Name: McCarren & Co. Ltd
Address: Farnham Road Cavan Co. Cavan

- **Activities on-site:** Pork Processors. Activities on site involve the slaughter and cutting up of pork as well as curing and ham cooking activities

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“McCarren & Co. Limited” is committed to:

- Caring for the environment and the prevention of pollution.
- Operating the business to the environmental systems required by our EPA Licence No 171.
- Abiding by all relevant environmental legislation and applicable requirements.
- Minimising waste, promoting recycling, reducing energy and raw material consumption and reducing harmful emissions.
- Working with suppliers to promote positive environmental actions.
- Continually improving our environmental performance by setting objective, actions and targets.
- Communicating our policy within our organisation /contractors and to the public.

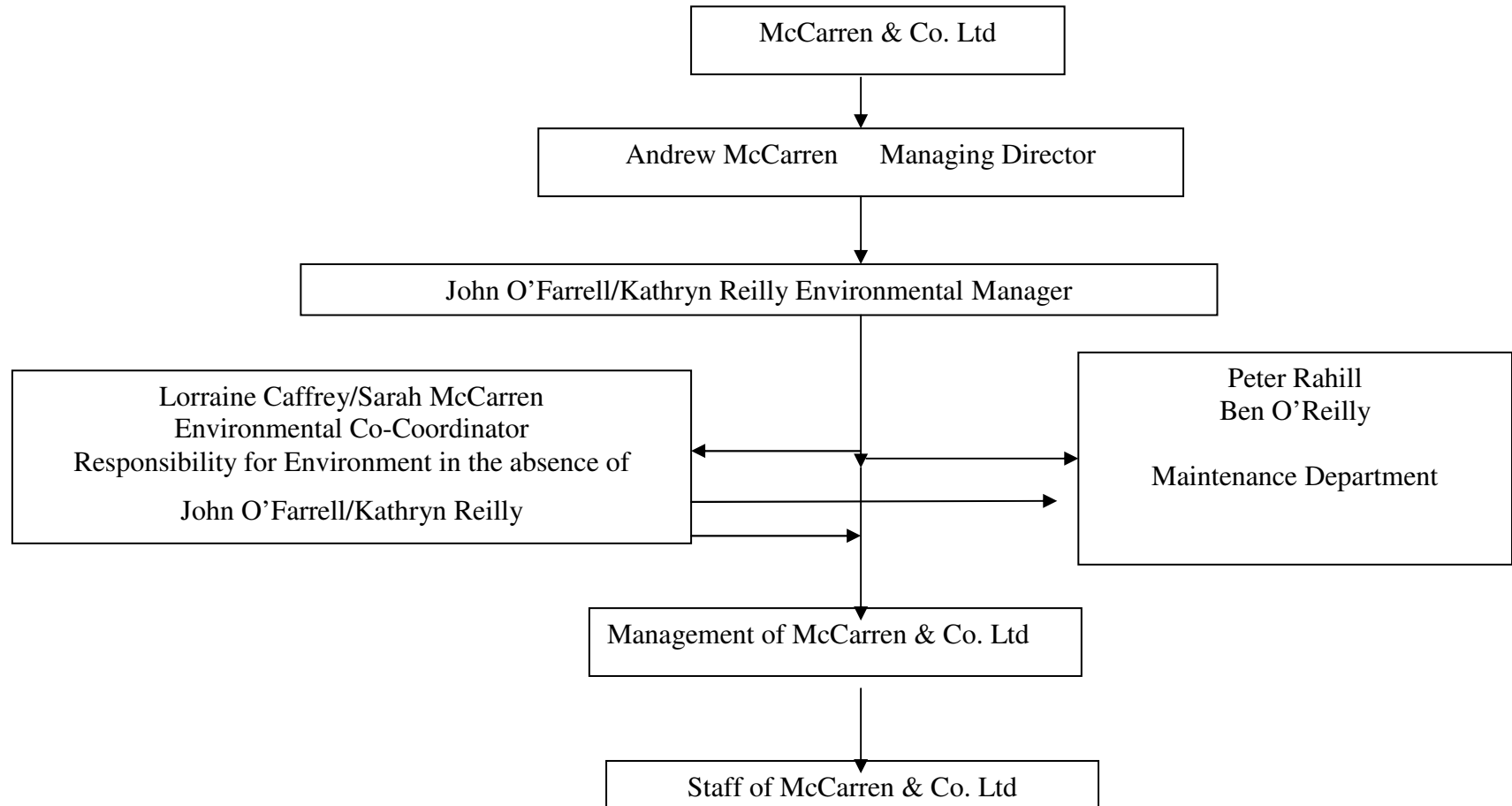
Everyone is responsible for the environmental aspects of the company and for reducing their impact.

25th June 2010
Andrew McCarren (Managing Director)

- **Environmental Management Organisational Chart**

Company Organisational Chart for Environmental Management

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2.2 Summary Information

Summary data has been submitted in electronic format.

3 Summary Information

Period commencing 01/01/2009 to 31/12/2009

3.1 Self monitoring data

3.1.1 Emissions to Sewers

Parameter	Mass Emissions (kg) 2009	Mass Emissions (kg) 2008	Licensed Mass Emissions (kg)
Volume (m ³)	37599	37660	255,500
pH (average)	6 - 8	7.2	6-9
BOD	0.21219	0.114	0.365
COD	0.38828	0.13518	N/A
Suspended solids	0.11777	0.12540	0.182
Oils, fats and greases	0.01459	0.0058	0.0365

Table 3.1.1.1: Summary Table for Emissions to Sewer

- 240165 pigs were killed in 2008 compared to 198579 pigs killed in 2009, a decrease of 17.3%.

Summery of non-compliances with IPC licence

Date	Emission	Parameter	Value	Cause	CA

3.1.2 Emissions to Atmosphere

Emissions to Atmosphere do not apply to this licence.

3.1.3 Waste Management

Details of Waste Contractors Used 2009

Type of Waste	Transporter of Waste	Destination of Waste	Contractor Name & Address	Contact
Dilute Pig Slurry	Gordon Rodgers	Kilbride, Athboy Co. Meath	Gordon Rodgers Lisnalea Baileboro Co. Cavan	Gordon Rodgers
Domestic Waste	Allied Waste Disposal	Cavan Landfill Corranure County Cavan	Clonmellon Ind Est Clonmellon Navan Co. Meath	Timmy
Waste Oil	Atlas Oil	Clonminam Ind. Est Portlaois Laois	Clonminam Ind. Est Portlaois Laois	ENVA
Organic Waste	College Proteins	Rendering	College Proteins, Nobber Co. Meath	Ita Brady
Cardboard/Plastic	Allied Waste Disposal	Cavan Landfill Corranure County Cavan		Gary O'Neill
Blood	Regal Processors	APC Technologies Ltd 2 Silverwood Ind Craigavon Co. Armagh	APC Technologies Ltd 2 Silverwood Ind Craigavon Co. Armagh BT66 6LN	Simon
Diffusers	Irish Lamp Recycling	Athy, Co. Meath	Athy, Co. Meath	Brendan

Table showing Comparison of Waste Quantities 2009 /2008 for McCarren & Co. Ltd.

Waste	2009	2008
Offal	1131.42	4350.12
Blood	588.04	935.08
Domestic	58.45	60.34

- Figures for blood and offal disposed of has decreased due to the fact we are dewatering our stomach waste and also Irish Casings are producing products using our green offal i.e. stomachs, intestines, bladders and rectums. The blood decrease is due to a reduced number of pigs from the previous year.
- Domestic waste disposal is still decreasing slowly. This is most likely due to the introduction of a recycling initiative in September 2008.

3.2 Agency Monitoring and Enforcement

3.2.1 Introduction

The responsibility for compliance lies with McCarren and Co. Ltd. Agency monitoring takes the form of

- Emissions sampling and analysis by the agency laboratory staff
- Site visits and inspections carried out by an Agency Inspector
- Detailed audit of facility carried out by agency personnel

Site inspection and audit was carried out by the agency on 30/04/2009 (Mr. Liam O Suilleabhain)

Ref: (P0171-01)09SI11LOS

The non compliances were due to

1. Nutrient Management Plan
2. Materials Storage and Handling
3. 2008 Annual Environmental Report

Inspection Findings

1. Nutrient Management Plan

A contractor was being engaged by the licensee to remove, store and landspread organic material (Lairage waste) on designated lands. However, the licensee failed to submit a NMP to the Agency since 2004.

A nutrient management plan has since been submitted to the agency detailing all removal, storage and landspreading of organic material.

2. Materials Storage and Handling

During the course of the site tour, it was noted that various types of containers, containing liquids other than water, were being stored in unbunded areas at a number of location on-site, particularly, the refrigeration plant room and workshop.

All containers containing liquids other than water are now stored in banded facilities.

3. 2008 Annual Environmental Report

The above report, due on 31/03/2009, has not been submitted to date. The licensee has in the recent past repeatedly failed this report to the Agency in a timely manner.

This report has since been submitted.

Inspection Observations

1. Report on Monitoring of Emissions to Sewer, Quarter 1 2009

The above report, due on 14/4/2009, has not been submitted to date.

This report has since been submitted.

2. Effluent Monitoring Schedule

Possible alterations to the monitoring frequency and testing required was discussed. It was agreed that certain amendments to the existing programme was desirable, However, as the agreement of the sanitary authority is also required, this matter shall be address under separate cover.

This is still under discussion and we are in the process of contacting Cavan County Council with details and yourselves in relation to this.

3. Storage of effluent samples

It was noted that daily effluent samples are not being refrigerated while stored overnight, awaiting shipment to the external laboratory for analysis.

The effluent sample taken is now stored in a fridge in our on-site laboratory.

4. Off-site storage

The Agency issued a circular letter to all licensee in the sector on 11/03/2008 regarding the regulation of off-site facilities. A response from the licensee has not been received to date.

The off-site storage issue has now been replied to and all details given to the agency.

3.3 Energy and Water Consumption

- Energy consumption is steadily decreasing since 2008.
- Savings were made in consumption due to increased energy awareness within the company. Andrew McCarren (MD) is still very much committed to reducing the consumption of energy. Budgets are allocated to each department and Key Performance Indicators are ongoing which show usage of general energy consumption throughout the factory. These are discussed on a weekly basis.
- Our Electricity consumption is still at a decreased level on-site due to better management of equipment in the plant and working with the E.S.B. on reducing the maximum demand capacity. This has led to considerable savings in the company.

3.3.2 Water Consumption

On-site Ground water	2009	2008
On-site surface water	N/A	N/A
Municipal supply	N/A	N/A

Table 3.3.2 Water Consumption summery

No municipal supply water was used in 2009.

3.4 Environmental Incidents and Complaints

3.4.1

- Emergency situations
- Equipment malfunctions
- Complaints

3.4.2 Environmental Incidents

- Any emission which does not comply with terms of the licence
- Malfunction or breakdown of control equipment or monitoring equipment
- Any incident with the potential for environmental contamination of surface water or posing an environmental threat to air or land or requiring an emergency response by the Local Authority

Date	Complainer	non- compliance	cause	corrective action
05/01/09	Fisheries Board	Oil Spillage	Hose Decoupling	Installation of Oil Interceptor
30/03/09	Fisheries Board	Animal Tissue in River	Spillage from our gut house	Visual Inspection of River Daily

Table 3.4.2 Environmental Incidents

3.4.3 Complaints

- Number of complaints reported to the agency

Number	Odour	Noise	Water	Procedural	Miscellaneous	Total
						0

Table 3.4.3 Summery of complaints

• Conclusions

McCarren & Company were satisfied that there were no in complaints in 2009. The incidents above we were not aware of at the time but the Northern Regional Fisheries Board brought both incidences to our attention at the time and we reacted to them as you can see above in table 3.4.2 Environmental Incidences.

3.5 Submission of Summery Information

AER Summery Data Table

Submitted electronically

4. Management of the Activity

4.1 Best Available Techniques (BAT) to be in place by 2010

4.2 Schedule of Environmental Objectives and Targets

4.3 Environmental Management Programme (EMP) Report

4.3.1 Introduction

4.3.2 Content

Implementation of each project proposed in 2010

- Stated target
- Achievement versus target
- Difficulties encountered / reasons for failure
- Corrective actions implemented

Report on Environmental Management Programme for McCarren & Co. Ltd 2010-2015

Target 1:

➤ *Stated target*

The rational of this target is to reduce amount of offal for rendering and enable reuse of organic material using new technologies.

➤ *Achievement versus target*

Andrew McCarren (MD) has greatly reduced the amount of offal that is sent for rendering by putting in the new systems:

- 1) Irish Casings Gut House
- 2) Dewatering System for stomach contents and manure
- 3) New Blood Facility

➤ *Difficulties encountered / reasons for failure*

A lot of information is available to be investigated but there is an absence of “success stories”. The investigation can be very time consuming and little results have been achieved as yet. The dried stomach contents and manure are going for rendering as a Category 1 waste due to the fact that McCarren & Co. Ltd would have to set up a proper facility and obtain a licence to produce compost or energy from this product.

➤ *Corrective actions implemented*

McCarren and Co. are committed to investigating all potential technologies available and keeping up to date with research and development at all times.

4.4 Environmental Management Programme

4.4.1 Introduction

The continued impetus of the EMP for 2010 and for the 5 year program is the two goals of waste reduction and energy conservation. The company is confident of achieving success in this area in 2010 and for the next 5 years.

4.4.2 Content

- Rationale for undertaking a specific project
- Targets to be achieved
- Programme for achieving these targets
- Designation of responsibility
- Time frame

Environmental Management Programme for McCarren & Co. Ltd 2009

Target 1: Reduction in energy usage

- Rationale for undertaking a project:

To decrease costs and minimise adverse effects on the environment.

Programme for achieving these targets

Budgets in place for all areas (production) and Key Performance Indicators in place for energy usage throughout factory.

.Designation of responsibility

Andrew McCarren (MD)

Ruth Loughrey (Financial Controller)

- Time frame

.Introduce by the end of 2010

Target 2: Recycling

- Rationale for undertaking a project:

To decrease the volume of waste in the compactor going for landfill.

- Programme for achieving these targets

Recycling bins in place and facility to recycle and compact cardboard.

- Designation of responsibility

Environmental Manager

- Time frame

Full statistics by end of 2010 – Already a decrease of domestic waste in 2009 compared to 2008.

Target 3: Research and Development

- Rationale for undertaking a project:

To continue to increase awareness within the company of best practices investigate means of waste minimisation and energy efficiency.

- Programme for achieving these targets

Andrew McCarren (MD) is looking at the possibility of creating energy from the dewatered stomach contents/manure.

- Designation of responsibility

Andrew McCarren (MD)

- Time frame

Prepare a findings report by the end of 2010.

Environmental Management Programme for McCarren & Co. Ltd 2008-2013

Target 1: Implement programme for preventative maintenance to increase efficiency and reduce costs.

- Rationale for undertaking a project:

To increase cost efficiency and reduce potential for environmental incidents.

- Programme for achieving these targets

A preventative maintenance schedule to be set up by the end of 2009, this is now completed and on been used on a regular basis. All equipment impacting on the EMS to be placed on the preventative schedule by end of 2009, this is now completed and all equipment relating to our licence is scheduled in for maintenance on a regular basis.

Designation of responsibility

Environmental Manager Kathryn Reilly and Sarah McCarren

- Time frame

All machinery on environmental monitoring to be maintained according to the maintenance preventative schedule by the end of 2009 and this is completed. Assessment of the impact of the PMS to be carried out by Dec 2008. This has occurred and each area has been allocated a budget in relation to spend and has brought the spend of the company down significantly. Budgets are at the moment under review due to the current financial climate.

Target 2: Investigate reduction in offal waste by removal of black gut without having an adverse impact on the local area.

- Rationale for undertaking a project:

To reduce amount of offal for rendering and enable reuse of organic material using new technologies.

- Programme for achieving these targets

Research and Development Co-Coordinator to report to Environmental Committee on available options by the end of 2008. This has now been achieved and is up and running and has reduced costs of offal waste over the last 1 ½ years immensely.

- Designation of responsibility

Andrew McCarren (MD)

- Time frame

Significant reduction in offal production to be achieved by end of 2009 - This has occurred as there is a new dewatering system which dries the black gut and slurry contents and has reduced our waste in relation to slurry spreading.

4.4.3 Assessment of EMP

The EMP 2009 and 2008-2013 is achievable for McCarren & Co. Ltd. The Environmental Management Programme 2008 succeeded in reducing energy consumption and more reductions should be achieved in 2009/10. The company is committed to using BATNEEC technology to achieve substantial saving in energy costs and reduction in wastes produced. The focus in 2009/10 has to be to implement low cost initiatives to reduce domestic waste and increase recycling. The introduction of a new position within the company for Research and Development can only lead to increased improvement of the EMP.

4.5 Pollution Emission Register (PER)

PER does not apply to the operation of McCarren & Co. Ltd.

4.5.1 Introduction

4.5.2 Content

4.5.3 Report

5. Licence Specific Reports

- Noise Survey has previously been forwarded to the agency.
- Bund Integrity Testing

Bund Integrity Testing Review 2009.

- All bunded units on site have had integrity testing carried out now including the salt silo in the yard which was bunded in 2009.