DAWN MEATS (EXPORTS)

Grannagh, Waterford
IPPC Licence Reg No. P0179-01

Annual Environmental Report 2010

(Covering 2010 Monitoring Period)

March 2011

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1.0 Introduction

This document is the eleventh Annual Environmental Report (AER) covering environmental performance at the Dawn Meats (Exports), Grannagh facility.

This report updates the information contained in the last AER to the end of December 2010 and summarises all data for the 2010 monitoring period and makes comparisons with year 2009 results.
This document updates the following sections of the monitoring period 2010 AER:

Section 2.0 Schedule of Objectives & Targets
Section 3.0 Environmental Management Programme – Status Report
Section 4.0 Emissions to Water Summary
Section 5.0 Surface Water Monitoring Summary
Section 6.0 Groundwater Monitoring Summary
Section 7.0 Waste Management Summary
Section 8.0 Resource Consumption Summary
Section 9.0 Complaints Summary
Section 10.0 Reported Incidents Summary

As in the past, a brief summary of the main achievements of the Environmental Management Plan is included as Section 3.0.

1.1 Licence Details

Licensee: Dawn Meats (Exports)

Location of Activity: Grannagh, Waterford

IPPC Licence Register No.: P0179-01

1.2 Summary Data Table

Current IPPC Licence annual reporting requires the submission of summary monitoring, resource use, complaints and waste management information in the form of a spreadsheet, which is transmitted to the Agency electronically. A print out of this summary data spreadsheet is included as Attachment B to this AER. The spreadsheet has been submitted electronically to the EPA at http://aer.epa.ie/prtr

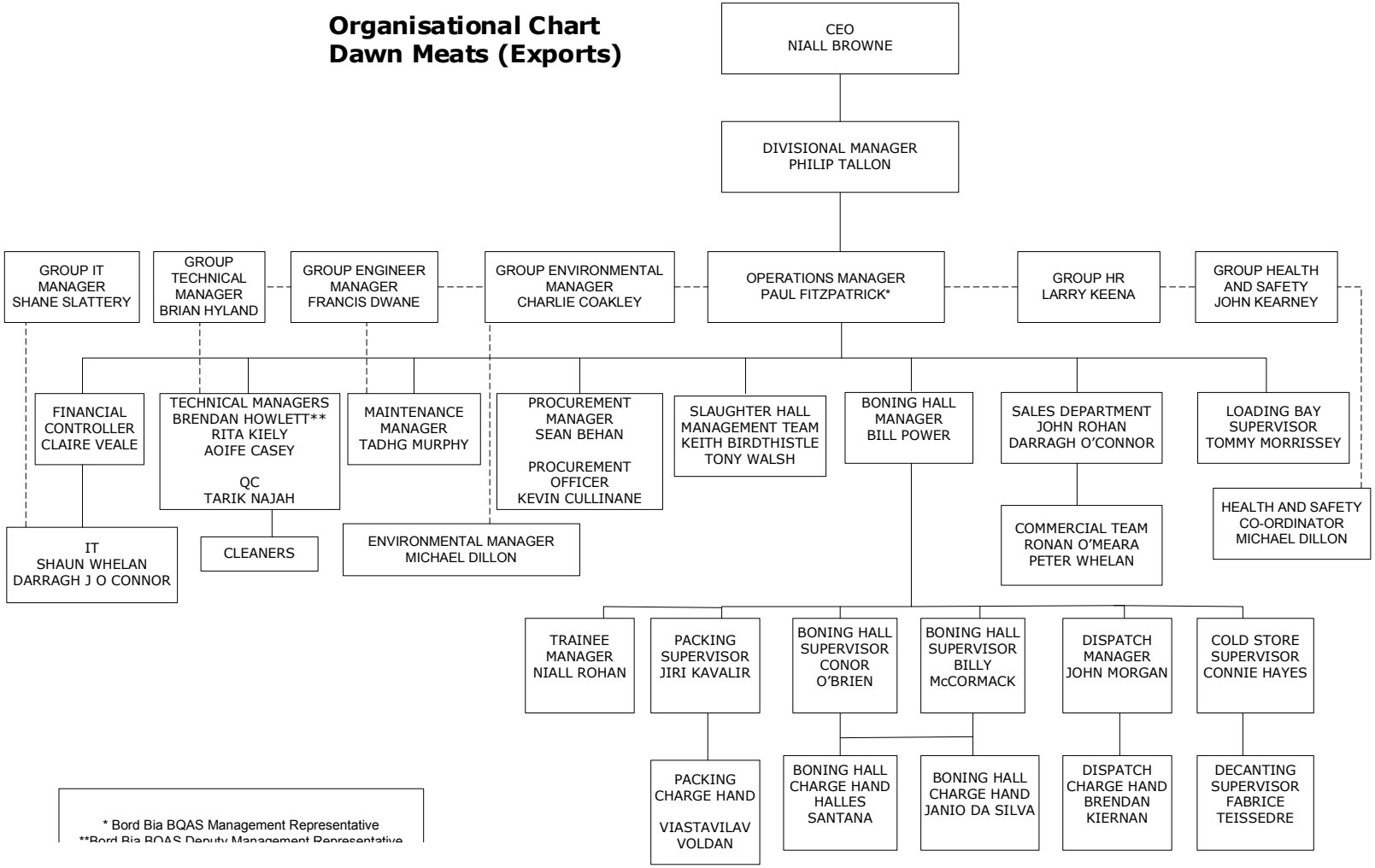
1.3 Company Profile

Dawn Meats (Exports) are involved in the slaughtering of cattle for supply to Irish and export markets. The site is owned by the Dawn Group who has their headquarters located at the site. The company was established in 1980 and the Grannagh site was acquired in 1985. The slaughter plant has been continuously upgraded and modified to a modern and efficient plant with a capacity of approximately 90,000 head of cattle per annum. The plant size is 80,000 square feet and comprises of lairage, slaughter-hall, loading bay and boning hall. Service utilities include the boilers and refrigeration units together with process water and a wastewater treatment plant which is shared with Queally Pig Slaughtering Ltd. (t/a Dawn Pork and Bacon IPPCL P0175-01). The

primary environmental emissions at the plant relate to the discharge of treated wastewater and the generation of organic waste as sludge, which is land spread. The environmental performance of the facility is regulated under an IPPC licence (Reg. No. 179-01). Environmental management at the site, including compliance with the IPPC licence, is achieved through a structured Environmental Management System (EMS).

An organogram illustrating the company management structure can be seen Below; figure 1.

Figure 1.


Organisational Chart
Dawn Meats (Exports)
CEO
NIALL BROWNE
DIVISIONAL MANAGER
PHILIP TALLON
GROUP IT MANAGER
SHANE SLATTERY
GROUP TECHNICAL MANAGER
BRIAN HYLAND
GROUP ENGINEER MANAGER
FRANCIS DWANE
GROUP ENVIRONMENTAL MANAGER
CHARLIE COAKLEY
OPERATIONS MANAGER
PAUL FITZPATRICK*
GROUP HR
LARRY KEENA
GROUP HEALTH AND SAFETY
JOHN KEARNEY
FINANCIAL CONTROLLER
CLAIRE VEALE
TECHNICAL MANAGERS
BRENDAN HOWLETT**
RITA KIELY
AOIFE CASEY
QC
TARIK NAJAH
MAINTENANCE MANAGER
TADHG MURPHY
PROCUREMENT MANAGER
SEAN BEHAN
PROCUREMENT OFFICER
KEVIN CULLINANE
SLAUGHTER HALL MANAGEMENT TEAM
KEITH BIRDTHISTLE
TONY WALSH
BONING HALL MANAGER
BILL POWER
SALES DEPARTMENT
JOHN ROHAN
DARRAGH O'CONNOR
LOADING BAY SUPERVISOR
TOMMY MORRISSEY
IT
SHAUN WHELAN
DARRAGH J O CONNOR
CLEANERS
ENVIRONMENTAL MANAGER
MICHAEL DILLON
COMMERCIAL TEAM
RONAN O'MEARA
PETER WHELAN
HEALTH AND SAFETY CO-ORDINATOR
MICHAEL DILLON
TRAINEE MANAGER
NIALL ROHAN
PACKING SUPERVISOR
JIRI KAVALIR
BONING HALL SUPERVISOR
CONOR O'BRIEN
BONING HALL SUPERVISOR
BILLY McCORMACK
DISPATCH MANAGER
JOHN MORGAN
COLD STORE SUPERVISOR
CONNIE HAYES
PACKING CHARGE HAND
VIASTAVILAV VOLDAN
BONING HALL CHARGE HAND
HALLES SANTANA
BONING HALL CHARGE HAND
JANIO DA SILVA
DISPATCH CHARGE HAND
BRENDAN KIERNAN
DECANTING SUPERVISOR
FABRICE TEISSEDRE
* Bord Bia BQAS Management Representative
**Bord Bia BQAS Deputy Management Representative

2.0 Schedule of Objectives and Targets 2010 and 2011 Plans.

This section includes (2.1) progress achieved in meeting deadlines set for the 11 objectives and targets from the 2010 Schedule. The Environmental Management Programme and Objectives and Targets are outlined in section 3.0.

2.1 - Objectives and Targets 2010 Progress Report

EMP 01 – Underground Pipeline Testing.

- Completed. Due to be completed again in 2012.

EMP 02 – Bund Integrity Testing.

- Completed. Due for completion again in 2012.

EMP 03 – Hydraulic Loading Reduction.

- Ongoing monitoring of water usage across the site to reduce loading on the WWTP.

EMP 04 – Reduction on Biological Loading on the WWTP.

- Anaerobic Digestion investigation is ongoing

EMP 05 – Segregation of plastic/aluminium materials for recycling.

- Completed and continuing on an ongoing basis to assess is further reduction possible

EMP 06 – Waste Management.

- Waste Management Practices ongoing to reduce waste on site.

EMP 07 – Landfill Management.

- Minimisation of waste and recycling practices ongoing to reduce refuse loadings to landfill

EMP 08 – Treatment of organic waste.

- Anaerobic digestion investigation ongoing.

EMP 09 – Develop new Landbanks.

- This project is ongoing. New Landbanks have been located as per NMP.

EMP 13 – Reduce Energy usage.

- Various projects have being completed to help us reduce our carbon footprint and reduce our energy usage.

EMP 17 – Reduce water usage.

- This is an ongoing project and is being monitored weekly.

Comment:

The management status review of Objectives and Targets for 2010 came to the conclusion that significant progress was made across most of the objectives and further progress would be best achieved through extending the lifetime of each. Objectives for 2011 follow in the next section. As was the case last year, most of these objectives and targets have been proceduralised and so their status will remain *ongoing*.

3.0 Environmental Management Programme and objectives and targets – Summary

Dawn Meats (Exports), Environmental Management Programme and Objectives and Targets are committed to ensuring a significant effort and more attention is paid to improvements in efficiency at the plant, in terms of energy consumption, water use and waste generation. The focus of the 2011 EMP will be largely in these areas, using the EMP as a management tool for planning and tracking the implementation of projects on site which lead to the overall achievement of the Dawn Group Environmental Policy, while ensuring compliance with the IPPC license remains a high priority.

A number of long-term on-going programmes initiated at the site will continue on an on-going basis to ensure compliance with the conditions of the IPPC licence and the site environmental management system.

The progress and plans for the future in meeting these objectives and targets are summarised below.

Table 3.1 Lists of Projects in EMP

Objective	Project	Responsibility	Status
Prevention of pollution	• Bund testing • Pipeline Testing	MD MD	Ongoing Ongoing
Waste Management	• Assess new technologies • Minimisation of waste	MD MD	Ongoing Ongoing
Legislative Compliance	• Internal audits • Legislation updates • Supplier awareness • Waste compliance	MD MD MD MD	Ongoing Ongoing Ongoing Ongoing
Reduction in carbon footprint	• Energy efficiency	MD	Ongoing
Conservation of natural resources	• Recycling plan	MD	Ongoing
Promotion of environmental awareness	• Staff training	MD	Ongoing

4.0 Emissions to Water Summary

Environmental monitoring data for the monitoring period January to December 2010 are summarised in the following sections. Data from the 2010 monitoring period, in accordance with EPA notification M179/gc07pg.doc dated 08/04/02 is in Appendix 4.

The raw effluent (comprising screened lairage slurry excess water, slaughter and other process waters and internal cleaning waters) flows by gravity to the Waste Water Treatment Plant at Queally Pig Slaughtering Ltd. (t/a Dawn Pork and Bacon IPPCL P0175-01). Here it is pumped through the initial rotary screen to the rest of the WWTP comprising of an activated sludge system. Treated wastewater is discharged directly into the River Suir from a discharge pipe.

Emissions to water are regulated under Condition 6.2 and Schedule 1 of the IPPCL as follows:

Table 4.1 Process Effluent Emissions – (ELV's)

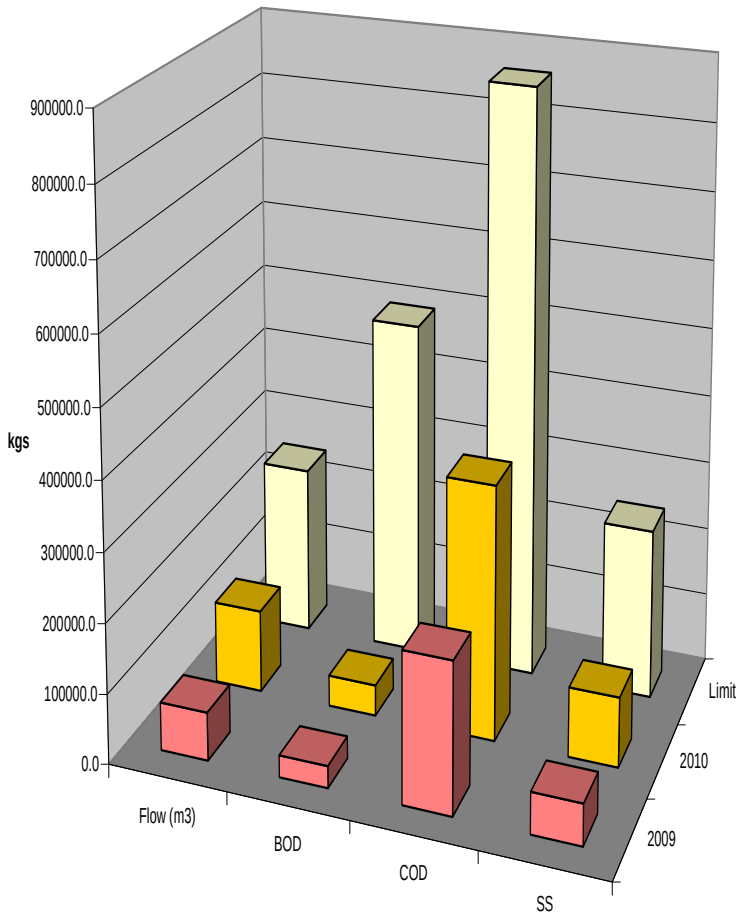
Emission Point Reference No.:	EW-1 (Pump Sump)	
Name of Receiving Waters:	Dawn Pork & Bacon Waste Water Treatment Plant	
Location:	Boundary of site as per figure 9.6 of IPPCL application.	
Volume to be emitted: Maximum in any one day: Maximum rate per hour:	 675 m^3 42 m^3	
Parameter	**Emission Limit Value (Concentration)**	**Daily Mass Emission Limit Value (kg)**
PH	6-8.5	(6-8.5)
Temperature	42°C	(42°C)
BOD (mg/l)	4000	1350
COD (mg/l)	7000	2362.5
Suspended Solids (mg/l)	2000	675
Nitrates (as N) (mg/l)	150	67.5
Total Ammonia (as N) mg/l	150	67.5
Total Phosphorus (as P) (mg/l)	200	47.25
Detergents (mg/l)	20	13.5
Oils, Fats and Grease (mg/l)	150	101.25

Table 4.2 Summary Mass Emission Data EW-1

Parameter	Mass Emission 2009 (kgs)	Mass Emission 2010 (kgs)	Permitted Mass Emission (kgs)
Flow (m^3)	69,075.0	119,544	246,375 m^3
BOD	31,162.8	44,851.6	492,750
COD	214,820.9	366,732.2	862,313
Suspended Solids	58,557.5	100,178.9	246,375
Nitrates (as N)	800.1	469.64	24,638
Total Ammonia (as N)	1,126.3	2,123.1	24,638
Total Phosphorus (as P)	535.6	1,160.6	17,246
Detergents	95.6	110.1	4,928
Oils, Fats & Greases	403.4	981.95	36,956

** Permitted mass emissions based on discharges at ELV and maximum daily flow*

Figure 2a Process effluent mass emissions 2009 v 2008



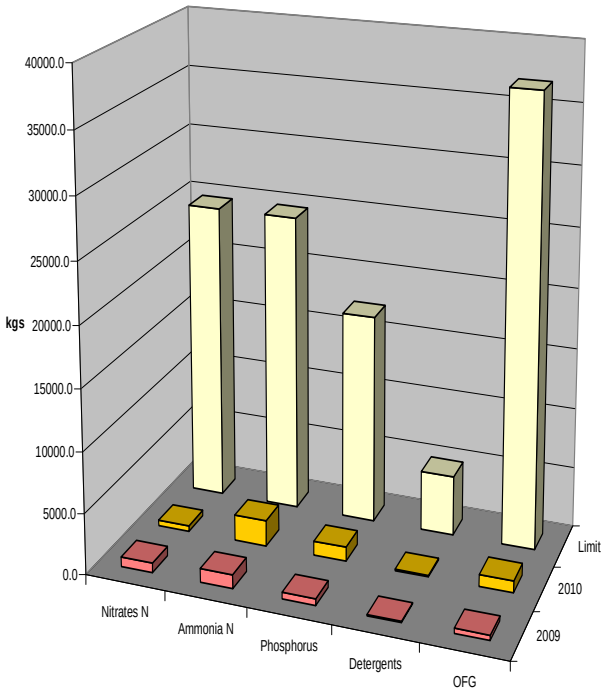


Figure 2b Process effluent mass emissions 2009 v 2008

Analysis:

In mass balance terms, as before, every parameter was below limits.

Using the figures in table 4.2, the following points will help in the analysis:

The Kill figures increased in 2010, compared to 2009, which highlighted an increase in comparison to previous annual kill totals.

4.1 Details of Non-Compliances

There were no non-compliant samples (by *parameter*, not day) recorded during the 2010 monitoring period, of 1324 samples taken, giving an overall percentage compliance rate of 100%.

The raw data and non-compliance summaries have been sent to the EPA under a different heading. It is noted that no individual samples exceeded emission limit values and the overall mass emission limits were not breached in 2010 (See Table 4.2).

The improvements can be seen across all test parameters now that the results are expressed in mass (concentration x flow) terms. This was agreed with the EPA during the 2007 site audit, with the result that during 2007 non-compliant results were virtually eliminated once flows were taken into account.

5.0 Surface Water Monitoring Summary

Surface water run off collected from a (a very limited) 'clean' yard and roof areas is discharged by gravity to a manhole (EW-3) and then flows into Dawn Pork and Bacon's surface water drainage system, which runs to the east of the site. The surface water finally discharges to the River Suir.

The layout of the site and the nature of the business demand that much of the roof and yard areas are fed to *foul sewers* (and thereafter to the effluent plant), which has greatly reduced the expected volume of surface water at EW-3. As outlined above Dawn Meats has made some progress in diverting a significant amount of roof-collected rainwater to the surface water system and further developments are continuing.

Analysis is carried out on a continuous, daily, monthly and quarterly basis for pH, COD, Total Ammonia, Suspended Solids, Oils, Fats and Greases and Conductivity, in accordance with Condition 9.1.4 and Schedule 3(i) off the site IPPCL. The results of monthly and quarterly surface water analysis are tabulated on Table 5.

Table 5.0 Surface water analytical results 2010

Month	Parameter			
	COD (mg/l)	NH3_N (mg/l)	OFG (mg/l)	SS (mg/l)
January	14			
February	13			
March	10	0.49	<1	10
April	14			
May	14			
June	8	0.51	<1	12
July	8			
August	10			
September	8	0.02	<1	4
October	10			
November	12			
December	12	0.06	<1	8
2010 Average	11.01	0.27	1	8.5

The results of analysis of surface water samples above are broadly similar to those reported for the previous monitoring period and are generally within expected levels for surface water run-off.

5.1 Details of Non-compliance

There are no emission limit values for surface water parameters set out in the IPPC licence.

Dawn Meats has, however, established warning and action levels for COD. The warning level for COD is 50mg/l and the action level is 100mg/l. As can be seen above, neither limit was exceeded during the 2010 monitoring period.

Accordingly, surface water discharges to the River Suir were within expected ranges during the reporting periods and were fully compliant.

6.0 Groundwater Monitoring Summary

There is a production well that meets the plant water demand, located within the Dawn Group Grannagh site perimeter.

This groundwater is monitored on an annual basis for the EU Drinking Water Directive parameters (see Appendix 1 for results). The results of analysis of some major environmental parameters are tabulated on Table 7.

Table 6.0 Results of groundwater analysis 2009 v 2008

	Nitrate (mg/l)	Phosphorus (mg/l)	Total Ammonia (mg/l)
EU MAC (80/778/EEC)	50	5.00	0.30
2009	8.40	0.16	<0.02
2010	6.06	0.16	<0.02

Nitrates showed a decrease of 2.34mg/l between 2009 and 2010. Phosphorus and Ammonia levels remained the same as 2009. All parameter results remained at a low concentration.

7.0 Waste Management

Management of solid non-hazardous and hazardous wastes are recorded in accordance with Condition 7 of the IPPC Licence.

Summary data from the waste management register are tabulated on Table 7. Totalled annual data is set out below:

Table 7.0 Summary Data of Waste Management Register

Waste Type	**Reporting Period**	
	2009	**2010**
Total quantity of waste produced in calendar year (Tonnes)	**12331.11**	**20102.6**
total quantity of waste disposed of on-site	0	0
total quantity of waste disposed of off-site	83.60	226.52
total quantity of waste recovered on-site	0	0
total quantity of waste recovered off-site	12247.51	19876.08
Non-Hazardous	**2009**	**2010**
Quantity of non-hazardous waste produced in calendar year (T)	**10080.19**	**16605.97**
quantity of non-hazardous waste disposed of on-site	0	0
quantity of non-hazardous waste disposed of off-site	83.60	226.52
quantity of non-hazardous waste recovered on-site	0	0
quantity of non-hazardous waste recovered off-site	10163.79	16397.05
Hazardous	**2009**	**2010**
Quantity of hazardous waste produced in calendar year (Tonnes)	**2250.91**	**3497.03**
quantity of hazardous waste disposed of on-site	0	0
quantity of hazardous waste disposed of off-site	0	0
quantity of hazardous waste recovered on-site	0	0
quantity of hazardous waste recovered off-site	2250.91	3497.03

(The above data includes organic waste arisings at the site.)

Organic waste (see below) **management** is carried out in accordance with a Nutrient Management Plan (copy of which has been submitted to the EPA under separate cover.

The information tabulated on Table 8 below have been extracted from the AER electronic report format, a copy of which has been transmitted to the Agency via internet in March 2011.

The following materials are considered to be by-products of the slaughtering process, and accordingly have not been included in the waste tables:

- Pet Food (lungs, liver, trachea, tripe, sweetbread, greaves and heart)
- Hides
- Tallow

A comparison of summary information on non-hazardous and hazardous wastes between 2009 and 2010 is presented graphically on Figure 3 below.

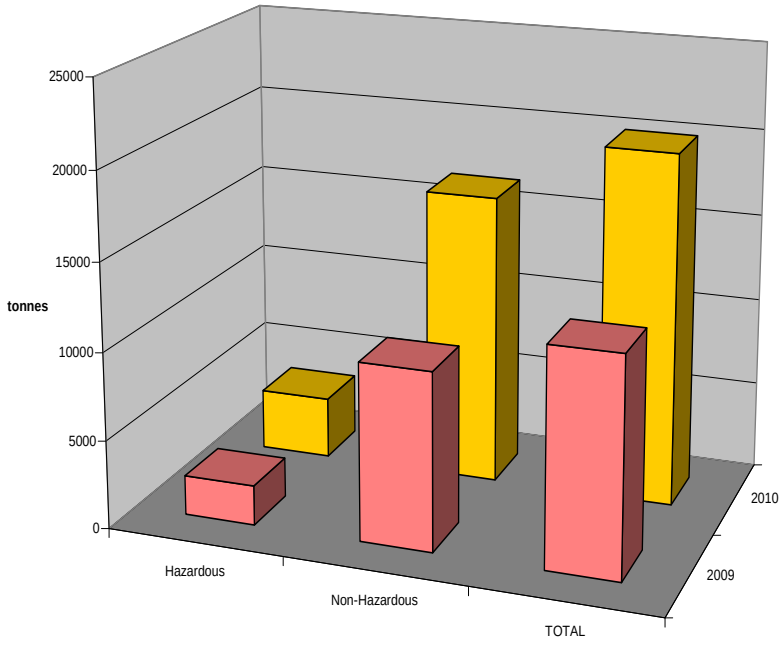


Figure 3 Comparison of Waste Arising 2009 v 2010

Table 8.0 Summary Waste Arisings (2010)

EWC Code	Hazardous (Yes/No)	Description of Waste	Quantity (t/year)	NACE Code	Location of Disposal/ Recovery	Name of Waste Disposal Recovery Contractor
02 02 02	Yes	SRM	3479.03	R11	(b)Dunlavin, Co. Wicklow	Dublin Products Ltd, Dunlavin, Co. Wicklow
13 02 08	Yes	Waste Oil	0	R13	(b)Portlaoise, Co. Laois	Enva Ireland Ltd, Portlaoise, Co. Laois
20 01 21	Yes	Used Fluorescent Tubes	0	R4	(b) Athy, Co Kildare	Irish Lamp Recycling Co. Ltd, Athy, Co Kildare.
02 02 02	No	Offals	3371.6	R11	(b) Ballyhaunis, Co Mayo	Molloy Waste Services, Lawlesstown, Clonmel, Co. Tipperary
02 02 02	No	Bone	4816.78	R11	(b) Ballyhaunis, Co Mayo	Beechfield Products Ltd, Beechwalk, Roscrea, Co Tipperary
02 02 99	No	Blood	1344.14	R11	(b) Silverwood, Craigavon, Armagh	APC Technology, Silverwood, Craigavon, Co. Armagh
02 02 04	No	Organic Waste	6864.53	R10	(b) Local Area	Approved Farmers as per submitted Nutrient Management Plan to the EPA
20 03 01	No	Mixed Municipal waste	146.98	D1	(b) AES (Irl) Ltd. Kilrane business park, Wexford	AES Environmental Services, Unit 1, Monread Business Park, Monread Rd, Naas, Co. Kildare (Recycling at AES Recycling, Kilrane Business Park, Rosslare, Co. Wexford)
02 02 99	No	Plastics	3.33	R3	(b) AES (Irl) Ltd. Kilrane business park, Wexford	AES Environmental Services, Unit 1, Monread Business Park, Monread Rd, Naas, Co. Kildare (Recycling at AES Recycling, Kilrane Business Park, Rosslare, Co. Wexford)
15 01 01	No	Paper & Cardboard Packaging	76.21	R3	(b) AES (Irl) Ltd. Kilrane business park, Wexford	AES Environmental Services, Unit 1, Monread Business Park, Monread Rd, Naas, Co. Kildare (Recycling at AES Recycling, Kilrane Business Park, Rosslare, Co. Wexford)

Analysis: To aid analysis, the main waste streams are detailed below.

Table 9.0 - Details of Main Waste Streams

Waste Type	2009 Tonnes	2010 Tonnes
Specified Risk Material	2250.91	3479.03
Waste Offals	2398.22	3371.61
Bones (non-SRM)	1312.13	4816.78
Sub total Offals & Bones	**5961.26**	**2089.63**
Blood	820.05	1344.14
Organic Waste	5424.04	6864.53

Conclusion: The boning hall re-opened in September 2009 which gives rise to the increase in bone. There was a strong increase in the numbers of cattle killed in 2010 which resulted in increases in offal and SRM yields.

7.1 Organic Waste Management

Organic waste at the facility arises from the treatment of process wastewater and from the dewatering of the paunch contents of slaughtered animals.

Liquid effluents from the processing and washing operations drain to an on-site wastewater treatment plant. The plant is a biological treatment (activated sludge) system, under the IPPC licence of Dawn Pork & Bacon Ltd.

Paunch contents are dewatered on a press and the liquid arising from the pressing along with cattle lairage cleaning and yard cleaning is diverted to the treatment plant.

Organic waste is stored at an approved off-site storage facility and land spread in accordance with a Nutrient Management Plan (NMP). (See appendix 3)

The quantity of organic waste arisings for the calendar year 2010 is tabulated on Table 10.0.

The total quantity of organic waste generated in the 2010 reporting period (6865 tonnes) increased by 26.6% from 2009 (5424 tonnes).

Table 10.0 Organic Waste Arising 2010

Month	WWTP Sludge(kgs)	DM Paunch (kgs)	DM Lairage (kgs)
January	340300	82300	0
February	1258560	98100	0
March	0	101600	0
April	938080	97800	0
May	346320	97240	216600
June	407800	84100	0
July	497720	69120	0
August	536300	90060	0
September	313800	127600	0
October	718540	103800	144280
November	0	108620	0
December	0	85890	0
2010	**5357420**	**1146230**	**360880**
	Total 6864530		

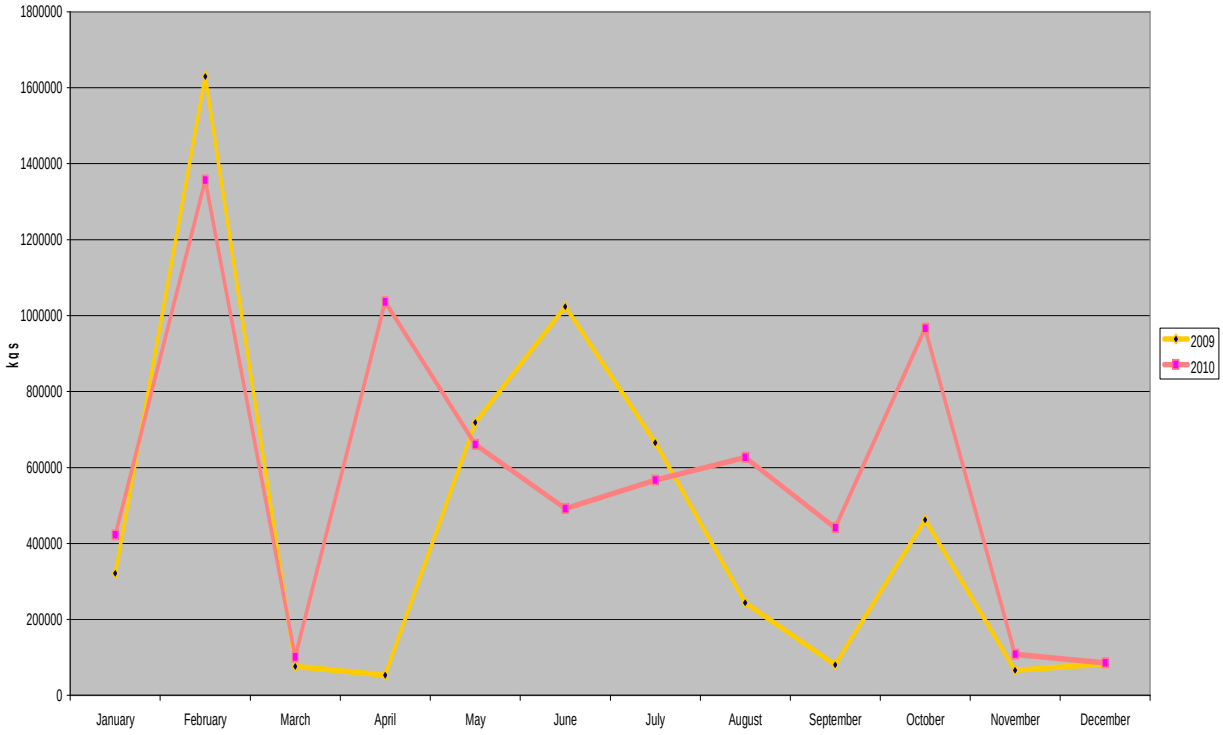


Figure 4 Comparison of Monthly Organic Waste Arisings 2009 v 2008

Analysis:

The increase in organic waste removed from site for land spreading is due to a number of factors:

- Kill Pattern - The increase in beef kill numbers directly affects the paunch yields, but it is often the pattern of kill, which has the greatest effect on lairage yields.
- WWTP sludge is generally fairly static, as both Dawn Meats and Dawn Pork and Bacon feed the WWTP. Timing of sludge disposal has some effect here also.

8.0 Resource Consumption

Data relating to energy consumption (electricity, light fuel oil and natural gas) and water for the 2010 reporting period are summarised in the following sections. Data for 2009 is provided for comparative purposes.

Data is presented as annual totals.

8.1 Summary Energy Consumption

Table 11.0 Summary Energy Consumption Data

Year	Oil Consumption (l)	Electricity Consumption (kWH)	Natural Gas Consumption (kWH)
	Total Usage	Total Usage	Total Usage
2009	0	3,625,000	4,896,391
2010	15,724	4,449,832	6,370,439

Conclusion: The re-opening of the new boning hall and associated refrigeration areas, increased mechanisation of the line, extension of chilled areas and other product safety enhancements such as maintaining sterilisation temperature equipment due to regulatory requirements have also increased relative electricity demand. The fact that refrigeration demand at the plant remains relatively constant under changing production levels has much to do with per head dis-improvement. The WWTP is also supplied with power from the Dawn Meats site and would have had a constant demand also. Natural gas consumption was increased due to running the boiler longer to facilitate additional cleaning of the new boning hall. The staggered start times for production and close management of the boilers increases the constant demand for electricity for much of the factory and the increased mechanisation of production militates against efficiency.

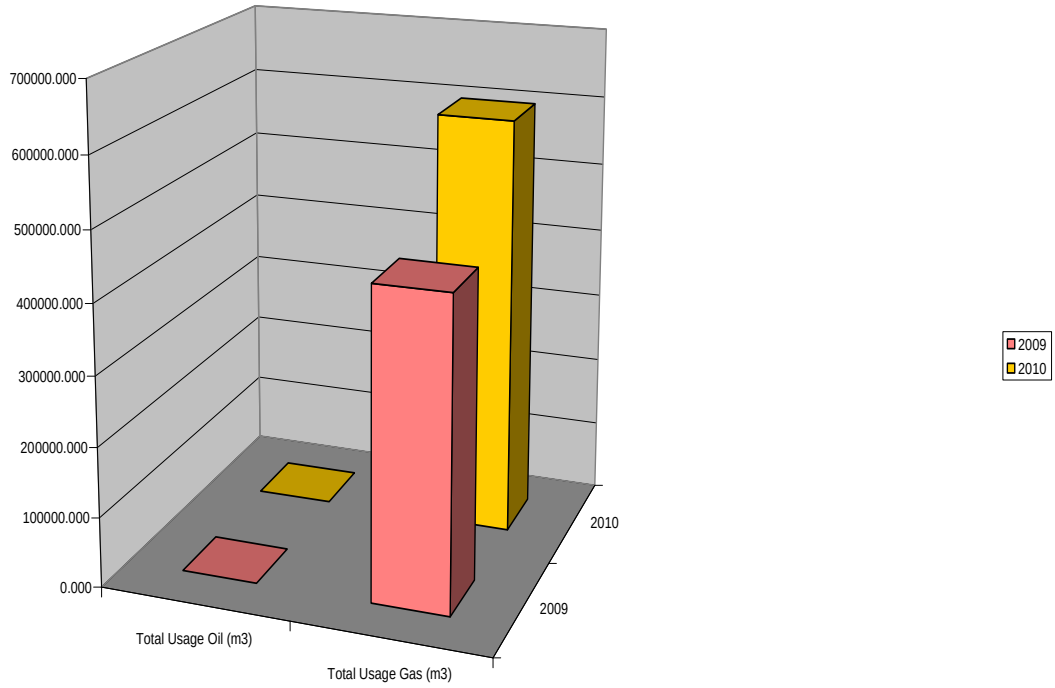


Figure 5 Oil & Gas consumption 2009 v 2010

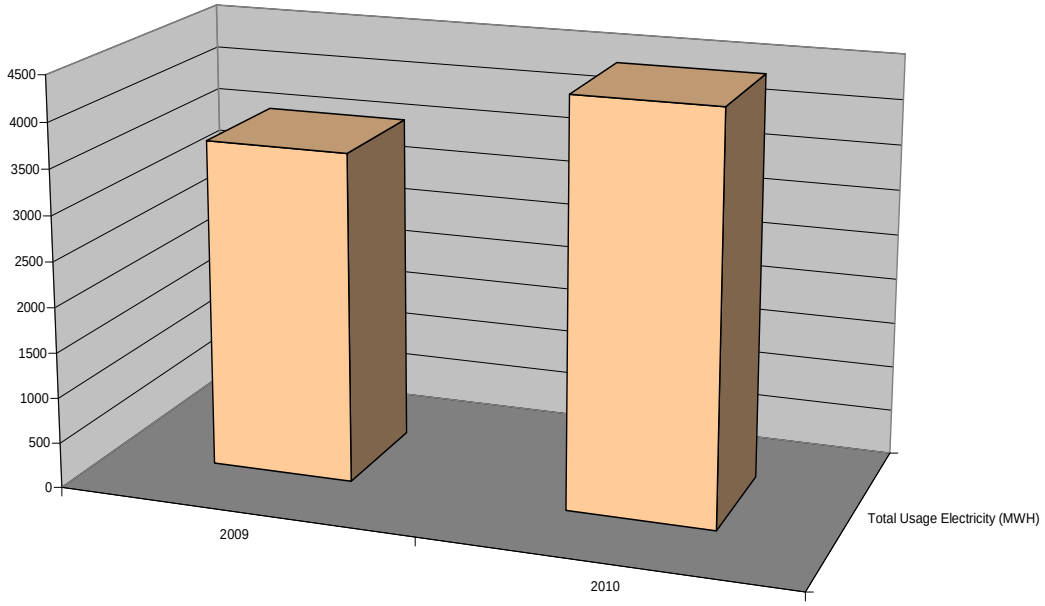


Figure 6 Electricity usage 2009 v 2010

8.2 Water Usage

Water consumption for the site for the 2010 reporting period is summarised on Table 12.0. Plant water demand is met from an on-site well and a municipal water supply.

Data for the same period in 2009 is provided for comparison purposes. Plant water usage is typically directly related to production levels, although DAFF driven hygiene regulations are tending to increase water usage per head in recent years.

Table 12.0 Plant water consumption

Year	Water Consumption (m^3)
	Total Usage
2010	144926 (+33.4%)
2009	108613

Analysis: As was forecast in last year's report, the increase in the numbers killed, saw a dis-improvement in water usage per head slaughtered. The situation is being continuously monitored.

9.0 Complaints Summary

There were no complaints received by Dawn Meats (Exports) during the reporting period of 2010.

9.1 EPA Audits 2010

The EPA performed one unannounced audit in May 2010 Ref: P0179-01/GC15ID. All observations were closed out to the general satisfaction of the Agency.

10.0 Reported Incidents Summary

There were no environmental incidents at the factory during the reporting period of 2010.

Appendix 1 Ground Water Analysis

RECEIVED
01 MAR 2010

Analysis Report

Dawn Pork and Bacon
Ms Joanne Day
Grannagh
Co. Waterford

DAWN MEATS (EXPORTS)
DATE RECEIVED: 10/03/10
APPROVED BY:
REF. NO: Non-Process Water Monitoring Tele.

microchem LABORATORIES
Clogherane
Dungarvan
Co Waterford
Ireland
Tel : +353 (0) 58 48300
Fax: +353 (0) 58 42855
Email: info@microchem.ie
http://www.microchem.ie

NOTE: Results for water potability analysis were checked against European Communities (Drinking Water No.2) Regulations of 2007

Sample No: **210001263**
PO Number: 26186
Batch Number: Well Water, 05/02/10

Sample Type: EU Directive (Audit List)
Description:
Date Received: 05-Feb-2010
Date Started: 05-Feb-2010

Analysis End Date: 01-Mar-2010

TEST	RESULT	Parametric Value
* 1,2-dichloroethane - Subcontracted	<0.08 µg/L	30ug/L
* Acrylamide - Subcontracted	<0.020 µg/L	0.1ug/L
* Aluminium - Subcontracted	9 µg/L	200.0ug/L
* Antimony - Subcontracted Laboratory Method	<0.12 µg/L	5.0ug/L
* Arsenic - Subcontracted Laboratory Method	<0.37 µg/L	10.0ug/L
* Benzene - Subcontracted Laboratory Method	<0.06 µg/L	1.0ug/L
* Benzo(a)pyrene - Subcontracted Laboratory Method	2 ng/L	0.01ug/L
* Boron - Subcontracted	26 µg/L	1.0mg/L
* Bromate - Subcontracted	<0.6 µg/L	10.0ug/L
* Cadmium - Subcontracted	<0.06 µg/L	5.0ug/L
* Chromium - Sub-contracted	1.0 µg/L	50.0ug/L
* Colour - SOP 2.1014	<10 Hazen	Acceptable
* Conductivity - SOP 2.1015	797µS/cm Temp:19.9 °C	2,500µS/cm @ 20.0°C
* Copper - Sub-contracted	<2.7 µg/L	2.0mg/L
* Cyanide - Sub-contracted	<0.7 µg/L	50.0ug/L
* Epichlorohydrin - Subcontracted	<0.10 µg/L	0.1ug/L
* Fluoride - Palin Test	0.1mg/L	0.8mg/L
* Iron - Sub-contracted	<10 µg/L	200.0ug/L
* Lead - Subcontracted	<0.5 µg/L	25.0ug/L
* Manganese (as Mn) - Sub-contracted	<1.8 µg/L	50.0ug/L
* Mercury (as Hg) - Subcontracted Laboratory Method	0.038 µg/L	1.0ug/L
* Nickel - Subcontracted	0.9 µg/L	20.0ug/L
* Nitrate (as N) - SOP 2.1179	6.06 mg/L	50.0mg/L
* Odour - APHA 20th Edition	Odourless	Acceptable.
** * Pesticides (Sub) - Organochlorine Pesticides (Water)	124_TCB_<0.002 µg/L	* Pesticide limit = 0.10ug/L
	Aldrin_<0.003 µg/L	0.03ug/L
	Alpha_HCH_<0.002 µg/L	
	Beta_HCH_<0.002 µg/L	
	Chlordane-Alpha_<0.002 µg/L	
	Chlorothalonil_<0.003 µg/L	
	Cyfluthrin_<0.003 µg/L	
	Cypermethrin_<0.003 µg/L	
	Delta_HCH_<0.002 µg/L	
	Deltamethrin_<0.004 µg/L	
	Dichlobenil_<0.001 µg/L	

** NOTE: Total pesticide limit = 0.5ug/L
Pesticide limit for the sum of conc. of each specified parameter = 0.10ug/L

* Pesticides (Sub) - Organochlorine Pesticides (Water)	Dieldrin_<0.002 µg/L	0.03µg/L
	EndosulfanA_(alpha-Endosulfan)_<0.003 µg/L	
	EndosulfanB_(beta-Endosulfan)_<0.003 µg/L	
	Endrin_<0.003 µg/L	
	Fenvalerate_<0.003 µg/L	
	Gamma-HCH_(Lindane)_<0.002 µg/L	
	Heptachlor_<0.002 µg/L	0.03ug/L
	Heptachlor_Epoxide_<0.002 µg/L	0.03ug/L
	Hexachlorobenzene_<0.002 µg/L	
	Hexachlorobutadiene_<0.002 µg/L	
	Isodrin_<0.003 µg/L	
	Methoxychlor_<0.003 µg/L	
	op-DDD_(TDE)_<0.002 µg/L	
	op-DDE_<0.002 µg/L	
	op-DDT_<0.002 µg/L	
	PCB_-_Arochlor_1254_<0.018 µg/L	
	Permethrin-cis_<0.003 µg/L	
	Permethrin-trans_<0.004 µg/L	
	pp-DDD_(TDE)_<0.003 µg/L	
	pp-DDE_<0.002 µg/L	
	pp-DDT_<0.002 µg/L	
* Pesticides (Sub) - Organophosphorus Pesticides (Water)	Azinphos_methyl_<0.004 µg/L	
	Carbophenothion_<0.012 µg/L	
	Chlorfenvinphos_<0.005 µg/L	
	Demeton-S-Methyl_<0.006 µg/L	
	Diazinon_<0.006 µg/L	
	Dichlorvos_<0.008 µg/L	
	Dimethoate_<0.005 µg/L	
	Fenitrothion_<0.004 µg/L	
	Malathion_<0.004 µg/L	
	Mevinphos_<0.004 µg/L	
	Parathion_ethyl_<0.006 µg/L	
	Phorate_<0.009 µg/L	
	Phosalone_<0.007 µg/L	
	Pirimiphos_methyl_<0.009 µg/L	
	Propetamphos_<0.007 µg/L	
	Triazophos_<0.003 µg/L	
* Polycyclic Aromatic Hydrocarbons (Sub) - Polycyclic Aromatic Hydrocarbons (Waters)	Benzo(b)fluoranthene_<0.001 µg/L	
	Benzo(ghi)perylene_0.001 µg/L	
	Benzo(k)fluoranthene_<0.001 µg/L	
	Benzo_3_4_pyrene_0.002 µg/L	
	Indeno(1_2_3cd)pyrene_<0.002 µg/L	
	Total_PAHs_4_Constituents_0.00100 µg/L	
* Selenium - Subcontracted Laboratory Method	1.6 µg/L	10ug/L
* Sodium (as Na) - AAS	18mg/L	200.0mg/L
* Taste - Sub-contracted	NONE	Acceptable
* Tetrachloroethene (Sub) - Subcontracted Laboratory Method	<0.05 µg/L	10.0ug/L
* Total Organic Carbon - USP 32	254ppb	
* Total Trihalomethanes - Subcontracted	Bromodichloromethane_<0.08 µg/L	
	Bromoform_<0.16 µg/L	
	Chlorodibromomethane_<0.09 µg/L	
	Chloroform_<0.9 µg/L	
	Total_THM_0 µg/L	100.0ug/L
* Trichloroethene (Sub) - Subcontracted Laboratory Method	<0.05 µg/L	10.0ug/L
* Turbidity - APHA 20th Edition	0.02NTU	
* Vinyl Chloride - Subcontracted	<0.1 µg/L	0.50ug/L
Ammonium -NH4 - SOP 2.1179	ND<0.02 mg/L	0.30mg/L
Chloride - SOP 2.1179	32 mg/L	250.00mg/L
Nitrite (as N) - SOP 2.1179	ND<0.02 mg/L	0.50mg/L
pH - SOP 2.1025	7.12	Acceptable

Sulphate - SOP 2.1179	21 mg/L	250.0mg/L

The above results comply with the EU Directive of 2007
S. Curran 01-03-2010

Signed: Carmel Fitzpatrick, Operations Manager

Date Authorised: **01-Mar-2010**

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22 FEB 2010

Analysis Report

Dawn Pork and Bacon
Ms Joanne Day
Grannagh
Co. Waterford

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Sample No: **100004947**
PO Number: 26196
Batch Number: Sampled 15.02.2010

Sample Type: Water
Description: Well Water/Water Potability
Date Received: 15-Feb-2010
Date Started: 15-Feb-2010
Analysis End Date: 20-Feb-2010 All results within spec.

TEST	RESULT
Cl. perfringens - SOP 1.1053	<1 cfu/100ml
Coliforms - SOP 1.1051	<1 cfu/100ml
E. coli - SOP 1.1059	<1 cfu/100ml
Enterococci - SOP 1.1052	<1 cfu/100ml
Total Bacterial Count @ 22°C - SOP 1.1050	<1 cfu/ml

Signed: Sandra Foley Analyst 3

Date Authorised: **20-Feb-2010**

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ISO 17025 INAB ACCREDITED TESTING DETAILED IN SCOPE REG NO.0047

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12 APR 2010

Analysis Report

Dawn Pork and Bacon

Ms Joanne Day
Grannagh
Co. Waterford

DAWN MEATS (EXPORTS)
DATE RECEIVED: 13/04/10
APPROVED BY:
REF. NO: Non Process WATER Monitoring File

microchem
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Co Waterford
Ireland
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Fax: +353 (0) 58 42855

Email: info@microchem.ie
http://www.microchem.ie

Sample No: **210003919**
PO Number: 28206
Batch Number: Well Water, Date Sampled 07/04/2010

Sample Type: Well Water
Description:
Date Received: 07-Apr-2010
Date Started: 09-Apr-2010

Analysis End Date: 12-Apr-2010

TEST	RESULT
* Phosphorus (total as P) - SOP 2.1179	0.16 mg/L

Signed: Teresa Twomey, Scientist

Date Authorised: **12-Apr-2010**

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Appendix 2 AER Summary Data Table 2010



| PRTR# : P0179 | Facility Name : Dawn Meats (Exports) Limited | Filename : P0179_2010(1).xls | Return Year : 2010 |

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.1

REFERENCE YEAR	2010

1. FACILITY IDENTIFICATION

Parent Company Name	Dawn Meats (Exports) Limited
Facility Name	Dawn Meats (Exports) Limited
PRTR Identification Number	P0179
Licence Number	P0179-01

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	Dawn Meats (Exports) Limited
Address 2	Grannagh
Address 3	Waterford
Address 4	
Country	Ireland
Coordinates of Location	-7.16827 52.2782
River Basin District	IESE
NACE Code	1011
Main Economic Activity	Processing and preserving of meat
AER Returns Contact Name	Michael Dillon
AER Returns Contact Email Address	mdillon@dawnmeats.com
AER Returns Contact Position	Environmental Manager
AER Returns Contact Telephone Number	051-309200
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	051-309292
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 ?	

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					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
					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 POLLUTANT EMISSIONS (as required in your Licence)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					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
238	Ammonia (as N)	C	OTH		2123.1	2123.1	0.0	0.0
303	BOD	C	OTH		44851.6	44851.6	0.0	0.0
306	COD	C	OTH		366732.2	366732.2	0.0	0.0
309	Detergents (as MBAS)	C	OTH		110.1	110.1	0.0	0.0
314	Fats, Oils and Greases	C	OTH		981.95	981.95	0.0	0.0
327	Nitrate (as N)	C	OTH		469.64	469.64	0.0	0.0
240	Suspended Solids	C	OTH		100178.9	100178.9	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

[PRTR# : P0179 | Facility Name : Dawn Meats (Exports) Limited | Filename : P0179_2010(1).xls | Return Year : 2010]

31/3/2011 13:05

Please enter all quantities on this sheet in Tonnes

11

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 02 02	No	3479.03	animal-tissue waste	R11	C	Weighed	Offsite in Ireland	Dublin Products Ltd,P0041-02	Dunlavin,.,Wicklow,.,Ireland		
Within the Country	02 02 02	No	3371.6	animal-tissue waste	R11	C	Weighed	Offsite in Ireland	Western Proteins,P0048-02	Ballyhaunis,.,Mayo,.,Ireland		
Within the Country	02 02 02	No	4816.78	animal-tissue waste	R11	C	Weighed	Offsite in Ireland	Western Proteins,P0048-02	Ballyhaunis,.,Mayo,.,Ireland		
Within the Country	02 02 04	No	6864.53	sludges from on-site effluent treatment	R10	C	Weighed	Offsite in Ireland	Agri-Life Ltd,WCP/KK/317(A)/08	Tourin,Cappoquinn,Waterford,.,Ireland		
To Other Countries	02 02 99	No	1344.14	waste not otherwise specified	R3	C	Weighed	Abroad	APC Regal Processors,REN 241 89	Silverwood IE ,Craigavon,Armagh,.,Ireland		
Within the Country	15 01 01	No	76.21	paper and cardboard packaging	R3	C	Weighed	Offsite in Ireland	AES (Irl) Ltd,W0229-01	Unit 1 Monread Business Park Monread Rd,Naas,Kildare,.,Ireland		
Within the Country	15 01 02	No	3.33	plastic packaging	R3	C	Weighed	Offsite in Ireland	AES (Irl) Ltd,W0229-01	Unit 1 Monread Business Park Monread Rd,Naas,Kildare,.,Ireland		
Within the Country	20 03 01	No	146.98	mixed municipal waste	D1	C	Weighed	Offsite in Ireland	AES (Irl) Ltd,W0229-01	Unit 1 Monread Business Park Monread Rd,Naas,Kildare,.,Ireland		

* Select a row by double clicking the Description of Waste then click the delete button

Appendix 3 Annual Land Spreading Summary 2010

Organic Waste Register
Part II - Annual Land Spreading Summary Per Farm (Paunch)

Company: Dawn Meats Exports Ltd IPPCL P0179-01 & Dawn Pork & Bacon IPPCL P0175-01

Product: Abattoir squeezed paunch
Nutrient Content of Waste: 6.327kg N/Tonne 1.434 kg P/tonne

Landowner: Simon Ryan, Newbawn Farm, Newbawn, Co. Wexford
Nutrient Management Plan Reference:
NMP for Dawn Meats Ltd, Grannagh, Co. Kilkenny (18/11/09)
Submitted to EPA 25/11/09

Total volume of organic waste that can be spread on to the farm 2010 (m^3), Plots 1-17A: **1678.0 m3**

Month	Paunch Removed from Licence Holder(kg)	Name of Haulier	Name of Spreader	Spread (m3)*	Cumulative Total Stored (m3)*	Permitted Loading Remaining (m3)*	Date Spread	Weather	48 hour forecast	Name of haulier	Name of spreader
Stored on farm from last spreading in October 2009	0	Dalton	AgriLife	0	255.82	1678					
Jan-10	82300	Dalton	AgriLife	0	338.12	1678					
Feb-10	98400	Dalton	AgriLife	423.32	13.20	1254.68	19/02/2010	Sunny	Sunny	Dalton	S Ryan
Mar-10	101600	Dalton	AgriLife	0	114.80	1254.68					
Apr-10	97800	Dalton	AgriLife	0	212.60	1254.68					
May-10	97240	Dalton	AgriLife	0	309.84	1254.68					
Jun-10	84100	Dalton	AgriLife	0	393.94	1254.68					
Jul-10	86420	Dalton	AgriLife	0	480.36	1254.68					
Aug-10	90060	Dalton	AgriLife	545.54	24.88	709.14	22/08/2010	Sunny	Sunny	Dalton	S Ryan
Sep-10	127600	Dalton	AgriLife		152.48	709.14					
Oct-10	103560	Dalton	AgriLife	0	256.04	709.14					
Nov-10	108820	Dalton	AgriLife	0	364.86	709.14					
Dec-10	85980	Dalton	AgriLife	0	450.84	709.14	At end Dec 2010				
TOTALS:	**1163880**			**988.86**							

* On advised equivalency of 1000kg = 1m^3 organic waste

Signed : _____ **Date:** 26/10/10
Deputy Environmental Co-ordinator

Organic Waste Register
Part II - Annual Land Spreading Summary Per Farm

Company: Dawn Meats Exports Ltd IPPCL P0179-01 & Dawn Pork & Bacon IPPCL P0175-01

Product: Abattoir squeezed paunch
Nutrient Content of Waste: 6.327 1.434 kg P/tonne

Landowner: Simon Ryan, Newbawn Farm, Newbawn, Co. Wexford
Nutrient Management Plan Reference:
NMP for Dawn Meats Ltd, Grannagh, Co. Kilkenny (18/11/09)
Submitted to EPA 25/11/09

	TOTAL	Newbawn Plots 1-18:																
Permitted Load (m^3):	**1678**	**105.3**	**114.5**	**17.1**	**212.8**	**119.8**	**157.4**	**87.9**	**229.8**	**209.3**	**70.8**	**81.8**	**144.1**	**127.4**				
Spreading Dates	Waste Removed from Paunch Site & Spread (m^3)*	Plot1	Plot2	Plot5	Plot7	Plot9	Plot10	Plot11	Plot12A	Plot12B	Plot13A	Plot13B	Plot16	Plot17A	Weather	48 hour forecast	Name of Haulier	Name of Spreader
19-Feb-10	**423.32**	0.00	0.00	0.00	0.00	113.32	157.40	0.00	0.00	0.00	70.80	81.80	0.00	0.00	Sunny	Sunny	Dalton	S Ryan
Capacity Remaining	*1254.68*	*105.30*	*114.50*	*17.10*	*212.80*	*6.48*	*0.00*	*87.90*	*229.80*	*209.30*	*0.00*	*0.00*	*144.10*	*127.40*				
22-Aug-10	**545.54**	0.00	0.00	0.00	0.00	0.00	0.00	87.90	229.80	209.30	0.00	0.00	18.54	0.00	Sunny	Sunny	Dalton	S Ryan
Capacity Remaining	*709.14*	*105.30*	*114.50*	*17.10*	*212.80*	*6.48*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*125.56*	*127.40*				
Total Spread 2010	**968.86**	0.00	0.00	0.00	0.00	113.32	157.40	87.90	229.80	209.30	70.80	81.80	18.54	0.00				
Newbawn Plots 1-17A:		Plot1	Plot2	Plot5	Plot7	Plot9	Plot10	Plot11	Plot12A	Plot12B	Plot13A	Plot13B	Plot16	Plot17A				

* On advised equivalency of 1000kg = $1m^3$ organic waste

Signed : _____ **Date:** 26/10/12

Deputy Environmental Co-ordinator

Organic Waste Register
Part II - Annual Land Spreading Summary Per Farm

Company: Dawn Meats Exports Ltd IPPCL P0179-01 & Dawn Pork & Bacon IPPCL P0175-01

Product: WWTP Sludge & Lairage Slurry
Nutrient Content of Waste: 4.614 kg N/ tonne 1.576 kg P/tonne

Landowner: Jack Frisby, Red Acres, Mullinavat, Co. Kilkenny
Nutrient Management Plan Reference:
NMP for Dawn Meats Ltd, Grannagh, Co. Kilkenny (18/11/09)
Submitted to EPA 25/11/09

	TOTAL	Mullenbeg 1	Kilmogue 1-2		Curraghmore Plots 6-10					Curraghmore Plots 11A-13C								
Permitted Load (m^3):	**340.3**	**149.6**	**20.4**	**5.6**	**45.9**	**13.8**	**16.2**	**13.0**	**20.3**	**12.7**	**13.8**	**2.7**	**4.1**	**13.9**	**8.3**			
Spreading Dates	Waste Removed from Licensee & Spread (m^3)*	Plot1	Plot1	Plot2	Plot6	Plot7	Plot8	Plot9	Plot10	Plot11A	Plot11B	Plot12	Plot13A	Plot13B	Plot13C	Weather	48 hour forecast	Name of Haulier	Name of Spreader
22/01/2010	**149.60**	149.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Sunny	Sunny	AgriLife	AgriLife
Capacity Remaining	*190.70*	*0.00*	*20.40*	*5.60*	*45.90*	*13.80*	*16.20*	*13.00*	*20.30*	*12.70*	*13.80*	*2.70*	*4.10*	*13.90*	*8.30*				
25/01/2010	**26.00**	0.00	20.40	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*Sunny*	*Sunny*	*AgriLife*	*AgriLife*
Capacity Remaining	*123.60*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*				
26/01/2010	**88.90**	0.00	0.00	0.00	45.90	13.80	16.20	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*Sunny*	*Sunny*	*AgriLife*	*AgriLife*
Capacity Remaining	*-62.90*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*				
29/01/2010	**46.80**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.30	12.70	13.80	0.00	0.00	0.00	0.00	*Sunny*	*Sunny*	*AgriLife*	*AgriLife*
Capacity Remaining	*42.10*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*				
30/01/2010	**29.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.70	4.10	13.90	*8.30*	*Sunny*	*Sunny*	*AgriLife*	*AgriLife*
Capacity Remaining	*161.70*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*				
Total Spread 2010	**178.60**	149.60	20.40	5.60	45.90	13.80	16.20	13.00	20.30	12.70	13.80	2.70	4.10	13.90	8.30				
	Mullenbeg 1	Plot1	Plot1	Plot2	Plot6	Plot7	Plot8	Plot9	Plot10	Plot11A	Plot11B	Plot12	Plot13A	Plot13B	Plot13C				

Kilmogue 1-2
Curraghmore Plots 1-5:
Curraghmore Plots 11A-13C

* On advised equivalency of 1000kg = $1m^3$ organic waste

Signed :
Deputy Environmental Co-ordinator

Date: 26/10/10

EVR 09b Issue Date: 14/12/05
Issued by: G Walsh
Approved by: C Coakley

Organic Waste Register
Part II Annual Land Spreading Summary Per Farm

Company: Dawn Meats Exports Ltd IPPCL P0179-01 & Dawn Pork & Bacon IPPCL P0175-01

Product: WWTP Sludge & Lairage Slurry
Nutrient Content of Waste: 4.614 kg N/ tonne 1.576Kg P/Tonne

Landowner: George and Edwin Jennings, Island View, Fornaght, Dunmore East, Co. Waterford
Nutrient Management Plan Reference:
NMP for Dawn Meats Ltd, Grannagh, Co. Kilkenny (18/11/09)
Submitted to EPA 25/11/09

	TOTAL	Woodstown Lwr. 2-3:	Ballyglan:6	Fornaght:4,5 7-9					Kilcop Upr:1-5				Ballygunnermore:1,2		Raheen:2-4,7-9 10A-10F 11-14																	
Permitted Load (m^3):	1761.6	115.4	185.6	85.5	79.5	57.5	20.8	56.0	107.2	216.4	67.7	39.1	105.2	29.3	142.3	149.6	55.3	0.0	0.0	23.7	20.6	24.1	3.8	12.9	4.7	9.3	12.6	49.1	45.7	17.6	24.7				
Spreading Dates	Waste Removed from Licensee & Spread (m^3)*	Plot2	Plot3	Plot6	Plot4	Plot 5	Plot7	Plot8	Plot 9	Plot1-2	Plot 3	Plot4	Plot5	Plot1	Plot 2	Plot2	Plot3	Plot 4	Plot 7	Plot8	Plot9	Plot 10A	Plot10B	Plot10C	Plot 10D	Plot10E	Plot10F	Plot11	Plot12	Plot13	Plot14	Weather	48 hour forecast	Name of Haulier	Name of Spreader
Feb-10	370.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	216.40	67.70	39.10	26.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Sunny	Sunny	AgriLife	AgriLife
Capacity Remaining	*1391.48*	*115.40*	*185.60*	*85.50*	*79.50*	*57.50*	*20.80*	*56.00*	*107.20*	*0.00*	*0.00*	*0.00*	*78.28*	*29.30*	*142.30*	*149.60*	*55.30*	*0.00*	*0.00*	*23.70*	*20.60*	*24.10*	*3.80*	*12.90*	*4.70*	*9.30*	*12.60*	*49.10*	*45.70*	*17.60*	*24.70*				
May-10	44.12	0.00	0.00	0.00	0.00	0.00	0.00	44.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Sunny	Sunny	AgriLife	AgriLife
Capacity Remaining	*1347.36*	*115.40*	*185.60*	*85.50*	*79.50*	*57.50*	*20.80*	*11.88*	*107.20*	*0.00*	*0.00*	*0.00*	*78.28*	*29.30*	*142.30*	*149.60*	*55.30*	*0.00*	*0.00*	*23.70*	*20.60*	*24.10*	*3.80*	*12.90*	*4.70*	*9.30*	*12.60*	*49.10*	*45.70*	*17.60*	*24.70*				
Total Spread 2010	414.24	0.00	0.00	0.00	0.00	0.00	0.00	44.12	0.00	0.00	67.70	39.10	26.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Plots		Plot2	Plot3	Plot6	Plot4	Plot5	Plot7	Plot8	Plot9	Plot 1-2	Plot3	Plot4	Plot5	Plot1	Plot 2	Plot2	Plot3	Plot 4	Plot 7	Plot8	Plot9	Plot 10A	Plot10B	Plot10C	Plot 10D	Plot10E	Plot10F	Plot11	Plot12	Plot13	Plot14				

* On advised equivalency of 1000kg = $1m^3$ organic waste

Signed : 25/11/10
Deputy Environmental Co-ordinator

Organic Waste Register
Part II - Annual Land Spreading Summary Per Farm

Company: Dawn Meats Exports Ltd IPPCL P0179-01 & Dawn Pork & Bacon IPPCL P0175-01

Product: WWTP Sludge & Lairage Slurry
Nutrient Content of Waste: 4.614 kg N/ tonne 1.576 kg P/tonne

Landowner: Eamonn Doherty, Ballyrobin, Ferrybank, Waterford, Co Waterford
Nutrient Management Plan Reference:
NMP for Dawn Meats Ltd, Grannagh, Co. Kilkenny (18/11/09)
Submitted to EPA 25/11/09

	TOTAL	Ballynamona Plots 1-16:																		
Permitted Load (m^3):	**797**	**18.6**	**51.3**	**34.2**	**33.7**	**30.8**	**58.8**	**31.9**	**121.4**	**67.0**	**50.1**	**78.1**	**65.7**	**42.5**	**59.3**	**39.1**	**14.5**				
Spreading Dates	Waste Removed from Licensee & Spread (m^3)*	Plot1	Plot2	Plot3	Plot4	Plot5	Plot6	Plot7	Plot8	Plot9	Plot10	Plot11	Plot12	Plot13	Plot14	Plot15	Plot16	Weather	48 hour forecast	Name of Haulier	Name of Spreader
13-Apr-10	**130.62**	18.60	51.30	34.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.72	14.50	Sunny	Sunny	AgriLife	AgriLife
Capacity Remaining	*666.38*	*0.00*	*0.00*	*0.00*	*33.70*	*30.80*	*58.80*	*31.90*	*121.40*	*67.00*	*50.10*	*78.10*	*65.70*	*42.50*	*59.30*	*27.38*	*0.00*				
31 Aug - 01 Sep	**313.80**	0.00	0.00	0.00	33.70	30.80	58.80	31.90	0.00	67.00	50.10	41.50	0.00	0.00	0.00	0.00	0.00	Sunny	Sunny	AgriLife	AgriLife
Capacity Remaining	*352.58*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*121.40*	*0.00*	*0.00*	*36.60*	*65.70*	*42.50*	*59.30*	*27.38*	*0.00*				
Total Spread 2010	**444.42**	*0.00*	*0.00*	*0.00*	*33.70*	30.80	58.80	31.90	0.00	67.00	50.10	41.50	0.00	0.00	0.00	11.72	14.50				
Ballynamona Plots 1-16:		Plot1	Plot2	Plot3	Plot4	Plot5	Plot6	Plot7	Plot8	Plot9	Plot10	Plot11	Plot12	Plot13	Plot14	Plot15	Plot16				

* On advised equivalency of 1000kg = 1m^3 organic waste

Signed : _____ **Date:** 26/10/10
Deputy Environmental Co-ordinator

Organic Waste Register
Part II - Annual Land Spreading Summary Per Farm

Company: Dawn Meats Exports Ltd IPPCL P0179-01 & Dawn Pork & Bacon IPPCL P0175-01

Product: WWTP Sludge & Lairage Slurry
Nutrient Content of Waste: 4.614 kg N/tonne 1.576 kg P/tonne

Landowner: James Power, Ballinamoynatraph, Dunmore East, Co. Waterford
Nutrient Management Plan Reference:
NMP for Dawn Meats Ltd, Grannagh, Co. Kilkenny (18/11/09)
Submitted to EPA 25/11/09

	TOTAL	Kilmaclague Plots 8-18:												Ballynamoyntragh Plots 7-13:												Kellogg Plots 1-11											
Permitted Load (m³):	**2213.4**	**198.3**	**62.8**	**58.3**	**117.3**	**109.2**	**70.8**	**30.4**	**26.5**	**68.0**	**31.6**	**54.1**	**85.8**	**23.4**	**25.3**	**57.8**	**16.0**	**11.8**	**37.3**	**11.1**	**20.8**	**58.0**	**16.5**	**28.4**	**22.7**	**27.1**	**109.9**	**23.9**	**25.2**	**19.1**	**12.2**	**31.3**	**4.3**	**83.5**	**60.4**	**98.3**	**85.5**	**84.1**	**89.2**
Spreading Dates	Waste Removed from Licensee & Spread (m³)*	Plot8	Plot7	Plot6	Plot9	Plot10	Plot7	Plot8	Plot9	Plot10	Plot11A	Plot11B	Plot12	Plot13	Plot1	Plot2	Plot3	Plot4	Plot5	Plot6	Plot7	Plot8	Plot9	Plot10	Plot11	Plot13	Plot15	Plot16	Plot17	Plot18	Plot19	Plot20	Plot21	Plot1	Plot2	Plot3	Plot4	Plot5	Plot6
05-06/08/2010	536.38	0.00	55.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83.50	60.40	98.30	85.50	84.10	89.20	Sunny	Sunny	AgriLife	AgriLife
Capacity Remaining	*1677.1*	*198.30*	*7.50*	*58.30*	*117.30*	*109.20*	*70.80*	*30.40*	*26.50*	*68.00*	*31.60*	*54.10*	*85.80*	*23.40*	*25.30*	*57.80*	*16.00*	*11.80*	*37.30*	*11.10*	*20.80*	*58.00*	*16.50*	*28.40*	*22.70*	*27.10*	*109.90*	*23.90*	*25.20*	*19.10*	*12.20*	*31.30*	*4.30*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*			
11-14/08/2010	716.54	0.00	0.00	0.00	44.04	109.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.30	57.80	16.00	11.80	37.30	11.10	20.80	58.00	16.50	28.40	22.70	27.10	109.90	23.90	25.20	19.10	12.20	31.30	4.30	0.00	0.00	0.00	0.00	0.00	0.00	Sunny	Sunny	AgriLife	AgriLife
Capacity Remaining	*958.6*	*198.30*	*7.50*	*58.30*	*73.26*	*0.00*	*70.80*	*30.40*	*26.50*	*68.00*	*31.60*	*54.10*	*85.80*	*23.40*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*			
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Sunny	Rain	AgriLife	AgriLife
Capacity Remaining	*958.6*	*198.30*	*7.50*	*58.30*	*73.26*	*0.00*	*70.80*	*30.40*	*26.50*	*68.00*	*31.60*	*54.10*	*85.80*	*23.40*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*			
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Sunny	Sunny	AgriLife	AgriLife
Capacity Remaining	*958.6*	*198.30*	*7.50*	*58.30*	*73.26*	*0.00*	*70.80*	*30.40*	*26.50*	*68.00*	*31.60*	*54.10*	*85.80*	*23.40*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*			
Total Spread 2010	**1254.94**	0.00	55.30	0.00	44.04	109.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.30	57.80	16.00	11.80	37.30	11.10	20.80	58.00	16.50	28.40	22.70	27.10	109.90	23.90	25.20	19.10	12.20	31.30	4.30	83.50	60.40	98.30	85.50	84.10	89.20			
		Plot8	Plot7	Plot6	Plot9	Plot10	Plot7	Plot8	Plot9	Plot10	Plot11A	Plot11B	Plot12	Plot13	Plot1	Plot2	Plot3	Plot4	Plot5	Plot6	Plot7	Plot8	Plot9	Plot10	Plot11	Plot13	Plot15	Plot16	Plot17	Plot18	Plot19	Plot20	Plot21	Plot1	Plot2	Plot3	Plot4	Plot5	Plot6			

Kilmaclague Plots 8-18 & Ballynamoyntragh Plots 7-13
Kellogg Plots 1-11 & 13, 15-21
Gaiffin Plots: 1-6
* On advised equivalency of 1000kg = 1m³ organic waste

Signed : _____ **Date:** 26/10/10
Deputy Environmental Co-ordinator

Organic Waste Register
Part II - Annual Land Spreading Summary Per Farm

Company: Dawn Meats Exports Ltd IPPCL P0179-01 & Dawn Pork & Bacon IPPCL P0175-01

Product: WWTP Sludge & Lairage Slurry
Nutrient Content of Waste: 4.614 kg N/ tonne 1.576 kg P/tonne

Landowner: Brigid Wall, Newtown, Kilmacthomas, Co Waterford
Nutrient Management Plan Reference:
NMP for Dawn Meats Ltd, Grannagh, Co. Kilkenny (18/11/09)
Submitted to EPA 25/11/09

	TOTAL	Newtown Plots 1-4 & 8,10,12,13,15:												
Permitted Load (m^3):	**700**	**67.2**	**86.3**	**85.7**	**81.6**	**64.2**	**47.9**	**45.8**	**147.2**	**74.1**				
Spreading Dates	Waste Removed from Licensee & Spread (m^3)*	Plot1	Plot2	Plot3	Plot4	Plot8	Plot10	Plot12	Plot13	Plot15	Weather	48 hour forecast	Name of Haulier	Name of Spreader
16-Apr-10	**200.08**	0.00	0.00	85.70	81.60	0.00	32.78	0.00	0.00	0.00	Sunny	Sunny	AgriLife	AgriLife
Capacity Remaining	*499.92*	67.20	86.30	0.00	0.00	64.20	15.12	45.80	147.20	74.10				
06 07 May 2010	**302.20**	65.78	0.00	0.00	0.00	0.00	15.12	0.00	147.20	74.10	Cloudy	Cloudy	AgriLife	AgriLife
Capacity Remaining	*197.72*	*1.42*	*86.30*	*85.70*	*81.60*	*64.20*	*0.00*	*45.80*	*0.00*	*0.00*				
02/06/2010	**365.22**	0.00	86.30	0.00	0.00	0.00	15.12	42.50	147.20	74.10	Cloudy	Cloudy	AgriLife	AgriLife
Capacity Remaining	*-167.50*	*1.42*	*0.00*	*0.00*	*0.00*	*64.20*	*0.00*	*3.30*	*0.00*	*0.00*				
Total Spread 2010	**502.28**	65.78	86.30	85.70	81.60	0.00	0.00	42.50	147.20	74.10				
Newtown Plots 1-4 & 8,10,12,13,15:		Plot1	Plot2	Plot3	Plot4	Plot8	Plot10	Plot12	Plot13	Plot15				

* On advised equivalency of 1000kg = $1m^3$ organic waste

Signed : _____ **Date:** 26/10/10

Deputy Environmental Co-ordinator

Company: Dawn Meats Exports Ltd IPPCL P0179-01 & Dawn Pork & Bacon IPF

Product: WWTP Sludge & Lairage Slurry
Nutrient Content of Waste: 4.614 kg N/ tonne 1.576 kg P/tonne

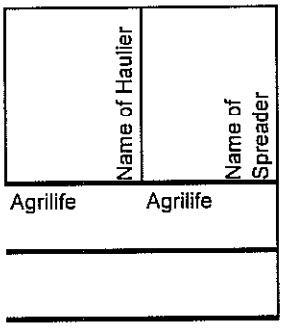
Landowner: Michael Queally, Kilminnin, Stradbally, Co Waterford
Nutrient Management Plan Reference:
NMP for Dawn Meats Ltd, Grannagh, Co. Kilkenny (18/11/09)
Submitted to EPA 25/11/09

	TOTAL	**Kilminnin Lwr 1-4**					
Permitted Load (m^3):	**666.9**	**0.0**	**145.9**	**235.7**	**285.3**		
Spreading Dates	Waste Removed from Licensee & Spread (m^3)*	Plot1	Plot2	Plot3	Plot 4	Weather	48 hour forecast
10-12 Febuary 2010	**666.90**	0.00	145.90	235.70	285.30	Sunny	Sunny
Capacity Remaining	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*		
	0.00	0.00	0.00	0.00	0.00		
Capacity Remaining	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*		
Total Spread 2010	**666.90**	0.00	145.90	235.70	285.30		
	Kilminnin Lwr Plots 1-4	Plot1	Plot2	Plot3	Plot 4		

* On advised equivalency of 1000kg = $1m^3$ organic waste

Signed : 26/10/12
Deputy Environmental Co-ordinator

PCL P0175-01



Company: Dawn Meats Exports Ltd IPPCL P0179-01 & Dawn Pork & Bacon IPPCL P0175-01

Product: WWTP Sludge & Lairage Slurry
Nutrient Content of Waste: 4.614 kg N/ tonne 1.576 kg P/tonne

Landowner: Sean Lacey, Joanstown, Carrick on Suir, Co. Tipperary
Nutrient Management Plan Reference:
NMP for Dawn Meats Ltd, Grannagh, Co. Kilkenny (18/11/09)
Submitted to EPA 25/11/09

	TOTAL	Joanstown SL2A,2B SL3,SL4																	
Permitted Load (m^3):	**1025.6**	**257.1**	**22.7**	**3.0**	**9.5**	**68.7**	**45.9**	**86.1**	**99.2**	**69.5**	**131.1**	**65.0**	**83.2**	**26.8**	**57.8**				
Spreading Dates	Waste Removed from Licenses & Spread (m^3)*	SL2A	SL2B	SL3	SL4	SL6	SL7	SL8	SL10	SL11	SL13	SL14	SL16	SL19	SL20	Weather	48 hour forecast	Name of Haulier	Name of Spreader
12-13 Febuary 2010	**214.42**	214.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Sunny	Sunny	Agrilife	Agrilife
Capacity Remaining	*811.18*	*42.68*	*22.70*	*3.00*	*9.50*	*68.70*	*45.90*	*86.10*	*99.20*	*69.50*	*131.10*	*65.00*	*83.20*	*26.80*	*57.80*				
13-16 April 2010	**607.68**	0.00	0.00	0.00	0.00	68.70	45.90	86.10	99.20	69.50	131.10	65.00	0.00	0.00	42.18	Sunny	Sunny	Agrilife	Agrilife
Capacity Remaining	*203.50*	*42.68*	*22.70*	*3.00*	*9.50*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*83.20*	*26.80*	*15.62*				
Total Spread 2010	**822.10**	214.42	0.00	0.00	0.00	68.70	45.90	86.10	99.20	69.50	131.10	65.00	0.00	0.00	42.18				
Joanstown Plots SL2A-,2B SL3,SL4		SL2A	SL2B	SL3	SL4	SL6	SL7	SL8	SL10	SL11	SL13	SL14	SL16	SL19	SL20				
Curraghduff Plots SL6-8 SL10,11 SL13,14 SL16-20																			

* On advised equivalency of 1000kg = $1m^3$ organic waste

Signed :

Deputy Environmental
Co-ordinator

Company: Dawn Meats Exports Ltd IPPCL P0179-01 & Dawn Pork & Bacon IPPCL P0175-01

Product: Lairage Slurry
Nutrient Content of Waste: 0.179 kg N/ tonne 0.091Kg P/Tonne

Landowner: George and Edwin Jennings, Island View, Fornaght, Dunmore East, Co. Waterford
Nutrient Management Plan Reference:
NMP for Dawn Meats Ltd, Grannagh, Co. Kilkenny (18/11/09)
Submitted to EPA 25/11/09

	TOTAL	Woodstown Upr. 1-5:				
Permitted Load (m^3):	**743**	**0.0**	**124.5**	**194.0**	**98.0**	**326.5**
Spreading Dates	Waste Removed from Licensee & Spread (m^3)*	Plot1	plot2	Plot3	Plot4	Plot 5
19-20 May 2010	**216.60**	0.00	0.00	0.00	0.00	216.60
Capacity Remaining	*526.40*	*0.00*	*124.50*	*194.00*	*98.00*	*109.90*
Oct-10	**144.28**	0.00	0.00	144.28	0.00	0.00
Capacity Remaining	*382.12*	*0.00*	*124.50*	*49.72*	*98.00*	*109.90*
Total Spread 2010	**360.88**	0.00	0.00	144.28	0.00	216.60
	Plots	Plot1	plot2	Plot3	Plot4	Plot5

* On advised equivalency of 1000kg = $1m^3$ organic waste

Signed :

Deputy Environmental Co-ordinator

Company: Dawn Meats Exports Ltd IPPCL P0179-01 & Dawn Pork & Bacon IPPCL P0175-01

Product: WWTP Sludge & Lairage Slurry
Nutrient Content of Waste: 4.614 kg N/ tonne 1.576 kg P/tonne

Landowner: Joe Mulhern, Lemybrien, Kilmacthomas, Co Waterford
Nutrient Management Plan Reference:
NMP for Dawn Meats Ltd, Grannagh, Co. Kilkenny (18/11/09)
Submitted to EPA 25/11/09

	TOTAL	Newtown Plots 9, 11, 14						
Permitted Load (m^3):	**237.2**	**35.7**	**94.8**	**106.7**				
Spreading Dates	Waste Removed from Licensee & Spread (m^3)*	Plot9	Plot11	Plot14	Weather	48 hour forecast	Name of Haulier	Name of Spreader
Feb-10	7.12	7.12	0.00	0.00			AgriLife	AgriLife
Capacity Remaining	*230.08*	28.58	94.80	106.70				
Total Spread 2010	**7.12**	7.12	0.00	0.00				
Newtown Plots 9,11,14:		Plot9	Plot11	Plot14				

* On advised equivalency of 1000kg = 1m^3 organic waste

Signed : **Date:** 26/10/10

Deputy Environmental Co-ordinator

Organic Waste Register
Part II - Annual Land Spreading Summary Per Farm

Company: Dawn Meats Exports Ltd IPPCL P0179-01 & Dawn Pork & Bacon IPPCL P0175-01

Product: WWTP Sludge & Lairage Slurry
Nutrient Content of Waste: 4.614 kg N/ tonne 1.576 kg P/tonne

Landowner: Dermot Queally, Dunhill, Co Waterford
Nutrient Management Plan Reference:
NMP for Dawn Meats Ltd, Grannagh, Co. Kilkenny (18/11/09)
Submitted to EPA 25/11/09

	TOTAL	**Ballinatin 1-3, 5, 9, 10, 13**										
Permitted Load (m^3):	**900.9**	**26.2**	**54.8**	**97.0**	**149.0**	**108.1**	**61.7**	**54.0**				
Spreading Dates	Waste Removed from Licensee & Spread (m^3)*	Plot1	Plot2	Plot3	Plot5	Plot9	Plot10	Plot13	Weather	48 hour forecast	Name of Haulier	Name of Spreader
7-8 July 2010	**497.72**	26.20	54.80	97.00	149.00	108.10	8.62	54.00	Sunny	Sunny	Agrilife	Agrilife
Capacity Remaining	*403.18*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*53.08*	*0.00*				
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Sunny	Sunny	Agrilife	Agrilife
Capacity Remaining	*403.18*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*53.08*	*0.00*				
Total Spread 2010	**497.72**	26.20	54.80	97.00	149.00	108.10	8.62	54.00				
Ballinatin Plots 1-3, 5, 9, 10, 13:		Plot1	Plot2	Plot3	Plot5	Plot9	Plot10	Plot13				

* On advised equivalency of 1000kg = $1m^3$ organic waste

Signed : _____ **Date:** _____
Deputy Environmental Co-ordinator

Appendix 4 Process Effluent Monitoring 2010

DAWN MEATS PROCESS EFFLUENT ANALYSIS - IPPCL P0179-01
(By Concentration and By Mass)

Month: January 2010

Date	Flow (675m3)	BOD (4000mg/l)	BOD (1350kg)	COD (7000 mg/l)	COD (2362kg)	SS (2000mg/l)	SS (675kg)	A (150mg/l)	A (67.5kg)	P (200mg/l)	P (47.25kg)	N (150mg/l)	N (67.5kg)	Det (20mg/l)	Det (13.5kg)	OFG (150mg/l)	OFG (101.2kg)	pH (6.0 8.5)	Temp (<42oC)
01/01/2010																			
02/01/2010																			
03/01/2010																			
04/01/2010	**345**			5800	**562.6**	1125	**109.125**												
05/01/2010	**97**																		
06/01/2010	**525**	1967	**157.36**	5260	**420.8**	1685	**134.8**	49	**3.92**	38.5	**3.08**	17.5	**1.4**	0.7	**0.056**	102	**8.16**	**7.12**	**9.2**
07/01/2010	**80**																		
08/01/2010	**653**			2290	**1495.37**													**7.31**	**9.1**
09/01/2010																			
10/01/2010																			
11/01/2010	**444**			5290	**2348.76**	1490	**263.73**											**7.33**	**10.2**
12/01/2010	**177**																		
13/01/2010	**542**	1659	**867.657**	3730	**1950.79**	1005	**525.615**	98	**51.254**	40	**20.92**	20	**10.46**					**7.41**	**11.4**
14/01/2010	**523**			3790	**1982.17**	915	**498.675**							6.28	**3.4226**	83.7	**45.6165**	**7.22**	**14.6**
15/01/2010	**545**																		
16/01/2010																			
17/01/2010																			
18/01/2010	**548**			3780	**2071.44**	1095	**215.715**											**7.27**	**10.4**
19/01/2010	**197**																		
20/01/2010	**566**	2394	**481.194**	5890	**1183.89**	1110	**223.11**	104	**20.904**	36	**7.236**	21	**4.221**	3.7	**0.7437**	6.28	**1.26228**	**7.40**	**12.3**
21/01/2010	**201**																		
22/01/2010	**583**			3960	**2308.68**	990	**577.17**												
23/01/2010																			
24/01/2010																			
25/01/2010	**441**			3380	**1953.64**	1115	**644.47**	81	**46.818**	42.5	**24.565**	19	**10.982**	5	**2.89**	9	**5.202**	**7.31**	**12.1**
26/01/2010	**578**	1394	**804.338**	3910	**2256.07**	1140	**657.78**											**7.12**	**12.2**
27/01/2010	**577**			5960	**1013.2**	1635	**277.95**											**7.62**	**10.2**
28/01/2010	**170**	1390	**853.46**	3160	**1940.24**	975	**598.65**											**7.22**	**11.5**
29/01/2010	**614**																		
30/01/2010																			
31/01/2010																			
Average	**420.3**		**632.8**		**1652.9**		**393.9**		**30.7**		**14.0**		**6.8**		**1.8**		**15.1**	**7.3**	**11.2**
# Tests	**20**		**5**		**13**		**12**		**4**		**4**		**4**		**4**		**4**	**11**	**11**
NCR	**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**	**0**	**0**

Totals **92** **0**

DAWN MEATS PROCESS EFFLUENT ANALYSIS - IPPCL P0179-01
(By Concentration and By Mass)

Month: February 2010

Date	Flow (675m3)	BOD (4000mg/l)	BOD (1350kg)	COD (7000 mg/l)	COD (2362kg)	SS (2000mg/l)	SS (675kg)	A (150mg/l)	A (67.5kg)	P (200mg/l)	P (47.25kg)	N (150mg/l)	N (67.5kg)	Det (20mg/l)	Det (13.5kg)	OFG (150mg/l)	OFG (101.2kg)	pH (6.0 8.5)	Temp (<42oC)
01/02/2010	506			5100	1020	1470	294											7.44	14.3
02/02/2010	200																		
03/02/2010	577	2131	1240.242	3670	2135.94	980	570.36	45	26.19	55	32.01	21	12.222	3.7	2.1534	6.28	3.65496	7.40	12.3
04/02/2010	582					970	568.42												
05/02/2010	586			3390	1986.54	990	580.14											7.21	13.9
06/02/2010																			
07/02/2010																			
08/02/2010	559			4150	2319.85	1170	654.03											7.44	12.9
09/02/2010	588			3250	1813.5	980	546.84	61	34.038	38	21.204	15	8.37					7.15	13.3
10/02/2010	558	2183	375.476	5630	968.36	1605	276.06							8.65	1.4878	4.4	0.7568	7.23	13.2
11/02/2010	172																		
12/02/2010	650																		
13/02/2010																			
14/02/2010																			
15/02/2010	541			4880	883.28	1735	314.035	75	13.575	47	8.507	97	17.557					7.33	12.2
16/02/2010	181																		
17/02/2010	618	906	586.182	3060	1979.82	965	624.355							13	8.411	127.6	82.5572	7.21	11.4
18/02/2010	647			2910	1882.77	970	627.59											7.40	11.5
19/02/2010	651			3570	2324.07	985	641.235											7.32	13.2
20/02/2010																			
21/02/2010																			
22/02/2010	496			3860	2354.6	890	542.9	70	42.7	35	21.35	25	15.25					7.23	12.3
23/02/2010	610			3230	1915.39	850	504.05												
24/02/2010	593	2849	535.612	4310	810.28	800	150.4							18	3.384	34.5	6.486	7.25	11.5
25/02/2010	188																		
26/02/2010	617			3530	2178.01	650	401.05											7.32	9.8
27/02/2010																			
28/02/2010																			
Average	506.0		684.4		1755.2		486.4		29.1		20.8		13.3		3.9		23.4	7.3	12.4
# Tests	20		4		14		14		4		4		4		4		4	13	13
NCR	0		0		0		0		0		0		0		0		0	0	0

Totals 98 0

DAWN MEATS PROCESS EFFLUENT ANALYSIS - IPPCL P0179-01
(By Concentration and By Mass)

Month: March 2010

Date	Flow (675m3)	BOD (4000mg/l)	BOD (1350kg)	COD (7000 mg/l)	COD (2362kg)	SS (2000mg/l)	SS (675kg)	A (150mg/l)	A (67.5kg)	P (200mg/l)	P (47.25kg)	N (150mg/l)	N (67.5kg)	Det (20mg/l)	Det (13.5kg)	OFG (150mg/l)	OFG (101.2kg)	pH (6.0 8.5)	Temp (<42oC)
01/03/2010	420			5220	1054.44	999	201.798	53	10.706	28	5.656	17	3.434					7.22	12.3
02/03/2010	202																		
03/03/2010	589	2204	1262.892	4050	2320.65	950	544.35							3	1.719	19	10.887	7.04	12.3
04/03/2010	573			3505	2008.365	850	487.05											7.32	15.6
05/03/2010	636			3420	2175.12	935	594.66											7.11	12.6
06/03/2010																			
07/03/2010																			
08/03/2010	496	1172	759.456	3510	2274.48	899	582.552	55	35.64	30	19.44	21	13.608	4.2	2.7216	97	62.856	7.32	15.3
09/03/2010	648																		
10/03/2010	597			3662	2186.214	580	346.26											7.44	12.8
11/03/2010	224			3557	796.768	660	147.84											7.11	14.9
12/03/2010	624			3360	2096.64	870	542.88											7.18	16.2
13/03/2010																			
14/03/2010																			
15/03/2010	542			3360	1821.12	960	520.32											7.20	11.5
16/03/2010	55	2157	1309.299	3490	2118.43	965	585.755	78	47.346	55	33.385	40	24.28	0.8	0.4856	28.2	17.1174	7.44	12.5
17/03/2010	607																		
18/03/2010	536																		
19/03/2010	55			5350	294.25	1070	58.85											7.11	16.3
20/03/2010																			
21/03/2010																			
22/03/2010	514			3850	1978.9	815	418.91											7.20	15.6
23/03/2010	605			3710	2244.55	950	574.75											7.25	14.2
24/03/2010	605	2144	1340	3270	2043.75	680	425	80	50	39	24.375	30	18.75	11	6.875	6.5	4.0625	7.53	16.3
25/03/2010	625																		
26/03/2010	659			3320	2187.88	990	652.41											7.11	19.4
27/03/2010																			
28/03/2010																			
29/03/2010	519			3240	1681.56	965	500.835											7.21	18.5
30/03/2010	620			3080	1909.6	905	561.1											7.11	16.5
31/03/2010	629	2568	1292.9322	4240	2134.7478	920	463.2	72.6	36.5525	44	22.153	20	10.0696	2.4	1.2083	57.3	28.8493	7.35	17.2
Average	503.5		1192.9		1851.5		456.0		36.0		21.0		14.0		2.6		24.8	7.2	15.0
# Tests	23		5		18		18		5		5		5		5		5	18	18
NCR	0		0		0		0		0		0		0		0		0	0	0

Totals 125 0

DAWN MEATS PROCESS EFFLUENT ANALYSIS - IPPCL P0179-01
(By Concentration and By Mass)

Month: April 2010

Date	Flow (675m3)	BOD (4000mg/l)	BOD (1350kg)	COD (7000 mg/l)	COD (2362kg)	SS (2000mg/l)	SS (675kg)	A (150mg/l)	A (67.5kg)	P (200mg/l)	P (47.25kg)	N (150mg/l)	N (67.5kg)	Det (20mg/l)	Det (13.5kg)	OFG (150mg/l)	OFG (101.2kg)	pH (6.0 8.5)	Temp (<42oC)
01/04/2010	636			2780	1768.08	550	349.8											7.24	15.9
02/04/2010	55																		
03/04/2010																			
04/04/2010																			
05/04/2010																			
06/04/2010	581			2390	1388.59	965	560.665											7.32	20.2
07/04/2010	541	1618	677.942	3450	1445.55	605	253.495	78	32.682	40	16.76	19	7.961	1.9	0.7961	5.8	2.4302	7.44	19.8
08/04/2010	419			3880	1625.72	635	266.065											7.56	16.4
09/04/2010	632			3580	2262.56	775	489.8											7.89	17.8
10/04/2010																			
11/04/2010																			
12/04/2010	502	1610	988.54	2610	1602.54	810	497.34											7.33	21.5
13/04/2010	614	1510	884.86	3510	2056.86	1095	641.67											7.35	19.7
14/04/2010	586	1390	326.65	3390	796.65	665	156.275	98	23.03	50.5	11.8675	15	3.525	1.6	0.376	2.5	0.5875	7.29	17.5
15/04/2010	235																		
16/04/2010	665	1900	1263.5	2900	1928.5	955	635.075											7.44	14.5
17/04/2010																			
18/04/2010																			
19/04/2010	546			2090	1141.14	530	289.38											7.41	17.6
20/04/2010	604			3210	1938.84	925	558.7											7.32	17.9
21/04/2010	179	1044	662.94	3300	2095.5	810	514.35	82	52.07	55	34.925	40	25.4	0.9	0.5715	5.3	3.3655	7.44	19.2
22/04/2010	635																		
23/04/2010	640			2360	1510.4	875	560											7.15	18.4
24/04/2010																			
25/04/2010																			
26/04/2010	535			3240	1733.4	910	486.85											7.34	18.3
27/04/2010	596			3020	1799.92	835	497.66											7.25	19.4
28/04/2010	582	1362	384.084	4750	1339.5	930	262.26	80	22.56	76	21.432	44	12.408	0.7	0.1974	53	14.946	7.31	18.7
29/04/2010	282																		
30/04/2010	55			4560	250.8	850	46.75											7.35	18.2
Average	**481.9**		**741.2**		**1569.7**		**415.7**		**32.6**		**21.2**		**12.3**		**0.5**		**5.3**	**7.4**	**18.3**
# Tests	**21**		**7**		**17**		**17**		**4**		**4**		**4**		**4**		**4**	**17**	**17**
NCR	**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**	**0**	**0**

Totals
116
0

Record Sheet EVR08
Revision No 02
Issue Date: 07/03/06

Issued by: G Walsh
Approved by: C Coakley

DAWN MEATS PROCESS EFFLUENT ANALYSIS - IPPCL P0179-01
(By Concentration and By Mass)

Month: May 2010

Date	Flow (675m3)	BOD (4000mg/l)	BOD (1350kg)	COD (7000 mg/l)	COD (2362kg)	SS (2000mg/l)	SS (675kg)	A (150mg/l)	A (67.5kg)	P (200mg/l)	P (47.25kg)	N (150mg/l)	N (67.5kg)	Det (20mg/l)	Det (13.5kg)	OFG (150mg/l)	OFG (101.2kg)	pH (6.0 8.5)	Temp (<42oC)
01/05/2010																			
02/05/2010																			
03/05/2010	593																		
04/05/2010	648			3252	2107.296	850	550.8											7.22	19.8
05/05/2010	608			3100	998.2	810	260.82			89	28.658	53	17.066					7.31	18.2
06/05/2010	322			4780	1539.16	1265	407.33											7.49	15.6
07/05/2010	655			3080	2017.4	830	543.65											7.46	16.8
08/05/2010																			
09/05/2010																			
10/05/2010	482			3410	1643.62	795	383.19											7.33	19.5
11/05/2010	547			3730	2040.31	710	384.11	81	43.821	56	30.296	30	16.23					7.14	19.7
12/05/2010	541			3800	2055.8	755	408.455											7.52	16.8
13/05/2010	216			3470	749.52	475	310.65	44	28.776									7.65	17.2
14/05/2010	654																		
15/05/2010																			
16/05/2010																			
17/05/2010	462			6140	1111.34	1440	260.64	137	24.797	73.5	13.3035	20	3.62					6.98	18.1
18/05/2010	181																		
19/05/2010	564	1650	920.7	3850	2148.3	960	535.68							7.22	4.0288	63.7	35.5446	7.21	20.1
20/05/2010	558			3860	2153.88	955	532.89											7.15	18.4
21/05/2010	579			3640	2107.56	915	529.785											6.72	19.2
22/05/2010																			
23/05/2010																			
24/05/2010	417			4290	2346.63	1215	664.605	114	62.358	72	39.384	35	19.145					7.10	19.5
25/05/2010	547			4280	2341.16	1200	656.4											7.10	18.9
26/05/2010	553	3550	784.55	6490	1434.29	1785	394.485							2.39	0.5282	105.8	23.3818	7.20	18.5
27/05/2010	221																		
28/05/2010	655			3580	2344.9	985	645.175											7.13	17.2
29/05/2010																			
30/05/2010																			
31/05/2010	480			4250	2040	1165	559.2											7.10	18.7
Average	499.2		852.6		1834.1		472.2		39.9		27.9		14.0		2.3		29.5	7.2	18.4
# Tests	21		2		17		17		4		4		4		2		2	17	17
NCR	0		0		0		0		0		0		0		0		0	0	0

Totals

107

0

Record Sheet EVR08
Revision No 02
Issue Date: 07/03/06

Issued by: G Walsh
Approved by: C Coakley

DAWN MEATS PROCESS EFFLUENT ANALYSIS - IPPCL P0179-01
(By Concentration and By Mass)

Month: June 2010

Date	Flow (675m3)	BOD (4000mg/l)	BOD (1350kg)	COD (7000 mg/l)	COD (2362kg)	SS (2000mg/l)	SS (675kg)	A (150mg/l)	A (67.5kg)	P (200mg/l)	P (47.25kg)	N (150mg/l)	N (67.5kg)	Det (20mg/l)	Det (13.5kg)	OFG (150mg/l)	OFG (101.2kg)	pH (6.0 8.5)	Temp (<42oC)
01/06/2010	**322**																		
02/06/2010	**581**	2103	**1305.963**	3510	**2179.71**	1060	**658.26**	99	**61.479**	68	**42.228**	36	**22.356**	5.225	**3.2447**	36	**22.356**	**7.20**	**18.2**
03/06/2010	**621**			3040	**1887.84**	1020	**633.42**											**7.19**	**19.2**
04/06/2010	**587**			3030	**1778.61**	1035	**607.545**											**7.21**	**18.4**
05/06/2010																			
06/06/2010																			
07/06/2010																			
08/06/2010	**442**			5210	**2302.82**	1020	**544.68**	125	**66.75**	48.5	**25.899**	35	**18.69**					**7.22**	**19.4**
09/06/2010	**534**	2279	**1296.751**	3330	**1894.77**	1055	**600.295**							3.5	**1.9915**	79.2	**45.0648**	**7.21**	**19.8**
10/06/2010	**569**			4090	**2327.21**	1125	**640.125**											**7.23**	**19.8**
11/06/2010	**648**			3610	**2339.28**	960	**622.08**											**7.21**	**18.4**
12/06/2010																			
13/06/2010																			
14/06/2010	**484**			4830	**2337.72**	1015	**491.26**											**7.23**	**17.8**
15/06/2010	**497**			4560	**2266.32**	1275	**633.675**											**7.20**	**20.5**
16/06/2010	**534**																		
17/06/2010	**274**	1593	**1009.962**	3630	**2301.42**	750	**475.5**	98	**62.132**	50	**31.7**	29	**18.386**	2.44	**1.547**	2.49	**1.57866**	**7.40**	**21.4**
18/06/2010	**634**			3550	**2250.7**	1010	**640.34**											**7.50**	**22.1**
19/06/2010																			
20/06/2010																			
21/06/2010	**527**			4420	**2329.34**	1205	**635.035**											**7.21**	**20.3**
22/06/2010	**597**	2286	**1307.592**	3930	**2247.96**	1090	**623.48**	109	**62.348**	69	**39.468**	20	**11.44**	13.62	**7.7906**	34	**19.448**	**7.20**	**19.8**
23/06/2010	**572**			3500	**2002**	1175	**672.1**											**7.20**	**19.7**
24/06/2010	**425**			4620	**1963.5**	1055	**448.375**											**7.20**	**20.1**
25/06/2010	**219**																		
26/06/2010																			
27/06/2010																			
28/06/2010	**430**			5440	**2339.2**	1435	**617.05**											**7.41**	**21.5**
29/06/2010	**228**																		
30/06/2010	**569**	1759	**862.24505**	4740	**2323.5029**	1300	**637.2476**	100	**49.019**	48	**23.5291**	30	**14.7057**	2.7	**1.3235**	104	**50.9798**	**7.30**	**22.5**
Average	**490.2**		**1156.5**		**2180.7**		**598.9**		**60.3**		**32.6**		**17.1**		**3.2**		**27.9**	**7.3**	**19.9** **Totals**
# Tests	**21**		**5**		**17**		**17**		**5**		**5**		**5**		**5**		**5**	**17**	**17** **119**
NCR	**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**	**0**	**0** **0**

DAWN MEATS PROCESS EFFLUENT ANALYSIS - IPPCL P0179-01
(By Concentration and By Mass)

Month: July 2010

Date	Flow (675m3)	BOD (4000mg/l)	BOD (1350kg)	COD (7000 mg/l)	COD (2362kg)	SS (2000mg/l)	SS (675kg)	A (150mg/l)	A (67.5kg)	P (200mg/l)	P (47.25kg)	N (150mg/l)	N (67.5kg)	Det (20mg/l)	Det (13.5kg)	OFG (150mg/l)	OFG (101.2kg)	pH (6.0 8.5)	Temp (<42oC)
01/07/2010	658			3580	2355.64	975	641.55											6.90	21.5
02/07/2010	456			5100	2325.6	1440	656.64											7.20	21.2
03/07/2010																			
04/07/2010																			
05/07/2010	448			5100	2284.8	1445	647.36											7.11	21.2
06/07/2010	521			4340	2261.14	1210	630.41											7.41	19.5
07/07/2010	528	3191.25	711.64875	6480	1445.04	1260	280.98	143	31.889	50.75	11.3173	5.4	1.2042	7.1	1.5833	6.5	1.4495	7.31	18.5
08/07/2010	223																		
09/07/2010	506			4620	2337.72	1275	645.15											7.22	20.1
10/07/2010																			
11/07/2010																			
12/07/2010	466			4080	1901.28	1235	575.51											7.18	20.3
13/07/2010	188																		
14/07/2010	577	2273.75	1277.8475	3920	2203.04	1065	598.53	114	64.068	50	28.1	4.6	2.5852	3.57	2.0063	70	39.34	7.36	21.2
15/07/2010	562			4040	2270.48	1135	637.87											7.41	19.1
16/07/2010	658			3500	2303	950	625.1											7.45	20.3
17/07/2010																			
18/07/2010																			
19/07/2010	359			5520	1981.68	1730	621.07											7.46	22.3
20/07/2010	506			4620	2337.72	1285	650.21											7.43	22
21/07/2010	484	2756.25	565.03125	5340	1094.7	1980	405.9	145	29.725	55	11.275	1.2	0.246	3.11	0.6376	104.26	21.3733	7.32	19.6
22/07/2010	205																		
23/07/2010	472			3780	1784.16	1215	573.48											7.44	21
24/07/2010																			
25/07/2010																			
26/07/2010	84																		
27/07/2010	499			4530	2260.47	1215	606.285											7.20	22.5
28/07/2010	478	2086	1036.742	4350	2161.95	1325	658.525	120	59.64	50	24.85	10	4.97	2.77	1.3767	32.3	16.0531	7.20	21.4
29/07/2010	497			4400	2186.8	1345	668.465											7.30	19
30/07/2010	414			4280	1771.92	765	316.71											7.25	21
31/07/2010																			
Average	**445.0**		**897.8**		**2070.4**		**580.0**		**46.3**		**18.9**		**2.3**		**1.4**		**19.6**	**7.3**	**20.7** **Totals**
# Tests	**22**		**4**		**18**		**18**		**4**		**4**		**4**		**4**		**4**	**18**	**18** **118**
NCR	**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**	**0**	**0** **0**

Record Sheet EVR08
Revision No 02
Issue Date: 07/03/06

Issued by: G Walsh
Approved by: C Coakley

DAWN MEATS PROCESS EFFLUENT ANALYSIS - IPPCL P0179-01
(By Concentration and By Mass)

Month: August 2010

Date	Flow (675m3)	BOD (4000mg/l)	BOD (1350kg)	COD (7000 mg/l)	COD (2362kg)	SS (2000mg/l)	SS (675kg)	A (150mg/l)	A (67.5kg)	P (200mg/l)	P (47.25kg)	N (150mg/l)	N (67.5kg)	Det (20mg/l)	Det (13.5kg)	OFG (150mg/l)	OFG (101.2kg)	pH (6.0 8.5)	Temp (<42oC)
01/08/2010																			
02/08/2010																			
03/08/2010	506			4420	2236.52	1325	670.45											7.50	19
04/08/2010	507	2250	1206	3680	1972.48	1087	582.632	123	65.928	44.5	23.852	10	5.36	8.675	4.6498	22.5	12.06	7.40	21.0
05/08/2010	536			4090	2192.24	1105	592.28											7.30	21.1
06/08/2010	398			4610	1834.78	1205	479.59											7.28	20.4
07/08/2010																			
08/08/2010																			
09/08/2010	298			5910	1761.18	990	295.02											7.14	19.4
10/08/2010	457			5120	2339.84	980	447.86											7.10	21.2
11/08/2010	203																		
12/08/2010	520	1155	534.765	4000	1852	915	423.645	122	56.486	52.5	24.3075	13	6.019	2.44	1.1297	74.9	34.6787	7.50	19.7
13/08/2010	463			4270	1977.01	1215	562.545											7.44	20.4
14/08/2010																			
15/08/2010																			
16/08/2010	370			6100	2257	1595	590.15											7.33	19.1
17/08/2010	236																		
18/08/2010	488	2375	1170.875	4420	2179.06	990	488.07	120	59.16	37.5	18.4875	25	12.325	5.05	2.4897	47.4	23.3682	7.32	19.2
19/08/2010	493			3460	1705.78	960	473.28											7.42	22.5
20/08/2010	379			5310	2012.49	1730	655.67	61										7.41	21
21/08/2010																			
22/08/2010																			
23/08/2010	356			4530	1612.68	1215	432.54											7.34	19.2
24/08/2010	508	3185	570.115	6300	1127.7	1645	294.455	154	27.566	47	8.413	20	3.58	13.2	2.3628	15.6	2.7924	7.10	19.3
25/08/2010	179																		
26/08/2010	563			3980	2240.74	970	546.11											7.31	19.8
27/08/2010	651			3810	2350.11	975	634.725											7.23	18.4
28/08/2010																			
29/08/2010																			
30/08/2010	420			4520	1898.4	1530	642.6											7.41	17.18
31/08/2010	144																		
Average	**413.1**		**870.4**		**1973.5**		**518.3**		**52.3**		**18.8**		**6.8**		**2.7**		**18.2**	**7.3**	**19.9**
# Tests	**21**		**4**		**17**		**17**		**4**		**4**		**4**		**4**		**4**	**17**	**17**
NCR	**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**	**0**	**0**

Totals
113
0

Record Sheet EVR08
Revision No 02
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Issued by: G Walsh
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DAWN MEATS PROCESS EFFLUENT ANALYSIS - IPPCL P0179-01
(By Concentration and By Mass)

Month: Septmeber 2010

Date	Flow (675m3)	BOD (4000mg/l)	BOD (1350kg)	COD (7000 mg/l)	COD (2362kg)	SS (2000mg/l)	SS (675kg)	A (150mg/l)	A (67.5kg)	P (200mg/l)	P (47.25kg)	N (150mg/l)	N (67.5kg)	Det (20mg/l)	Det (13.5kg)	OFG (150mg/l)	OFG (101.2kg)	pH (6.0 8.5)	Temp (<42oC)
01/09/2010	**546**	2049	**1278.576**	3420	**2134.08**	1035	**645.84**	79	**49.296**	47.5	**29.64**	15	**9.36**	6.125	**3.822**	37.8	**23.5872**	**7.40**	**20.0**
02/09/2010	**624**			3460	**2159.04**	1015	**633.36**											**7.40**	**21.2**
03/09/2010	**466**																		
04/09/2010																			
05/09/2010																			
06/09/2010	**484**	1620	**869.94**	3960	**2126.52**	1020	**547.74**	119	**63.903**	37.5	**20.1375**	30	**16.11**	2.75	**1.4768**	4.22	**2.26614**	**7.21**	**19.8**
07/09/2010	**537**			4150	**2228.55**	990	**531.63**												
08/09/2010	**526**			3880	**2040.88**	1120	**589.12**												
09/09/2010	**174**																		
10/09/2010	**587**			2440	**1432.28**	225	**132.075**												
11/09/2010																			
12/09/2010																			
13/09/2010	**468**		**0**	3360	**1871.52**	1095	**609.915**											**7.47**	**18.8**
14/09/2010	**557**		**0**	4230	**2275.74**	1085	**583.73**											**7.40**	**19.1**
15/09/2010	**538**	1885	**1025.44**	4020	**2186.88**	945	**514.08**	109	**59.296**	53.5	**29.104**	30	**16.32**	7	**3.808**	5.5	**2.992**	**7.40**	**19.4**
16/09/2010	**544**			3440	**1871.36**	1100	**598.4**											**7.00**	**20.14**
17/09/2010	**190**																		
18/09/2010																			
19/09/2010																			
20/09/2010	**398**			4890	**1946.22**	1190	**473.62**											**7.33**	**19.1**
21/09/2010	**549**	2850	**504.45**	5040	**892.08**	1305	**230.985**	148	**26.196**	65.5	**11.5935**	39	**6.903**	7.725	**1.3673**	20.72	**3.66744**	**7.20**	**20.7**
22/09/2010	**177**																		
23/09/2010	**542**			3920	**2124.64**	1175	**636.85**											**7.20**	**18.42**
24/09/2010	**588**																		
25/09/2010																			
26/09/2010																			
27/09/2010	**404**			4660	**1882.64**	1615	**652.46**											**7.21**	**19.4**
28/09/2010	**204**																		
29/09/2010	**526**	1840	**997.28**	2750	**1490.5**	1195	**647.69**	112	**60.704**	52.5	**28.455**	5	**2.71**	8.85	**4.7967**	8.9	**4.8238**	**7.10**	**20.1**
30/09/2010	**542**			3790	**2054.18**	915	**495.93**											**7.10**	**20.4**
Average	**462.3**		**668.0**		**1919.8**		**532.7**		**51.9**		**23.8**		**10.3**		**3.1**		**7.5**	**7.3**	**19.7**
# Tests	**22**		**5**		**16**		**16**		**5**		**5**		**5**		**5**		**5**	**13**	**13**
NCR	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Totals **110** **0**

Record Sheet EVR08
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Issued by: G Walsh
Approved by: C Coakley

DAWN MEATS PROCESS EFFLUENT ANALYSIS - IPPCL P0179-01
(By Concentration and By Mass)

Month: October 2010

Date	Flow (675m3)	BOD (4000mg/l)	BOD (1350kg)	COD (7000 mg/l)	COD (2362kg)	SS (2000mg/l)	SS (675kg)	A (150mg/l)	A (67.5kg)	P (200mg/l)	P (47.25kg)	N (150mg/l)	N (67.5kg)	Det (20mg/l)	Det (13.5kg)	OFG (150mg/l)	OFG (101.2kg)	pH (6.0 8.5)	Temp (<42oC)
01/10/2010	463			4480	2074.24	1285	594.955											7.11	17.44
02/10/2010																			
03/10/2010																			
04/10/2010	436	2510	1265.04	3440	1733.76	1250	630	116	58.464	72	36.288	4.9	2.4696	11.75	5.922	20.2	10.1808	7.44	17.9
05/10/2010	504			3320	1673.28	1080	544.32											7.20	18.63
06/10/2010	166																		
07/10/2010	482			3870	1865.34	1030	496.46											7.10	19.21
08/10/2010	451			4025	1285	1285	579.535											7.15	18.05
09/10/2010																			
10/10/2010																			
11/10/2010	403			5050	2035.15	1590	640.77											7.21	18.25
12/10/2010	150																		
13/10/2010	484	2250	1201.5	3600	1922.4	1120	598.08	89	47.526	65	34.71	10	5.34	7	3.738	62.1	33.1614	7.20	17.2
14/10/2010	534																		
15/10/2010	513			3340	625	1125	577.125	,										7.44	17.34
16/10/2010																			
17/10/2010																			
18/10/2010	414	2110	1177.38	3440	1919.52	950	530.1	104	58.032	41.5	23.157	2	1.116	2.27	1.2667	25.5	14.229	7.39	17.06
19/10/2010	558			3360	1874.88	1040	580.32											7.40	15.22
20/10/2010	195																		
21/10/2010	601			2940	1766.94	965	579.965											7.40	14.3
22/10/2010	439			3080	1352.12	1085	476.315											7.33	15.21
23/10/2010																			
24/10/2010																			
25/10/2010																			
26/10/2010	583	702	412.776	2860	1060	1060	623.28	110	64.68	46	27.048	1.5	0.882	3.86	2.2697	13.7	8.0556	7.30	15.2
27/10/2010	588			3830	2252.04	1030	605.64											7.40	15.07
28/10/2010	477			3430	1636.11	1115	531.855											7.50	15.9
29/10/2010	498			3950	1967.1	1235	615.03											7.44	14.9
30/10/2010																			
31/10/2010																			
Average	**447.0**		**1014.2**		**1690.2**		**575.2**		**57.2**		**30.3**		**2.5**		**3.3**		**16.4**	**7.3**	**16.7**
# Tests	**20**		**4**		**16**		**16**		**4**		**4**		**4**		**4**		**4**	**16**	**16**
NCR	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Totals
108
0

DAWN MEATS PROCESS EFFLUENT ANALYSIS - IPPCL P01/9-01
(By Concentration and By Mass)

Month: November 2010

Date	Flow (675m3)	BOD (4000mg/l)	BOD (1350kg)	COD (7000 mg/l)	COD (2362kg)	SS (2000mg/l)	SS (675kg)	A (150mg/l)	A (67.5kg)	P (200mg/l)	P (47.25kg)	N (150mg/l)	N (67.5kg)	Det (20mg/l)	Det (13.5kg)	OFG (150mg/l)	OFG (101.2kg)	pH (6.0 8.5)	Temp (<42oC)	
01/11/2010	473			4440	2100.12	1275	603.075											6.89	11.41	
02/11/2010	509	3913	696.514	6320	1124.96	1884	335.352	121	21.538	147.5	26.255	25	4.45	6.675	1.1882	93.3	16.6074	7.30	16.0	
03/11/2010	178																			
04/11/2010	659			2930	1930.87	825	543.675											7.10	17.81	
05/11/2010	527			3740	1970.98	1090	574.43											6.88	12.13	
06/11/2010																				
07/11/2010																				
08/11/2010	448			4480	2007.04	1440	645.12											7.22	10.5	
09/11/2010	533																			
10/11/2010	124																			
11/11/2010	583			3580	2087.14	1020	594.66											7.30	10.6	
12/11/2010	537			4210	2260.77	1115	598.755											6.89	9.9	
13/11/2010																				
14/11/2010																				
15/11/2010	587	2,794	815.848	6650	1941.8	1405	410.26	65.8	19.2136	65.5	19.126	35	10.22	1	0.292	12.5	27.7	7.11	12.2	
16/11/2010	292																			
17/11/2010	638			3630	2315.94	925	590.15											7.10	17.7	
18/11/2010	574			3900	2238.6	1090	625.66											7.00	11.3	
19/11/2010	602			3580	2155.16	930	559.86											6.97	10.8	
20/11/2010																				
21/11/2010																				
22/11/2010	545		0	3560	2274.84	940	600.66	99.4	63.5166	42	26.838	1	0.639		0		0	7.04	13.4	
23/11/2010	639	3338	1008.076	5560	1679.12	1485	448.47		0		0		0	2.64	0.7973	25.4	7.6708	7.20	14.1	
24/11/2010	302																			
25/11/2010	639			3010	1923.39	875	559.125											7.30	11.7	
26/11/2010	445			5000	2225	1265	562.925											7.29	7.3	
27/11/2010																				
28/11/2010																				
29/11/2010	566			3720	2105.52	800	452.8											7.29	7.3	
30/11/2010	597			3080	1838.76	1085	647.745	71	0	39	0	6	0	0	2.27	0	25.5	7.6	11.4	17.06
Average			630.1		2010.6		550.2		20.9		14.4		3.1		0.9		15.5	7.1	12.1	**Totals**
# Tests	22		3		17		17		4		4		4		4		4	17	17	
NCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

DAWN MEATS PROCESS EFFLUENT ANALYSIS - IPPCL P0179-01
(By Concentration and By Mass)

Month: December 2010

Date	Flow (675m3)	BOD (4000mg/l)	BOD (1350kg)	COD (7000 mg/l)	COD (2362kg)	SS (2000mg/l)	SS (675kg)	A (150mg/l)	A (67.5kg)	P (200mg/l)	P (47.25kg)	N (150mg/l)	N (67.5kg)	Det (20mg/l)	Det (13.5kg)	OFG (150mg/l)	OFG (101.2kg)	pH (6.0 8.5)	Temp (<42oC)
01/12/2010	555	1678	983.308	3180	1863.48	575	336.95		0		0		0	0.93	0.545	88	51.568	7.4	9
02/12/2010	586																		
03/12/2010	304			3470	1054.88	1016	308.864											7.87	4.8
04/12/2010																			
05/12/2010																			
06/12/2010	440			3850	1694	1030	453.2											7.54	8.7
07/12/2010	623	2175	511.125	5760	1353.6	1300	305.5	76.2	17.907	48.5	11.3975	5	1.175	5.525	1.2984	123.6	29.046	7.20	10.6
08/12/2010	235																		
09/12/2010	483			4300	2076.9	1000	483											7.00	10.1
10/12/2010	433			4880	2113.04	1410	610.53											7.20	9.8
11/12/2010																			
12/12/2010																			
13/12/2010	572	2004	488.976	5030	1227.32	1980	483.12	80	19.52	66.5	16.226	10	2.44	4.15	1.0126	70.6	17.2264	7.56	10.2
14/12/2010	244																		
15/12/2010	627			3010	1887.27	860	539.22											7.10	13.3
16/12/2010	580			3930	2279.4	1070	620.6											7.40	13
17/12/2010	607			3030	1665	930	564.51											7.49	13
18/12/2010																			
19/12/2010																			
20/12/2010	557		0	3430	2009.98	1090	638.74	80	46.88	60	35.16	15	8.79	0	0	0	27.7	7.18	3.4
21/12/2010	586			3390	1855	1020	597.72											7.40	3.5
22/12/2010	550			4160	2288	1110	610.5											7.40	6.91
23/12/2010	450																		
24/12/2010																			
25/12/2010																			
26/12/2010																			
27/12/2010																			
28/12/2010																			
29/12/2010	578	0	0	3450	1994.1	1145	661.81	70	40.46	55	31.79	5	2.89	0	0	0	27.7	6.86	18.8
30/12/2010	578			3800	2196.4	1020	589.56											7.11	16.4
31/12/2010	382			5480	2093.36	1410	538.62											7.23	15
Average	**498.5**		**396.7**		**1853.2**		**521.4**		**25.0**		**18.9**		**3.1**		**0.6**		**30.6**	**7.3**	**10.4**
# Tests	**20**		**3**		**16**		**16**		**4**		**4**		**4**		**3**		**3**	**16**	**16**
NCR	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Totals
105
0

Record Sheet EVR08
Revision No 02
Issue Date: 07/03/06

Issued by: G Walsh
Approved by: C Coakley