rosderra
IRISH MEATS

Annual Environmental Report 2018

Rosderra Irish Meats, Roscrea.

Licence No. P0181-01

Reporting Period: 1st January 2018 – 31st December 2018

Date: 31st March 2019

Issued By: Brian Delaney - Environmental Manager

Approved By: Martin McHugh - Operations Manager

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Introduction

Company Name:	Rosderra Irish Meats Group
Site Address:	Carrig, Roscrea, Co. Tipperary
IPPC Licence No:	P0181-01
Issue Date:	31st March 2019
Issued To:	Environmental Protection Agency Operations Manager Environmental Manager
Issued By:	Brian Delaney Environmental Manager
Approved By:	Martin McHugh Operations Manager

Site Description

Rosderra Irish Meats Ltd. Was the first farmer co-operative factory built in Ireland in 1907. The company, known then as Roscrea Bacon Factory Ltd., operated at a site in Castle holding, Roscrea.

Avonmore Foods acquired the company in 1987 and in 1989 – 1990 operations were relocated to an industrial estate at the South West side of Roscrea (Irish Country Meats).

In 1998 the merger between Avonmore Plc. And Waterford Foods Plc. Took place and the joint company name became Glanbia Meats Ltd. During this, the IPPC licence was granted on the 12th June 1997.

Following a management buy-out in February 2008, the company changed its name to what is now Rosderra Irish Meats Group Ltd.

Rosderra Irish Meats Roscrea Pig slaughtering and processing facility has the capacity to slaughter 412 pigs per hour. Processing involves cutting and boning of product.

Products produced are sold in Ireland as both fresh and frozen and are also exported to Australia, Canada, USA, PRC, Korea, Japan, Philippines, Singapore, South Africa, Vietnam and Trinidad.

As manufacturers of food, quality and hygiene is vital to the daily running of the plant.

A full time Veterinary Officer is present during production.

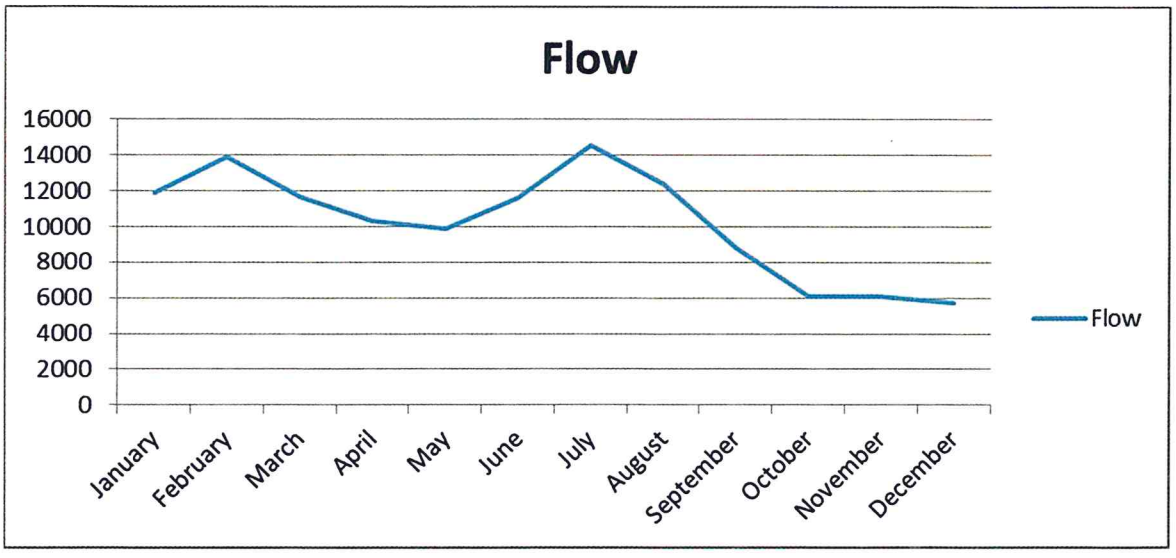
The plant is accredited with BRC and the Bord Bia Pig quality Assurance Scheme (BBPQAS).

Total employed at the plant is 400.

Emissions Data

Emissions to Sewer
Final Effluent Volumetric Flow

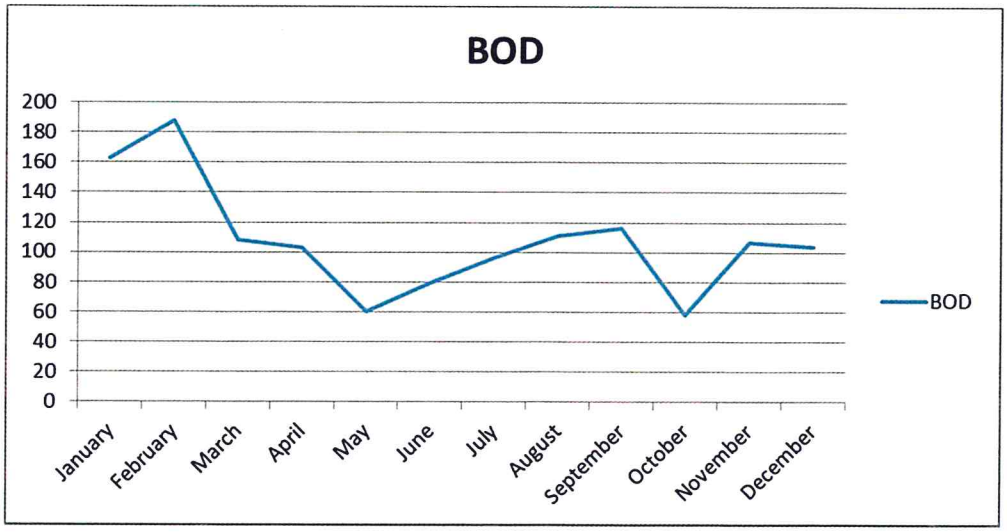
Month	M^3 per Month
January	11862
February	13871
March	11665
April	10315
May	9895
June	11568
July	14548
August	12360
September	8796
October	6107
November	6110
December	5754



Emissions Data

Emissions to Sewer
Biological Oxygen Demand

Month	Kg per Month
January	163
February	188
March	108
April	103
May	60
June	79
July	96
August	111
September	117
October	58
November	107
December	104
Total:	1294

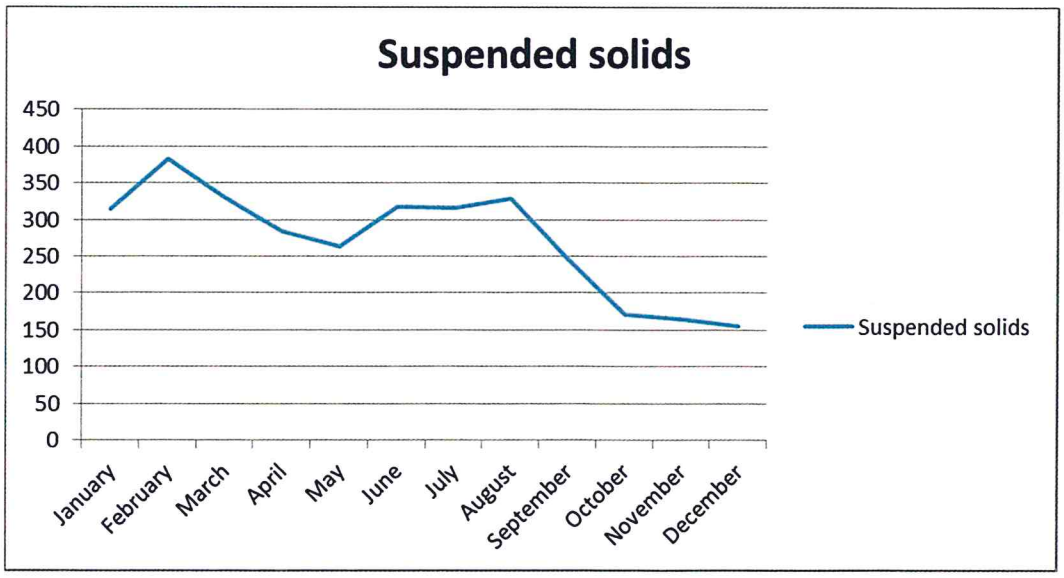


Emissions Data

Emissions to Sewer

Suspended Solids

Month	Kg per Month
January	315
February	382
March	331
April	285
May	263
June	317
July	316
August	329
September	247
October	172
November	165
December	155
Total:	3276

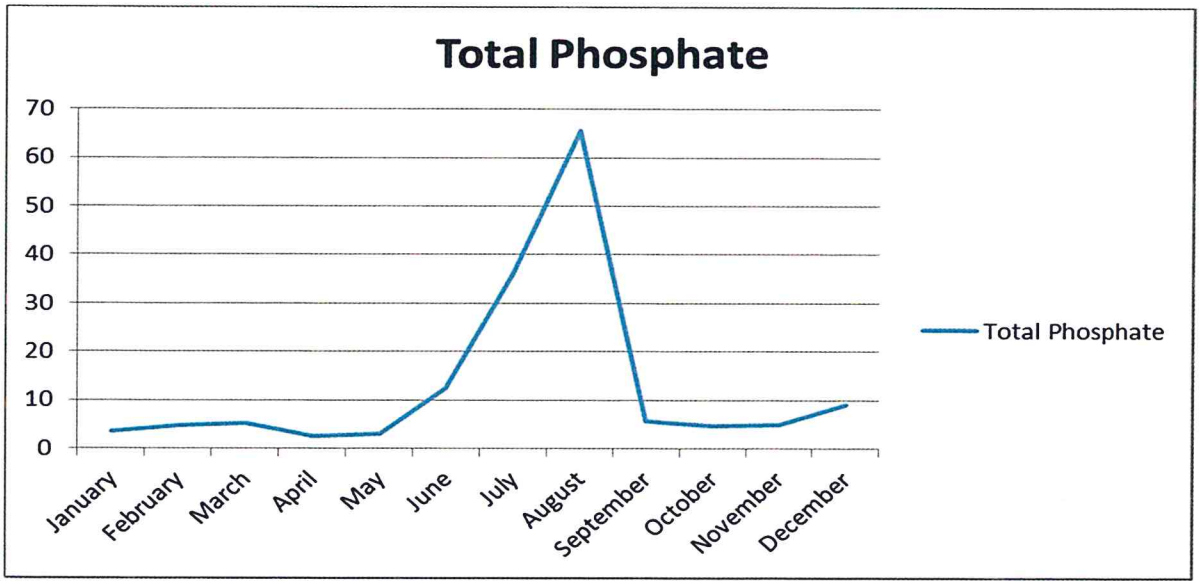


Emissions Data

Emissions to Sewer

Total Phosphates

Month	Kg per Month
January	3
February	5
March	5
April	3
May	3
June	12
July	36
August	66
September	6
October	5
November	5
December	9
Total:	157

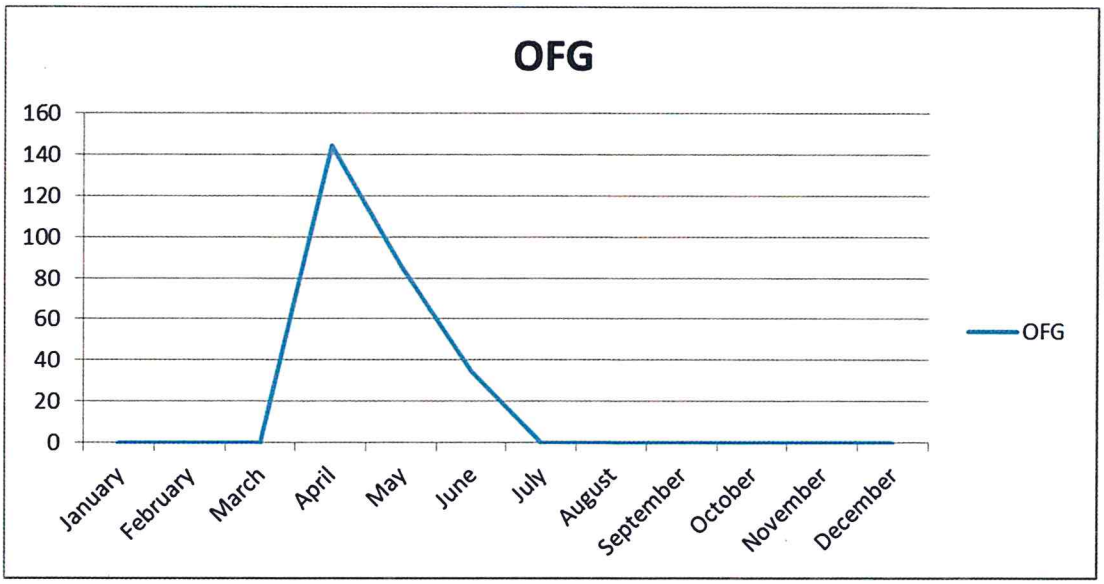


Emissions Data

Emissions to Sewer

Oils, Fats, and Greases

Month	Kg per Month
January	0
February	0
March	0
April	144
May	86
June	35
July	0
August	0
September	0
October	0
November	0
December	0
Total:	265

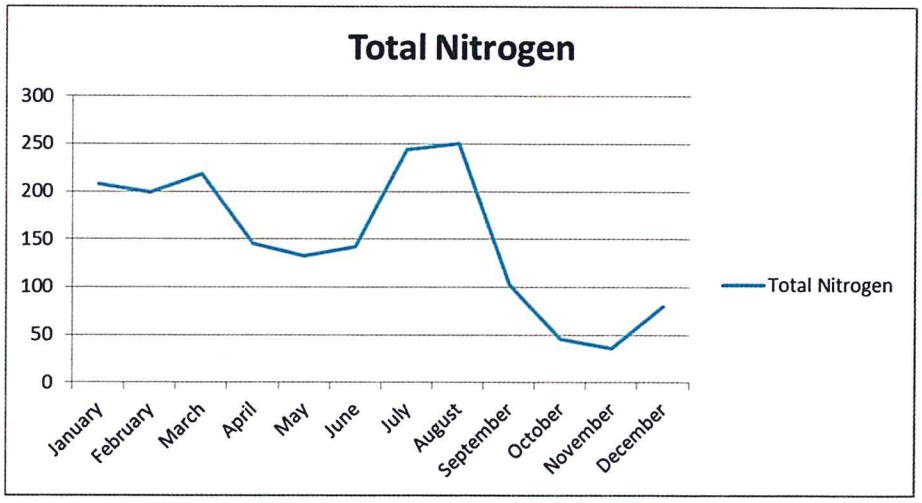


Emissions Data

Emissions to Sewer

Total Nitrogen

Month	Kg per Month
January	208
February	199
March	218
April	145
May	132
June	142
July	243
August	250
September	103
October	46
November	37
December	81
Total:	1803

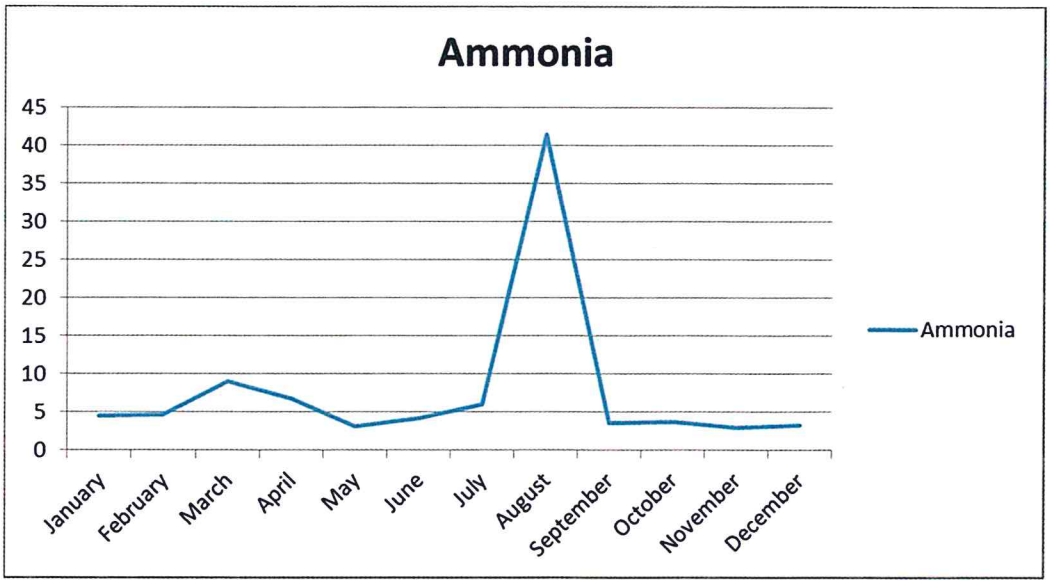


Emissions Data

Emissions to Sewer

Ammonia

Month	Kg per Month
January	5
February	5
March	9
April	7
May	3
June	4
July	6
August	41
September	4
October	4
November	3
December	3
Total:	94

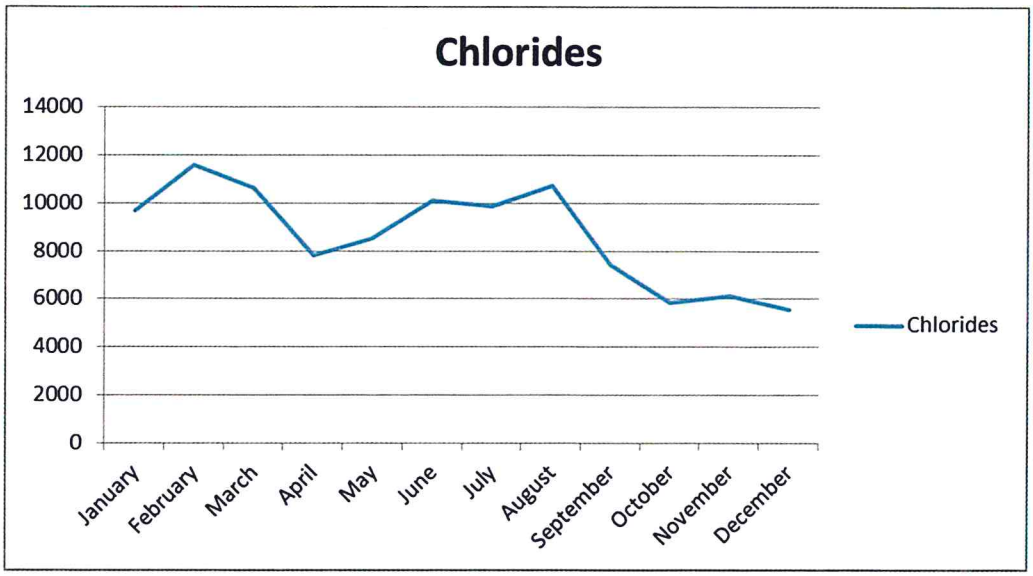


Emissions Data

Emissions to Sewer

Chlorides

Month	Kg per Month
January	9665
February	11579
March	10611
April	7824
May	8536
June	10104
July	9856
August	10748
September	7449
October	5845
November	6138
December	5564
Total:	103917



Emissions Data

Emissions to Surface Water

EW2	BOD	COD	Ammonia	Total Nitrogen	Conductivity
January	<4	20	0.43	2.9	472
February	<4	<10	0.31	2	513
March	---	---	---	---	---
April	---	---	---	---	---
May	---	---	---	---	---
June	2	12	0.47	3.5	964
July	5	28	0.9	5	1500
August	<4	24	0.8	5	1500
September	---	---	---	---	---
October	4	22	0.45	3.5	1030
November	5	24	0.46	5.1	930
December	<4	<10	0.54	5.2	636

*** - Denotes no sample at sampling point. No flow present.

Monitoring of the sample point was carried out daily. All visual inspections of the chamber reported clear for the year.

Continuous Monitoring:

Plant has continuous monitoring of EW1 final effluent.

Monitoring includes volumetric flow, temperature, pH and suspended solids.

Suspended solids probe controls the plants final divert system, once ELV is reached the plant automatically diverts.

Emissions Data

Waste / By – Product / Sludge Management

Now logged on Eden

Energy and Water Consumption Summary

Energy Usage for 2018

Energy	Value	Unit
Electricity Consumption	12663.2	MwHr
Oil Consumption	16.96	m^3
LPG Consumption	1544.58	m^3

Water Usage for 2018

Water	Value	Unit
Total Water Consumption	211,250	m^3
Well Provision	131,684	m^3
Public Supply	79,566	m^3
Private supply	62.34	%
Public Supply	37.66	%

Environmental Incidents, Compliance and Complaints

Incidents

Notification No: INCI013923

Uncontrolled release of solids from the Clarifier to Roscrea Local Municipal Plant due to PLC component failure.

Incident closed and system in place to prevent reoccurrence:

"The PLC is to be adapted to allow card faults to trigger an automatic divert and also a forward feed stop. This means that once there is an issue the plant reacts with a shutdown automatically to close off any possibility of a discharge breach. Personnel will still receive a text message and respond in a timely fashion 24/7 to resolve the issue."

Compliance

No compliance investigations were opened or active for the plant during 2018.

Complaints

No complaints were received for the plant during 2018.

Environmental Management

Energy / Resource Efficiency

We are actively working with external energy consultants to drive our thermal costs lower. We have a number of projects planned to reduce energy usage and increase efficiency:

- We have Increased our hot water storage capacity by 100M3 by adding a new Insulated tank this allows us to conserve energy on our Boiler & LPG
- We no longer need the boiler in the evenings to supplement Hot Water for Wash Down
- We have raised a PO for our Synger Flue head recovery project. This will involve fitting a new Bilfinger Unit and a shell & tube heat exchanger to heat our scald tank from recovered. This will further reduce our Boiler demand and LPG usage. The first meeting with Agility EM3 will start on 4th April. 2019.
- This project above will help us size our standby steam boiler based on remaining steam demand and be more efficient and eventually become our main boiler.
- In conjunction with this project we also hope to automate our hard and soft water to the Factory which will give us more control in reducing the council cold water demand to the Factory.
- In conjunction with Verde LED & SSE Airtricity, we propose to replace all lighting on site with LED lighting to reduce energy consumption and CO2 emissions. Estimated energy savings: 425,954 kWh estimated CO2 savings: 245,349Kg.

Increasing the Environmental Focus

We have increased environmental and energy awareness across the site in three key ways:

1. Our Origin Green notice board communicating our performance to all staff members
2. Daily environmental PIT meeting, as part of our Lean programme, with key supervisors to monitor/control water, electricity, etc. usage and maintain focus on key issues.
3. Weekly management and Environmental meetings to monitor overall performance and plan projects.

Investment in the Wastewater Treatment Plant

In October 2018 we replaced our muncher with a new improved model to prevent blockages at the inlet chamber and pipework, improving the performance of the treatment plant.

In December we refurbished our Snoek Step screen, improving its screening performance, reducing the loading of the treatment plant.

In 2019, we plan to install a backup to the WWTP wired LAN connection: We will install a High Power 2 X 2 Ubiquiti Nano Station Loco Mimo Air Max TDMA Station which will take over communications and maintain control of the WWTP automated operation in the event of our Hard wire LAN connection linking the factory to the WWTP breaking.

In 2018 we undertook the three yearly Bund Inspection, by Panther Environmental.

In 2019 we will undertake our three yearly inspection/integrity test of the sites drainage system.

Investment in Safety Structures/Systems for WWTP Roscrea:

In May/june 2018, we erected fencing & gates (by FRS) to enclose the entire WWTP, restricting access only to authorised/qualified personnel.

As part of our lean programme we carry out regular GEMBA and safety walks highliting ways in which we can improve our safety systems,this has included, for 2018: repairing guard rails on the daf and aeration tanks, additional life buoys, hose hooks to reduce trip hazards.

We have introduced 5S standards in the wwtp plant room, recycling area, chemical store and will eventually have a standard in every area of the plant to increase efficiniency, cleanliness, safety, etc.

PRTR Returns

Now logged on Eden

Details of transferred waste

In this section, enter details of all wastes generated at your facility during the reporting year, which were then transferred offsite for recovery or disposal.

List of Waste code	Description	Hazardous?	
02 02 02	animal-tissue waste	No	Change

Respondent's description of transferred waste

Porcine Blood

Quantity of transferred waste (Tonnes/year)

3,534.0000

Method code

M

Method classification

WEIGH

Further details

Waste Treatment Operation (Next Destination)

Waste treatment operation (recovery / disposal code and description) at next destination

R03

Waste treatment type

Other recycling or reclamation of organic substances which are not used as solvents (to end-of-waste)

Respondent's description of waste treatment operation at next destination

Processing porcine blood for the manufacture of spray dried animal blood products – functional proteins.

Next Destination Details

Next Destination Facility

APC - Regal Processors Ltd

Next Destination Permit Number

REN/241/89

Next Destination Address

APC - Regal Processors Ltd
2 Silverwood Industrial Estate
Craigavon
Craigavon
Armagh
Ireland
BT66 6LN

+ Edit Next Destination Details

Details of transferred waste

In this section, enter details of all wastes generated at your facility during the reporting year, which were then transferred offsite for recovery or disposal.

List of Waste code	Description	Hazardous?	
15 01 01	paper and cardboard packaging	No	Change

Respondent's description of transferred waste

Cardboard packaging

Quantity of transferred waste (Tonnes/year)

47.2400

Method code

M

Method classification

WEIGH

Further details

Waste Treatment Operation (Next Destination)

Waste treatment operation (recovery / disposal code and description) at next destination

R05

Waste treatment type

Preparing for reuse of inorganic materials

Respondent's description of waste treatment operation at next destination

Cardboard recyling

Next Destination Details

Next Destination Facility

Greyhound Recycling & Recovery - W0205

Next Destination Permit Number

W0205

Next Destination Address

Crag Avenue
Clondalkin Industrial Estate
Clondalkin
Dublin 22
Dublin
Ireland

+ Edit Next Destination Details

Details of transferred waste

In this section, enter details of all wastes generated at your facility during the reporting year, which were then transferred offsite for recovery or disposal.

List of Waste code	Description	Hazardous?	
02 02 02	animal-tissue waste	No	Change

Respondent's description of transferred waste

Category Two waste: condemmned carcasses, waste contaminated with abcess or faecal material.

Quantity of transferred waste (Tonnes/year)

4,940,640.0000

Method code

M

Method classification

WEIGH

Further details

Waste Treatment Operation (Next Destination)

Waste treatment operation (recovery / disposal code and description) at next destination

R03

Waste treatment type

Other recycling or reclamation of organic substances which are not used as solvents (to end-of-waste)

Respondent's description of waste treatment operation at next destination

Render fat from ABP for oleo chemical purposes, Bone meal for incineration

Next Destination Details

Next Destination Facility

Anglo Beef Processors Ireland Unlimited Company t/a ABP Proteins Waterford - P0040

Next Destination Permit Number

P0040

Next Destination Address

Christendom
Ferrybank
Waterford

Waterford
Ireland

+ Edit Next Destination Details

Details of transferred waste

In this section, enter details of all wastes generated at your facility during the reporting year, which were then transferred offsite for recovery or disposal.

List of Waste code	Description	Hazardous?	
02 02 02	animal-tissue waste	No	Change

Respondent's description of transferred waste

Category 3 waste, e.g. floor waste, flare fat, etc

Quantity of transferred waste (Tonnes/year)

6,135,089.3400

Method code

M

Method classification

WEIGH

Further details

Waste Treatment Operation (Next Destination)

Waste treatment operation (recovery / disposal code and description) at next destination

R03

Waste treatment type

Preparing for reuse of organic substances

Respondent's description of waste treatment operation at next destination

Render fat from ABP for oleo chemical purposes, processed animal protein

Next Destination Details

Next Destination Facility

Anglo Beef Processors Ireland Unlimited Company t/a ABP Proteins Cahir - P0039

Next Destination Permit Number

P0039

Next Destination Address

Kilcommon
Cahir

Tipperary
Ireland

+ Edit Next Destination Details

Details of transferred waste

In this section, enter details of all wastes generated at your facility during the reporting year, which were then transferred offsite for recovery or disposal.

List of Waste code	Description	Hazardous?	
20 01 39	Plastics	No	Change

Respondent's description of transferred waste

bROKEN HARD PLASTIC - DOLAVS, TRAYS, ETC

Quantity of transferred waste (Tonnes/year)

2.4600

Method code

M

Method classification

WEIGH

Further details

Waste Treatment Operation (Next Destination)

Waste treatment operation (recovery / disposal code and description) at next destination

R05

Waste treatment type

Preparing for reuse of inorganic materials

Respondent's description of waste treatment operation at next destination

Pre-processing, Recovery of waste, storage of plastic waste

Next Destination Details

Next Destination Facility

Leinster Environmentals

Next Destination Permit Number

WFP-LH-11-0002-02

Next Destination Address

Leinster Environmentals
Clermont Business Park,
Haggardstown,
Dundalk,
Louth
Ireland
A91 HPK7

+ Edit Next Destination Details

In this section, enter details of all wastes generated at your facility during the reporting year, which were then transferred offsite for recovery or disposal.

List of Waste code	Description	Hazardous?	
20 01 39	Plastics	No	Change

Respondent's description of transferred waste

broken dolavs, trays, drums

Quantity of transferred waste (Tonnes/year)

4.9800

Method code

M

Method classification

WEIGH

Further details

Waste Treatment Operation (Next Destination)

Waste treatment operation (recovery / disposal code and description) at next destination

R05

Waste treatment type

Preparing for reuse of inorganic materials

Respondent's description of waste treatment operation at next destination

R05

Waste treatment type

Preparing for reuse of inorganic materials

Respondent's description of waste treatment operation at next destination

Pre-processing, Recovery of waste, storage of plastic waste

Next Destination Details

Next Destination Facility

Envirogreen Recycling

Next Destination Permit Number

WMEX 03/68

Next Destination Address

The dean swift building
Armagh Business Park
50 Hamiltonsbawn Road
Armagh
Armagh
Ireland
BT60 1DL

+ Edit Next Destination Details

Details of transferred waste

In this section, enter details of all wastes generated at your facility during the reporting year, which were then transferred offsite for recovery or disposal.

List of Waste code	Description	Hazardous?	
16 05 06*	laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals	Yes	Change

Respondent's description of transferred waste

Waste chemiclal vials - Reagacon COD, Hach -Total Phosphate, Reactive Phosphate, Ammonia, Total Nitrogen

Quantity of transferred waste (Tonnes/year)

0.2130

Method code

M

Method classification

WEIGH

Further details

Is final destination abroad (outside of the Republic of Ireland)?

No

Waste Treatment Operation (Next Destination)

Waste treatment operation (recovery / disposal code and description) at next destination

R06

Waste treatment type

Regeneration of acids or bases

Respondent's description of waste treatment operation at next destination

Boilogical/Physial/Chemical waste treatment, storage of waste

Next Destination Details

Next Destination Facility

Enva Ireland Limited (Shannon) - W0041

Next Destination Permit Number

W0041

Next Destination Address

Smithstown Industrial Estate
Shannon

Clare
Ireland

+ Edit Next Destination Details

Details of transferred waste

In this section, enter details of all wastes generated at your facility during the reporting year, which were then transferred offsite for recovery or disposal.

List of Waste code	Description	Hazardous?	
20 03 01 B	Municipal mixed residual non-household	No	Change

Respondent's description of transferred waste

mIXED GENERAL WASTE FROM SITE ACTIVITIES: Non recyclable plastic, label backing, various ppc (hairnets, beard masks, footwear) hand towels, canteen

Quantity of transferred waste (Tonnes/year)

179.6200

Method code

M

Method classification

WEIGH

Further details

Waste Treatment Operation (Next Destination)

Waste treatment operation (recovery / disposal code and description) at next destination

R11

Waste treatment type

Use of waste obtained from any of the operations numbered R 1 to R 10

Respondent's description of waste treatment operation at next destination

All mixed municipal waste is either processed and baled as RDF (refuse derived fuel) and exported or sent to Covanta for incineration. During the process all r

Next Destination Details

Next Destination Facility

Greyhound Recycling & Recovery - W0205

Next Destination Permit Number

W0205

Next Destination Address

Crag Avenue
Clondalkin Industrial Estate
Clondalkin
Dublin 22
Dublin
Ireland

+ Edit Next Destination Details

Details of transferred waste

In this section, enter details of all wastes generated at your facility during the reporting year, which were then transferred offsite for recovery or disposal.

List of Waste code	Description	Hazardous?	
13 02 08*	other engine, gear and lubricating oils	Yes	Change

Respondent's description of transferred waste

Waste Oil

Quantity of transferred waste (Tonnes/year)

2.0000

Method code

M

Method classification

WEIGH

Further details

Is final destination abroad (outside of the Republic of Ireland)?

No

Waste Treatment Operation (Next Destination)

Waste treatment operation (recovery / disposal code and description) at next destination

R09

Waste treatment type

Oil re-refining or other reuses of oil

Respondent's description of waste treatment operation at next destination

Refine and reuse waste oils, recover waste oil filters, treat oily solid wastes and treat/bio-remediate contaminated soils

Next Destination Details

Next Destination Facility

Enva Ireland Limited (Portlaoise) - W0184

Next Destination Permit Number

W0184

Next Destination Address

Clonminam Industrial Estate
Portlaoise

Laois
Ireland

+ Edit Next Destination Details

Details of transferred waste

In this section, enter details of all wastes generated at your facility during the reporting year, which were then transferred offsite for recovery or disposal.

List of Waste code	Description	Hazardous?	
20 01 01	paper and cardboard	No	Change

Respondent's description of transferred waste

Paper (site documentation - shredded on-site)

Quantity of transferred waste (Tonnes/year)

9.6139

Method code

M

Method classification

WEIGH

Further details

Waste Treatment Operation (Next Destination)

Waste treatment operation (recovery / disposal code and description) at next destination

R05

Waste treatment type

Preparing for reuse of inorganic materials

Respondent's description of waste treatment operation at next destination

Shredding, baling and temporary storage of waste paper

Next Destination Details

Next Destination Facility

Shred-It ROI Limited

Next Destination Permit Number

WFP-DS-17-0002-02

Next Destination Address

Unit 6A
Westgate Business Park,
Ballymount,
Dublin
Tipperary
Ireland
D24 WFK5

+ Edit Next Destination Details

reporting year, which were then transferred offsite for recovery or disposal.

Waste Generated → Onsite Treatment → **Waste Transferred Offsite**

List of Waste code	Description	Hazardous?	
02 01 10	waste metal	No	Change

Respondent's description of transferred waste

Mixed scrap metal generated onsite, rusted metal, old motors, drinking cans, etc

Quantity of transferred waste (Tonnes/year)

11.1200

Method code

M

Method classification	Further details
WEIGH	

Waste Treatment Operation (Next Destination)

Waste treatment operation (recovery / disposal code and description) at next destination

R04

Waste treatment type

Metal and metal component recycling or reclamation (to end-of-waste)

Respondent's description of waste treatment operation at next destination

scrap metal recycling/processing

Next Destination Details

Next Destination Facility

Galway Metal Company Limited - P1006

Next Destination Permit Number

P1006

Next Destination Address

Carrowmoneash
Oranmore

Galway
Ireland
H91V96X

+ Edit Next Destination Details

Details of transferred waste

In this section, enter details of all wastes generated at your facility during the reporting year, which were then transferred offsite for recovery or disposal.

List of Waste code	Description	Hazardous?	
02 02 04	sludges from on-site effluent treatment	No	Change

Respondent's description of transferred waste

Sludge generated by the waste water teatment plant - daf sludge, waste activated sludge, sludge cake from a centrifuge. Solid cake and liquid sludge.

Quantity of transferred waste (Tonnes/year)

3,694.1680

Sludge dry weight - if known (Tonnes/year)

Method code

M

Method classification

WEIGH

Further details

Waste Treatment Operation (Next Destination)

Waste treatment operation (recovery / disposal code and description) at next destination

R10

Waste treatment type

Land treatment resulting in benefit to agriculture or ecological improvement

Respondent's description of waste treatment operation at next destination

Land spreading sludge as organic fertiliser on farmlands, according to a nutrient management plan approved by EPA

Next Destination Details

Next Destination Facility

KCD FRS Society Ltd

Next Destination Permit Number

WCP-OY-05-365-02

Next Destination Address

KCD FRS Society Ltd
Cillin Hill
Dublin Road
Kilkenny
Kilkenny
Ireland
R95 C8YT

+ Edit Next Destination Details