

ANNUAL ENVIRONMENTAL REPORT

2016

License Register no. P0447-01

Licensee: James McGrath

Location of Activity: Ashleigh House, Ballinameela,
Cappagh, Co. Waterford.

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1. AER/PRTR spreadsheets

Animal Type	IPC Reg stock numbers	Actual stock number 2013	Actual Stock numbers 2014	Actual Stock numbers 2015	Actual Stock numbers 2016
Suckling Sows	199	194	194	195	194
Dry Sows	701	693	695	695	692
Boars	20	6	6	5	5
Maiden Gilts	65	96	94	96	95
Weaners	3100	3070	3061	3067	3028
Finishers	4500	4386	4262	4273	4269

TABLE 1: Average stock numbers

3. Summary Information

During 2015, 7955 tonnes of animal feed was utilized on site, along with an estimated 24801 M3 of water, in the production of pig meat. 500 Litres heating oil, and 616494 units of electricity, were also utilized in the process.

Unit	2006	2007	2008	2009	2010	2011	2012
Animal feed Tonnes	5170	6100	5640	4965	6975	7377	7449
Heating oil Litres	21275	23910	31000	42000	13000	500	1000
Electricity Units	196757	192338	194547	193447	193850	590913	599452
Water M3	24670	20356	20504	22784	20946	27756	25000

3.2 Pig manure spreading register

The pig manure produced on this site is utilized as fertilizer on agricultural crops, in accordance with nutrient requirements, and therefore is not waste, as determined by the European court of justice. A pig manure register is maintained on site and is available for inspection during normal working hours. The manure register records all deliveries of pig manure to customer farmers during 2016 and amounts to 19799 M3. A copy of the register (record 3) for 2016 has been sent to the department of agriculture and is also available on site.

3.3 Waste not destined for land spreading

The waste management records for waste not destined for land spreading are recorded on site and available for inspection during normal working hours. These include the register for pig carcasses, refuse, and veterinary waste, and the total volumes removed off site are set out below in Table 4.

Waste type	Pig carcasses	Veterinary waste	Paper & Cardboard	Fluorescent tubes
EWC code	02 01 02	18 02 01	20 03 01	20 01 21
2006	60.22TN	2KG	0.52TN	25
2007	55.45TN	4KG	3.18TN	25
2008	57.40TN	5KG	0.42TN	28
2009	53.90TN	2KG	0.74TN	36
2010	53.38TN	4KG	1.54TN	35
2011	56.27TN	2KG	0.62TN	40
2012	57.99TN	2KG	0.40TN	28
2013	48.33TN	2KG	0.49TN	12
2014	52.20TN	2KG	0.75TN	20
2015	51.93TN	2KG	0.464TN	16
2016	54.07TN	2KG	0.760TN	31

TABLE 4: Summary of waste volume exported.

3.4 Environmental incidents and complaints

There were no incidents or complaints regarding this facility in the reporting period.

3.5 Self monitoring data

1. Surface water monitoring

The surface water monitoring points are visually inspected weekly and sampled quarterly. Table 5 below outlines the results of surface water discharge analyses.

Year	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
2006 (COD mg/l)	53	0	26	7
2007 (COD mg/l)	53	0	26	7
2008 (COD mg/l)	19.8	21	<1	<1
2009 (COD mg/l)	<1.0	9	<1	<1.0
2010 (COD mg/l)	<1	20	Dry	<1
2011 (COD mg/l)	8	<1	12	3
2012 (COD mg/l)	25	11	1	3
2013 (COD mg/l)	<1	23	Dry	1
2014 (COD mg/l)	6	11	DRY	<1
2015 (COD mg/l)	<1	DRY	<1	<3
2016 (COD mg/l)	<1	11	7	6

Table 5: Surface water discharge analyses results (2006-2016)

2. Ground water monitoring

There are two wells located adjacent to this site, which are sampled annually. A third well was installed in 2013 as part of our tank and pipeline testing and this is also sampled annually. Table 6 outlines the results of these analyses to date.

Location	Date	Total Ammonia (mg/l NH3-N)	Nitrate (mg/l NO3-N)	Faecal Coliforms (MPN/100mls)
W1	21-04-08	0.03	12.6	0
W2		0.03	13	0
W1	07-04-09	0.03	9.4	0
W2		0.05	9.2	0
W1	01-11-10	0.26	9.2	0
W2		1.5	9.2	0
W1	13-04-11	1.30	10.3	0
W2		1.00	10.1	0
W1	15-08-12	0.08	10.9	0
W2		0.05	11.1	0
W1	13-06-13	0.03	9.8	0
W2		0.05	9.8	0
W1	24-03-14	0.0	16.8	0
W2		0.25	8.7	0
W3		0.03	12.8	0
W1	21-04-15	<0.1	17.0	0
W2		<0.1	13.6	0
W3		<0.1	7.8	0
W1	22-11-16	0.03	9.5	0
W2		<0.1	9.2	0
W3		0.02	5.9	0

Table 6: Groundwater monitoring results (2008-2016)

4. Management of the activity

4.1 Corrective action Procedures

A copy of the corrective action procedure for this site is available for inspection on site.

4.2 Awareness and training programme

A copy of the awareness and training programme for this site is available for inspection on site.

4.3 Communications

A copy of the public information programme for this site is available for inspection on site.

4.4 Vermin control

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

5. Tank and pipeline testing and inspection report

The leak detection inspection chambers under the Dry Sow house, Gilt house and farrowing house is inspected monthly and records of these inspections are maintained on site. A tank and pipeline proposal was submitted to the agency in July 2007, this proposal detailed an investigated with a view towards using hydrogeological investigations and/or geophysical surveys to determine the best method for future tank and pipeline testing. On the 30th of April 2013 a site investigation was carried out by IE Consultants. It was proposed to install an additional down gradient monitoring borehole at the site. This borehole was installed in January 2014 and is been tested annually.

ATTACHMENT

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4.1 RELEASES TO AIR

SECTION A: RELEASES FROM POLLUTANTS		QUANTITIES TO REPORT		METHOD		EMISSION FACTORS		QUANTITY	
Eq. Source No.	POLLUTANT	MISC	Method Code	Method Used	Eq. Source No.	Method Code	Method Used	Total, kg/Year	Total, kg/Year
01	Ammonia (NH3)	C	NHE	NHE	17865.0			17865.0	0.0
02	Methane (CH4)	C	NHE	NHE	10487.0			10487.0	0.0
03	Nitrous Oxide (N2O)	C	NHE	NHE	112.1			112.1	0.0

SECTION B: RELEASES FROM POLLUTANTS		QUANTITIES TO REPORT		METHOD		EMISSION FACTORS		QUANTITY	
Eq. Source No.	POLLUTANT	MISC	Method Code	Method Used	Eq. Source No.	Method Code	Method Used	Total, kg/Year	Total, kg/Year
01	Ammonia (NH3)	C	NHE	NHE	112.1			112.1	0.0

SECTION C: INCLUDING POLLUTANT EMISSIONS NOT REQUIRED IN YOUR LICENSE		QUANTITIES TO REPORT		METHOD		EMISSION FACTORS		QUANTITY	
Eq. Source No.	POLLUTANT	MISC	Method Code	Method Used	Eq. Source No.	Method Code	Method Used	Total, kg/Year	Total, kg/Year
01	Ammonia (NH3)	C	NHE	NHE	112.1			112.1	0.0

Additional Data Requested from Landfill operators

For the purpose of the reporting, the following information is required to be reported for each landfill site. Please provide the following information for each landfill site. Please provide the following information for each landfill site.

Landfill	Total methane released (in metric tons)	Total methane released (in metric tons)	Total methane released (in metric tons)	Facility Year Capacity and
	1 (Overall kg/Year)	MISC	Method Code	Description of
MI - James O'Sullivan Landfill	0.00			per hour
	0.00			NA
	0.00			0.0 (Year - long Capacity)
	0.00			0.0 (Year - long Capacity)

3. CDSITE, PREWORKERY & OFFSITE TREATERS OF WASTE
 Please enter all quantities on this sheet in **Comet**

Transfer/ Destination	EPA Region/ WQM Code	Material	Quantity (Comet per Year)	Description of Waste	Volume (Comet)	Material Used		Location of Treatment	USEPA Waste Stream ID (Use the Waste Stream ID from the Waste Stream ID Manual)	FACILITY NAME (City, County, State)	Address (City, State, Zip)	Equalization of the Effluent (14 CFR Section 7.103(a)(2) - HAZARDOUS WASTE UNIT)
						Material	Method					
Winnemucca County - 01 01 22	Mc	Mc	10.2	apex/blast waste	210	M	Winnemucca	Offsite in Nevada	Winnemucca Regional WWT	Winnemucca, Nevada		
Winnemucca County - 20 03 21	Wc	Wc	0.78	blast municipal wastes	183	M	Winnemucca	Offsite in Nevada	Winnemucca Regional WWT	Winnemucca, Nevada		