

ANNUAL ENVIRONMENTAL REPORT

**JANUARY 2016
TO
DECEMBER 2016**

Licence Number: W0270-01

Licensee: Miltown Composting Systems Ltd

Location of Activity: Milltownmore
Fethard
Co. Tipperary

Attention: Office of Environmental Enforcement
EPA Regional Inspectorate Kilkenny
Seville Lodge
Callan Road
Kilkenny

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SECTION 1

INTRODUCTION

1.1 INTRODUCTION

The following is the Annual Environmental Report (AER) for the period January 2016 to December 2016 at Miltown Composting Ltd.

The company was granted an EPA Waste Licence No. W0270-01 on the 9th September 2010. This is the 2016 Annual Environmental Report of Miltown Composting Ltd and detailed within is a summary of all activities on-site during this period that has had an influence on the environmental performance of the company. Current guidance from the Agency requires that the AER is referenced per calendar year.

This AER reflects company's commitment to achieving objectives of a documented ongoing improvement programme at the site.

1.2 SITE DESCRIPTION

Site Location

The site is located in the townland of Milltownmore, approximately 6 km to the east of Fethard and 10 km to the south west of Cashel. The site is accessed by a private road off the Rosegreen to Fethard third class public road.

Layout

The site encompasses approximately 5.9 hectares. It is at an elevation of approximately 139m Ordnance Datum (OD) and slopes gently to the west from a high point in the east.

It is occupied by the three main composting buildings-Sheds 1, 2 and 3- a covered yard, and paved open yards; weighbridge, office; canteen/changing room; storage shed; wetlands, biofilter and former cattle sheds. The base for a proposed lined slurry storage lagoon is located to the west of the cattle sheds and is currently used to store building materials. The area to the north of the shed is undeveloped and formerly used for animal grazing. The rest is a series of constructed wetlands in the south west of the site.

Site History

The site was originally used for agricultural purposes. The cattle sheds and Shed 1 were originally constructed to house pigs, cattle, meat and bone meal and animal feed. In 2004 South Tipperary County Council granted planning permission and a Waste Permit for composting (in-vessel and maturation) to be carried out in Shed 1.

The Council issued a revised Waste Permit in May 2008 and this is valid until May 2015. In March 2009 the Council granted planning permission for the retention of the offices, canteen/changing room, underground leachate storage tanks, and weighbridge.

Operational & Waste Acceptance Hours

The normal operational hours are 06.00 to 18.00 Monday to Saturday. Materials are accepted between the hours of 08.00 and 18.00.

1.2.1 DESCRIPTION OF ACTIVITY

Overview

The facility is a composting plant that accepts a broad range of compostable materials including source segregated household kitchen waste; catering wastes; non-hazardous industrial and municipal waste water sludges and organic fines generated in the treatment of mixed municipal solid waste (MSW).

The treatment process, depending on the nature of the source material, can involve initial screening to remove contaminants, blending with bulking agents, composting in separate enclosed tunnels and open bays, maturation in windrows and post treatment to remove impurities.

Due to the modular lay-out, the tunnels/bays can be operated independently, which provides flexibility in treating the different organic waste streams. The finished product can, depending on quality, either be used for horticultural and agricultural purposes, or as landfill cover.

Site Layout/Buildings & Hardstanding

Waste reception, blending and in-vessel composting is carried out in Shed No 1, which occupies an area of 1,700 square meters (m²). Maturation is carried out in Sheds 2 and 3, which occupy 2,840 m².

The site office is a portacabin located at the north-west corner of Shed 1. A small canteen/changing room is located to the south west of Shed 1. There is an open fronted shed to the west of the canteen, which is used for the storage of green waste bulking materials and shredded wood. A Container located at the northern side of the canteen is used to store lubricating/hydraulic oil and the power washer.

The covered yard to the east of Shed 1 and the open yards to the west of Shed 1 and west of the cattle sheds are paved with concrete. The biofilter is located on the southern side of Shed 1 and is accessed by an unpaved road running along the southern side of Sheds 1 and 2.

Composting Process

Waste Reception Areas

In the reception area, the MSW fines may, depending on composition be shredded to enhance the composting process. The source segregated household and catering organic waste may be screened to remove contaminants. The wastewater treatment sludges are mixed with a bulking agent e.g. shredded green waste to improve porosity.

Thermophilic Stage

The materials are transferred from the reception area to the vessels using the telescopic loaders. The material placed in each of the vessels is assigned an individual batch number to allow performance monitoring during the treatment stages and ensure the maintenance of accurate records.

Five (5 No.) temperature probes are placed within the waste mass before the sheeting is placed over the top of the vessel. There is a computerised process control system, located in the site office, which records the temperature in each vessel to ensure that optimum composting conditions are maintained. In addition to the constant temperature monitoring, oxygen levels are monitored daily using a hand held probe. The moisture level is assessed either visually or using a hand held moisture meter. In order to comply with the Animal By-Products Regulations a 'two barrier' system is operated in the MSW/kitchen/catering waste processing area. The objective is to ensure a maximum particle size of 40mm and achieve a sustained temperature of 60°C over two separate 48 hour periods.

The MSW fines as delivered typically have a particle size less than 40mm. Large items are manually removed before the materials are composted. Maintaining the temperature at 60°C for the two separate time periods is done by composting the same batch in two different vessels.

In the first vessel, or Barrier 1, the process usually takes one week. When completed, the material is removed to a second vessel-Barrier 2-where it is thoroughly mixed and again composted until the temperature requirements are met. To avoid cross contamination different loaders and buckets are used to move the materials into and out of the vessels.

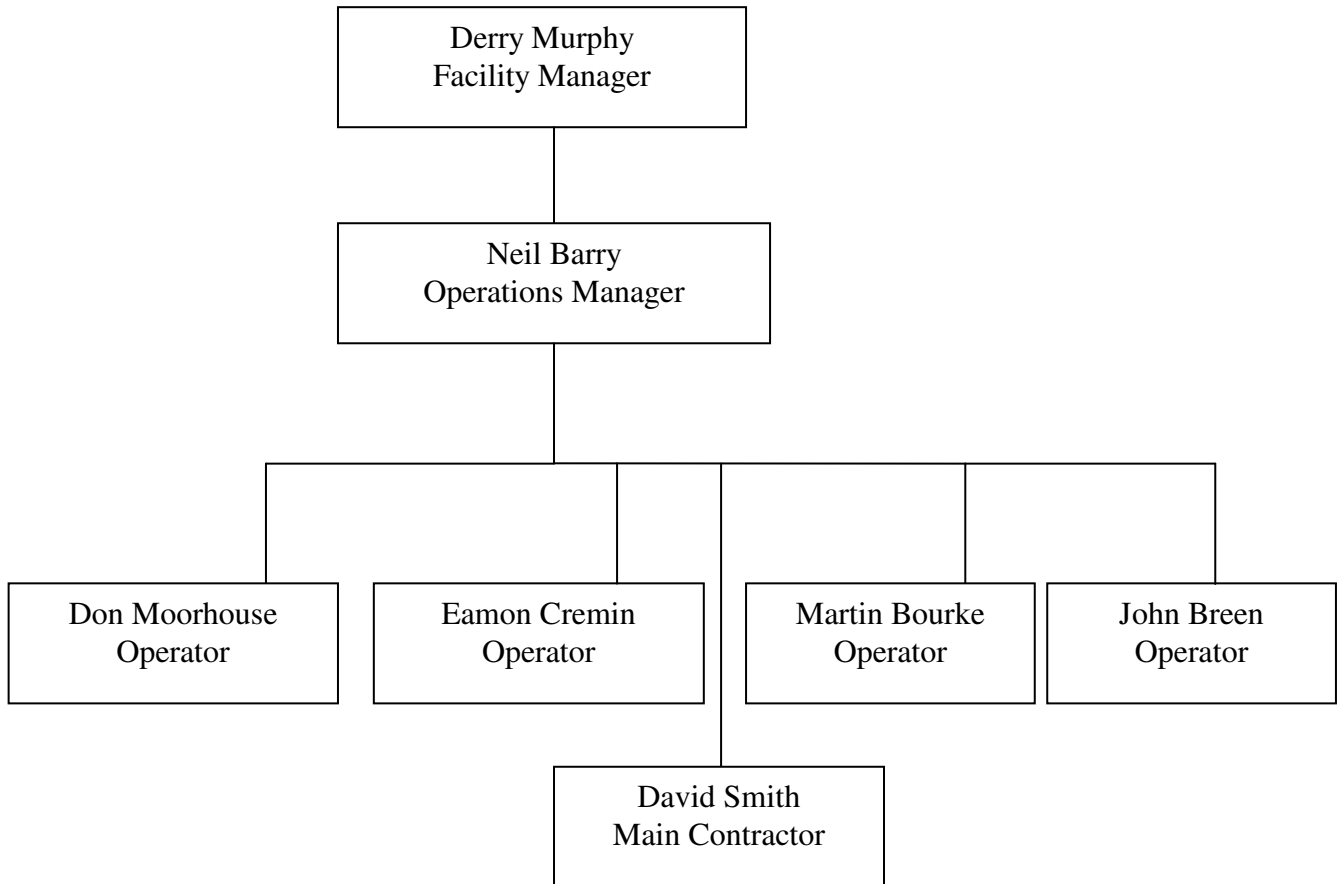
Mesophilic Stage

When the material has completed the thermophilic stage it is removed from the vessel and transferred to Sheds 2 and 3 where it is formed into windrows. Depending on the source of the materials it may be blended with shredded green waste to improve porosity. The windrows are formed using the loader and are turned as required using either the specialized turner or the loader.

Temperature, oxygen and moisture content are regularly monitored and moisture and the turning regime amended as required to ensure optimum conditions. The mesophilic stage can take up to 6 weeks.

When complete the compost may, depending on the nature of the source material, be screened to remove contaminants. These are stored on-site in Shed 3 pending consignment to off-site disposal/treatment facilities.

1.2.2 Organisational Chart 2016



Section 2

DATA

2.1 WASTE MANAGEMENT**TABLE 2.1.1 – ANNUAL WASTE INTAKE 2016**

Waste Type	EWC Code	2016 Intake Tonnes
Waste from the mechanical treatment of wood waste	19 12 07	223.18
Garden and park waste from municipal sources	20 02 01	652.68
Organic Fines	19 12 12	23621.15

2.2 ENVIRONMENTAL MONITORING

2.2.1 Groundwater Results 2016

Table 2.2.1 / 2 – Groundwater Analysis Results 2016

2.2.1 GENERAL CHEMICAL ANALYSIS RESULTS			
Parameter	GW1	GW2	GW3
Chloride (mg/l)	70	97	34
Conductivity (uS/cm)	611	857	299
Nitrate (mg/l)	2.94	0.38	7.09
pH	6.8	6.6	6.4
Total Nitrogen (mg/l)	2.2	<1	8.0
Ammonia (mg/l)	0.036	0.071	0.013

TABLE 2.2.2 - VOC ANALYSIS USEPA 524.2			
VOC's (µg/l)	GW1	GW2	GW3
Dichlorodifluoromethane	<10	<10	<10
Chloromethane	<0.5	<0.5	<0.5
Vinyl chloride	<0.5	<0.5	<0.5
Bromomethane	<0.5	<0.5	<0.5
Chloroethane	<0.5	<0.5	<0.5
Trichlorofluoromethane	<0.5	<0.5	<0.5
1,1-Dichloroethene	<0.5	<0.5	<0.5
Dichloromethane	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	<0.5	<0.5	<0.5
1,1-Dichloroethane	<0.5	<0.5	<0.5
2,2-Dichloropropane	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	<0.5	<0.5	<0.5
Bromochloromethane	<0.5	<0.5	<0.5
Chloroform	<1	<1	<1
1,1,1-Trichloroethane	<0.5	<0.5	<0.5
Carbon Tetrachloride	<0.5	<0.5	<0.5
1,1-Dichloropropene	<0.5	<0.5	<0.5
Benzene	<0.1	<0.1	<0.1
1,2-Dichloroethane	<0.1	<0.1	<0.1
Trichloroethene	<0.1	<0.1	<0.1
1,2-Dichloropropane	<0.5	<0.5	<0.5
Dibromomethane	<0.5	<0.5	<0.5
Bromodichloromethane	<2.0	<2.0	<2.0
Toluene	<0.5	<0.5	1
1,1,2-Trichloroethane	<2.0	<2.0	<2.0

TABLE 2.2.2 - VOC ANALYSIS USEPA 524.2 (CONTINUED)			
VOC's (µg/l)	GW1	GW2	GW3
1,1,1,2-Tetrachloroethane	<2.0	<2.0	<2.0
m,p-Xylene	<0.5	<0.5	<0.5
Styrene	<2.0	<2.0	<2.0
Isopropylbenzene	<0.5	<0.5	<0.5
Propylbenzene	<0.5	<0.5	<0.5
2-Chlorotoluene	<0.5	<0.5	<0.5
4-Chlorotoluene	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	<0.5	<0.5	<0.5
P - Isopropyltoluene	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	<0.5	<0.5	<0.5
Naphthalene	<2.0	<2.0	<2.0
1,3-Dichloropropane	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	<2.0	<2.0	<2.0
trans-1,3-Dichloropropene	<2.0	<2.0	<2.0
Dibromochloromethane	<1.0	<1.0	<1.0
Chlorobenzene	<0.5	<0.5	<0.5
Ethyl Benzene	<0.5	<0.5	<0.5
o-Xylene	<0.5	<0.5	<0.5
Bromoform	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<2.0	<2.0	<2.0
Bromobenzene	<0.5	<0.5	<0.5
Tert-Butylbenzene	<0.5	<0.5	<0.5
Sec-Butylbenzene	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	<0.5	<0.5	<0.5
1,2- Dibromo-3-chloropropane	<2.0	<2.0	<2.0
Hexachlorobutadiene	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	<0.5	<0.5	<0.5
Tetrachloroethene	<0.1	<0.1	<0.1
n-butylbenzene	<0.5	<0.5	<0.5
Acetone	<2	<2	<2
Methyl Iodide	<0.5	<0.5	<0.5
Carbon disulphide	<0.5	<0.5	<0.5
Allyl Chloride	<0.5	<0.5	<0.5
Nitrobenzene	<0.5	<0.5	<0.5
Propanenitrile	<10	<10	<10
MtBE	<0.5	<0.5	<0.5
2 Butanone	<5	<5	<5
2 Hexanone	<1	<1	<1
Hexachloroethane	<5	<5	<5
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5

2.2.2 Dust Monitoring 2016

TABLE 2.2.3 - DUST RESULTS 2016			
Month	D1 (mg/m ² /day)	D2 (mg/m ² /day)	D3 mg/m ² /day)
April	91	80	24
July	188	299	123
September	17	61	100

2.2.3 Biofilter Monitoring 2016

TABLE 2.2.4 MONITORING RESULTS FROM THE BIOFILTER MEDIA 23/03/16	
Parameter	Result
% Moisture	74.9
pH	7.8
Ammonia (mg/kg)	17.39
Total Viable Counts @ 30°C (Solid) cfu/g	2.2 x 10 ⁶

TABLE 2.2.5 MONITORING RESULTS FROM THE BIOFILTER MEDIA 11/8/16	
Parameter	Result
% Moisture	72.1
pH	7.4
Ammonia (mg/kg)	15.36
Total Viable Counts @ 30°C (Solid) cfu/g	1.6 x 10 ⁵

TABLE 2.2.6 BIOFILTER INLET EMISSION LEVELS 23/03/16		
Parameter	Inlet 1 Concentration (ppm)	Inlet 2 Concentration (ppm)
Hydrogen Sulphide	<0.2	<0.2
Ammonia	10	15
Mercaptans	0.5	<0.5
Amines	Negative	Negative

TABLE 2.2.7 BIOFILTER OUTLET EMISSION LEVELS 23/3/16	
Parameter	Outlet Concentration (ppm)
Hydrogen Sulphide	<0.2
Ammonia	<5
Mercaptan	<0.5
Amines	Negative

TABLE 2.2.8 BIOFILTER INLET EMISSION LEVELS 11/8/16		
Parameter	Inlet 1 Concentration (ppm)	Inlet 2 Concentration (ppm)
Hydrogen Sulphide	<0.2	<0.2
Ammonia	15	10
Mercaptans	0.5	<0.5
Amines	Negative	Negative

TABLE 2.2.9 BIOFILTER OUTLET EMISSION LEVELS 11/8/16	
Parameter	Inlet Concentration (ppm)
Hydrogen Sulphide	<0.2
Ammonia	<5
Mercaptan	<0.5
Amines	Negative

2.2.4 PM10 Monitoring 2016

TABLE 2.2.10 RESULTS OF PM ₁₀ MONITORING 2016			
Sampling Location	Date	Weight Gain (g)	Concentration (µg/m ³)
Location 1	02/06/16 - 03/06/16	<0.001	<0.1
Location 1	23/11/16 - 24/11/16	<0.001	<0.1

2.2.5 Odour Monitoring 2016

TABLE 2.2.11 METEOROLOGICAL CONDITIONS Q2 / Q4		
Parameter	Q2 2016	Q4 2016
Wind speed (km/hr)	8-10	2-4
Wind direction	Easterly	Northerly

TABLE 2.2.12 ODOUR SAMPLING RESULTS Q2 2016		
Locations	On site observations	Results
OD1 Biofilter	No distinct odour	55 ou _E /m ³
OD2 300m downwind of site	No distinct odour	42 ou _E /m ³

TABLE 2.2.13 CHEMICAL ANALYSIS Q2 2016				
Sample	Hydrogen Sulphide	Ammonia	Mercapten	Amines
OD 01	<0.2	<5	<0.5	Negative
OD 02	<0.2	<5	<0.5	Negative

TABLE 2.2.14 ODOUR SAMPLING RESULTS Q4 2016		
Locations	On site observations	Results
OD 01 At biofilter unit	No Distinct Odour	42 ou _E /m ³
OD 02 425 meters downwind	No Distinct Odour	62 ou _E /m ³

TABLE 2.2.15 CHEMICAL ANALYSIS Q4 2016				
Sample	Hydrogen Sulphide	Ammonia	Mercapten	Amines
OD 01	<0.2	<5	<0.5	Negative
OD 02	<0.2	<5	<0.5	Negative

2.2.6 Noise Monitoring 2016

TABLE 2.2.16: DAY-TIME NOISE MEASUREMENT RESULTS 07:30 to 13:00					
Location / Measurement No.	Measurement Period (min)	L _{eq} dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	L _F Max dB(A)
NSL No1	30	43	48	37	62
NSL No2	30	50	55	45	82
NSL No3	30	56	57	44	88

2.2.7 Surface Water 2016

Table 2.2.17 - Surface water Results 2015 for SW1			
Sample ID	BOD (mg/l)	Suspended Solids (mg/l)	Ammonia (mg/l)
SW1 01/04/16	<2	<5	0.47
SW1 20/08/16	<2	<5	0.27

2.2.8 Non-Compliances 2016

Table 2.2.18 Details of Reported Non-compliance 2016	
Date	Non-compliance
	None during 2016

2.3 RESOURCE USAGE

The summary details of energy and water usage at the plant for the period January 2016 to December 2016 is detailed in Table 2.3.1 below.

Resources	Quantities
Diesel	43793 L
Electricity	187850 KWh
Hydraulic, Transmission & Engine Oil	3000 L
Detergent	20 L
Anti Freeze	200 L

2.4 ENVIRONMENTAL INCIDENTS AND COMPLAINTS

2.4.1 Incidents report for the period January 2016 to December 2016.

Incident	Incident Category	Start date	Finish date	Likely Cause
No Incidents				

2.4.2 There were no complaints to report for the period January 2016 to December 2016

2.5 ENVIRONMENTAL SPENDING

The itemised spend on environmental issues at Miltown Composting Limited is listed below.

<u>January 2016 – December 2016</u>	€
EPA Fee's	9700
Waste Licence management	13,388
Environmental Improvements	128,379
Total Spend	151,467

2.6 ENVIRONMENTAL TRAINING

Copy of environmental training record included in Attachment 2.

Environmental Management Programme for 2017.

Review of Objectives and Targets for the period January to December 2016

Tables EMP 1.1 to 1.5 reviews the Objectives and Targets set for 2016. A number of the listed Objectives and their subsequent targets are cyclical as the company attempts to achieve continuous environmental improvement.

Tables EMP 2.1 to 2.5 set out the Objectives and Targets for 2017. A number of the listed Objectives and their subsequent targets are cyclical as the company attempts to achieve continuous environmental improvement.

MILTOWN COMPOSTING LTD

ENVIRONMENTAL OBJECTIVES AND TARGETS 2017

Item No	OBJECTIVE	TARGET	RESPONSIBLE PERSON
1	Water Management	<ul style="list-style-type: none"> • Maintain checklist for alarms and daily records • Carry out construction of covering for final unroofed yard • Get permission to use reed beds for managing the discharge of surface waters from the site 	D.Murphy
2	Energy Management	<ul style="list-style-type: none"> • Assess wind power options for the site including a determination of the sites base load. • Investigate potential for Anaerobic Digestion (AD) Plant. • Study possibility of installing a CHP plant in conjunction with AD plant. 	D.Murphy
3	E.M.S	<ul style="list-style-type: none"> • Maintain EMS documentation. • Prepare waste storage plan for the site as per technical amendment A to waste licence W0270-01 • Fire risk assessment required as part of waste storage plan. 	D.Murphy
4	Licence Management	<ul style="list-style-type: none"> • Prepare groundwater contouring maps. • Assess nuisance control procedures and practices. • Undertake all environmental monitoring as per licence. 	D.Murphy
5	Increase tonnage	<ul style="list-style-type: none"> • Finalise planning application for increased tonnage. • Review of waste licence following grant of planning. 	D.Murphy

Water Pollution Prevention

EOT 1.1

Objective	Target	Target Date	Method	2016 Review
Water Pollution Prevention	Maintain checklist for alarms and daily records	Continuous 2016	Fill in the daily checklist and site alarms	Complete
	Carry out construction of covering for final unroofed yard	Q2 /Q3 2016	Construct roof over final uncovered yard	90% complete Finish in 2017
	Update application for fire water retention facility following RFI in 2015	Q1 2016	Send on RFI details to EPA.	17/2/16 uploaded to Eden

Energy management**EOT 1.2**

Objective	Target	Target Date	Method	2016 Review
Energy Management	Carry out Energy Audit	Q3 2016	Undertake Energy Audit as per EPA requirements.	Data recording complete for 2016
	Investigate potential for Anaerobic Digestion (AD) Plant.	2016	Carry out a review of AD plants and the feasibility of installing a plant at the Milltown Compost Site Also assess renewable heat incentives	On going Further investigation required
	Study possibility of installing a CHP plant in conjunction with AD plant.	2016	Further to the review of the AD plant a further review of a CHP plant to be carried out.	On going Further investigation required

Environmental Management System

EOT 1.3

Objective	Target	Target Date	Method	2016 Review
E.M.S	Maintain EMS documentation.	Q2 2016	Review all EMS procedures	Complete
	Update procedures to reflect operational and control change.	Continuous 2016	Continuous review of procedures to reflect any changes which occur in terms of site operations or processes.	Complete Accident prevention procedure released in 2016
	Maintain EMP by means of Bi-annual assessment.	June / Dec 2016	Assess biannually to ensure targets are achieved.	Complete

Licence Management**EOT 1.4**

Objective	Target	Target Date	Method	2016 Review
Licence Management	Prepare proposal for and finalise Hydrogeological Study.	Q1 2016	Carry out a desktop hydrogeological study.	Complete - groundwater contouring now required
	Assess nuisance control procedures and practices.	Continuous 2016	Review procedures. Ensure 6 weekly visits of nuisance control company occurs.	Complete
	Undertake all environmental monitoring as per licence.	2016	1 x Noise Survey 2 x Odour Assessment 3 x Dust Monitoring 2 x Biofilter Analysis 1 x Bioaerosol Study 2 x PM10 Survey	Complete

Fugitive Emissions

EOT 1.5

Objective	Target	Target Date	Method	2016 Review
Fugitive Emissions	Assess all flanges and valves used to transport material other than water	Q2 2016	Visually assess all flanges and valves on site used	Completed on a weekly basis
	Determine scope of catchment system for any leaks identified in assessment	Q4 2016	Base on finding of leak assessment	No leaks observed

Water Pollution Prevention

EOT 2.1

Objective	Target	Target Date	Method
Water Pollution Prevention	Maintain checklist for alarms and daily records	Continuous 2017	Fill in the daily checklist and site alarms
	Complete the construction of covering for final unroofed yard	Q1 /Q2 2017	Finish the construction of the roof over final uncovered yard
	Get permission to use reed beds for managing the discharge of surface waters from the site	Q1 2016	Liaise with EPA RE the use of the reed beds.

Energy Management

EOT 2.2

Objective	Target	Target Date	Method
Energy Management	Assess wind power options for the site including a determination of the sites base load.	2017	Investigate wind power options for the site.
	Investigate potential for Anaerobic Digestion (AD) Plant.	2017	Carry out a review of AD plants and the feasibility of installing a plant at the Milltown Compost Site Also assess renewable heat incentives
	Study possibility of installing a CHP plant in conjunction with AD plant.	2017	Further to the review of the AD plant a further review of a CHP plant to be carried out.

Environmental Management System

EOT 2.3

Objective	Target	Target Date	Method
E.M.S	Maintain EMS documentation.	Q2 2017	Review all EMS procedures
	Prepare waste storage plan for the site as per technical amendment A to waste licence W0270-01	Q3 2017	Prepare storage plan as per condition 8.12 of the waste licence
	Fire risk assessment required as part of waste storage plan.	Q1/2 2017	Fire water risk assessment required as per condition 9.5 of the licence

Licence Management**EOT 2.4**

Objective	Target	Target Date	Method
Licence Management	Prepare groundwater contouring maps.	2017	Further to desktop hydrogeological study - use of groundwater modelling software to produce a contour map
	Assess nuisance control procedures and practices.	Continuous 2016	Review procedures. Ensure 6 weekly visits of nuisance control company occurs.
	Undertake all environmental monitoring as per licence.	2017	1 x Noise Survey 2 x Odour Assessment 3 x Dust Monitoring 2 x Biofilter Analysis 1 x Bioaerosol Study 2 x PM10 Survey

Site management

EOT 2.5

Objective	Target	Target Date	Method
Increase tonnage	Finalise planning application for increased tonnage.	2017	Submit Planning application to Tipperary county council.
	Review of waste licence following grant of planning.	2017	Undertake a licence review as per EPA guidelines

Appendix 1

PRTR Scans



{ PRTR# : W0270 | Facility Name : Miltown Composting Systems Limited | Filename : W0270_2016.xls | Return Year : 2016 }

[Guidance to completing the PRTR workbook](#)

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2016
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1. FACILITY IDENTIFICATION

Parent Company Name	Miltown Composting Systems Limited
Facility Name	Miltown Composting Systems Limited
PRTR Identification Number	W0270
Licence Number	W0270-01

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Miltownmore
Address 2	Fethard
Address 3	County Tipperary
Address 4	
	Tipperary
Country	Ireland
Coordinates of Location	-7.76889 52.45236
River Basin District	IESE
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Derry Murphy
AER Returns Contact Email Address	derry@miltowncomposting.ie
AER Returns Contact Position	Site manager
AER Returns Contact Telephone Number	0874125625
AER Returns Contact Mobile Phone Number	0874125625
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	1
Number of Operating Hours in Year	3648
Number of Employees	6
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General

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. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	
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4.1 RELEASES TO AIR [Link to previous years emissions data](#)

Facility: W02701 Facility Name: Milvorn Composting Systems Limited File Name: W02701_2016.xls Return Year: 2016

30/9/2017 9:01

SECTION A : SECTOR SPECIFIC PRTT POLLUTANTS

RELEASES TO AIR

Please enter all quantities in this section in KGs

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

RELEASES TO AIR

Please enter all quantities in this section in KGs

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

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO AIR

Please enter all quantities in this section in KGs

POLLUTANT	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	QUANTITY		
						T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
215	Hydrogen sulphide	M	OTH	Draeger Tube	0.0	0.0	0.0	0.0
220	Mercaptans	M	OTH	Draeger Tube	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

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or oxidised on their facilities to accompany the figures for total methane generated. Operators should only report their 'Net methane (CH4) oxidation to the environment under Titled Key' for Section A. Sector specific PRTT pollutants above. Please complete the table below:

Landfill:	Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	Method Used		Facility Total Capacity m3 per hour
			M/C/E	Method Code	
Milvorn Composting Systems Limited	Total estimated methane generation (as per site model)	0.0			N/A
	Methane flared	0.0			0.0 (Total Flaring Capacity)
	Methane utilised in engines	0.0			0.0 (Total Utilising Capacity)
	Net methane emission (as reported in Section A above)	0.0			N/A

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE
 Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	The Waste Name and Description, Name and Licence/Permit No of Recover/Disposer	The Waste Name and Description, Name and Licence/Permit No of Recover/Disposer	Name and Licence / Permit No and Address of Final Recoverer / Disposer (If Recover/Disposer ONLY)	Actual Address of Final Destination (If Recover/Disposer ONLY)
						MCOE	Method Used					
Within the Country	19 05 99	No	10108.21	wastes not otherwise specified	R10	M	Weighted	Offsite in Ireland	Bord na Mona Druid landfill, W0201-03	Killinagh Lower Upper, Carbury, Co. Kildare, Ireland		
Within the Country	19 05 99	No	346.16	wastes not otherwise specified	D1	M	Weighted	Offsite in Ireland	Bord na Mona Druid landfill, W0201-03	Killinagh Lower Upper, Carbury, Co. Kildare, Ireland		
Within the Country	19 05 99	No	1640.12	wastes not otherwise specified	R10	M	Weighted	Offsite in Ireland	East Galway landfill, W0178-02	Ballinacorney, Ballinacorney, Galway, Ireland		
Within the Country	19 05 99	No	278.12	wastes not otherwise specified	R10	M	Weighted	Offsite in Ireland	Knockcharley landfill, W0146-03	Knockcharley, Galway, Ireland		
Within the Country	19 05 99	No	573.48	wastes not otherwise specified	R10	M	Weighted	Offsite in Ireland	Ballynagran, W0165-02	Ballynagran, Co. Wicklow, Ireland		
Within the Country	19 05 01	No	321.2	non-composted fraction of municipal and similar wastes	F5	M	Weighted	Offsite in Ireland	Greyhound Recycling W0205-01	Greyhound Recycling, Co. Wicklow, Ireland		
Within the Country	20 03 01	No	6.38	mixed municipal waste	D1	M	Weighted	Offsite in Ireland	Disposal WFP-1S-11-0001-01	Lawestown, Clonmel, Co. Tipperary, Ireland		
Within the Country	16 01 17	No	46.46	ferrous metal	R4	M	Weighted	Offsite in Ireland	Recycling WFP-CX-09-0038-02	Choughveelin, Mitchestown, Co. Cork, Ireland		
Within the Country	19 05 99	No	1286.64	wastes not otherwise specified	R10	M	Weighted	Offsite in Ireland	Monaghan CoCo Scotch Corner landfill, W020-02	Lattercane, Annallya, Castleblayney, Co. Monaghan, Ireland		

* Select a new entry code, changing the Description of Waste then tick the correct Edition

Appendix 2

Training Records



Final Version

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Task/Work Practice	Specific Training Provided (In-House/Outside Agency/Date)	Name of Employee
Waste License & Dept of Ag Requirements	In House Training with DERRY MURPHY 9/2/16	John Trean
MC 01 Waste Acceptance P. MC 02 Compost Sampling MC 03 Cleaning & hygiene MC 04 loading & unloading MC 05 Batch Traceability P.	In House Refresher Training with Derry Murphy APB days Facility Manager 14/3/16	Medun Burke Neil Barry John Breen E.C.
MC 06 Handling of Loadback MC 07 Non Complied & Corrective action MC 08 Corrective action on micro bio failure MC 09 Data Management MC 10 Oil Interceptor Maintenance	In House Refresher Training with Facility Manager Derry Murphy 6/4/16	Medun Burke Neil Barry John Breen E.C.
MC 11 Incident Notification P. MC 12 Storm Water Daily Visual inspection MC 13 Emergency Response Procedure	In House with Derry Murphy 28/4/2016	Medun Burke Neil Barry John Breen E.C.
Accident Prevention Procedure	In House with Derry Murphy Facility Manager 10/09/2016	John Breen Neil Barry E.C.
Odour Management Plan	In House update with Derry Murphy 19/10/2016	John Breen Neil Barry E.C. Dan M... M...