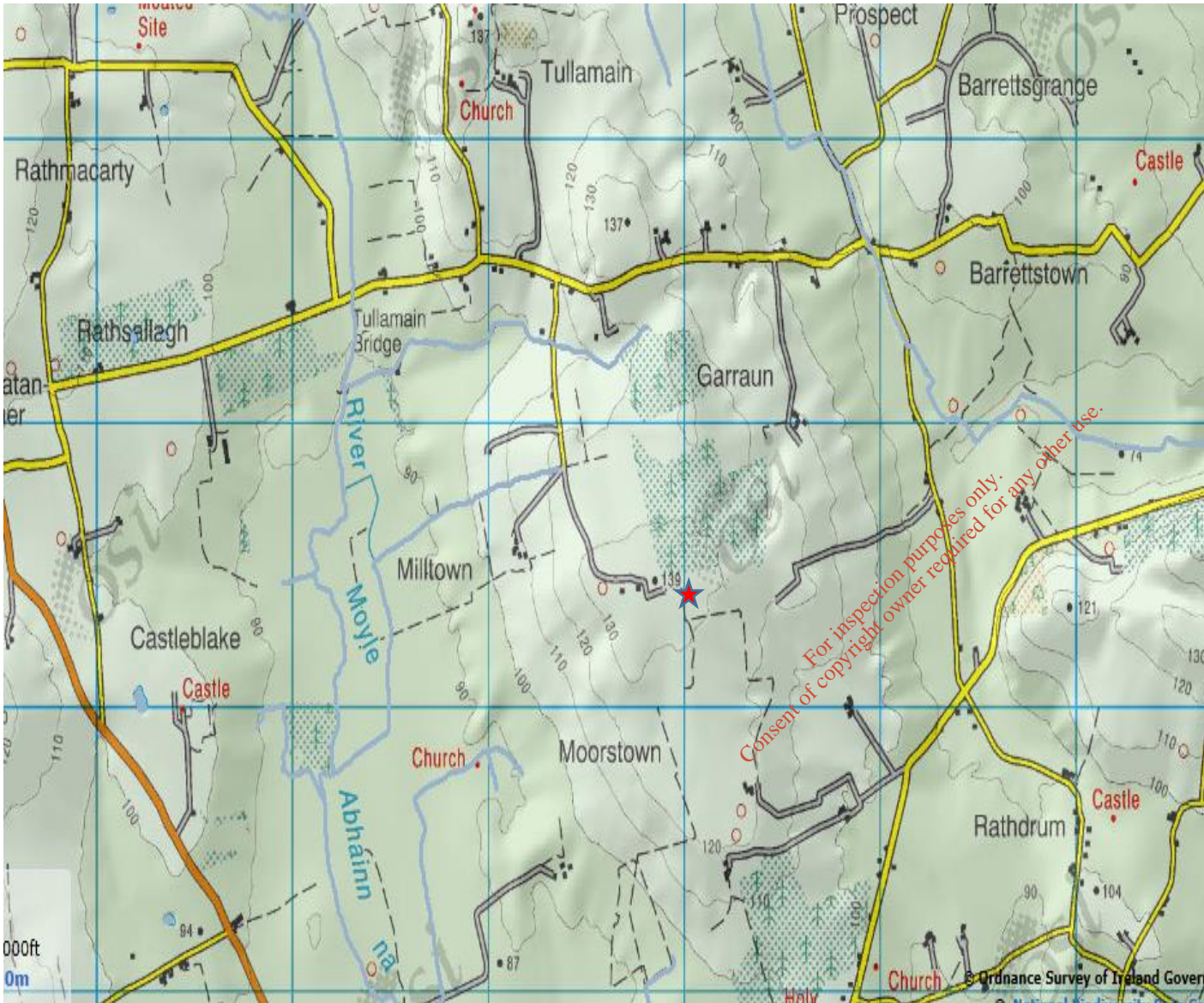


Attachment B.1

Surrounding Area Map

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Legend:

★ Site Location

Notes

1. Original Drawing in Colour

| REFERENCE DRAWINGS | | | | |
|--------------------|------|-------------|----|-----|
| DWG. NO. | DATE | DESCRIPTION | | |
| REVISIONS | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| REV. | DATE | DESCRIPTION | BY | CHK |
| | | | | |



Client Name: **Miltown Compost** Project Location: **Miltown Mor, Fethard**

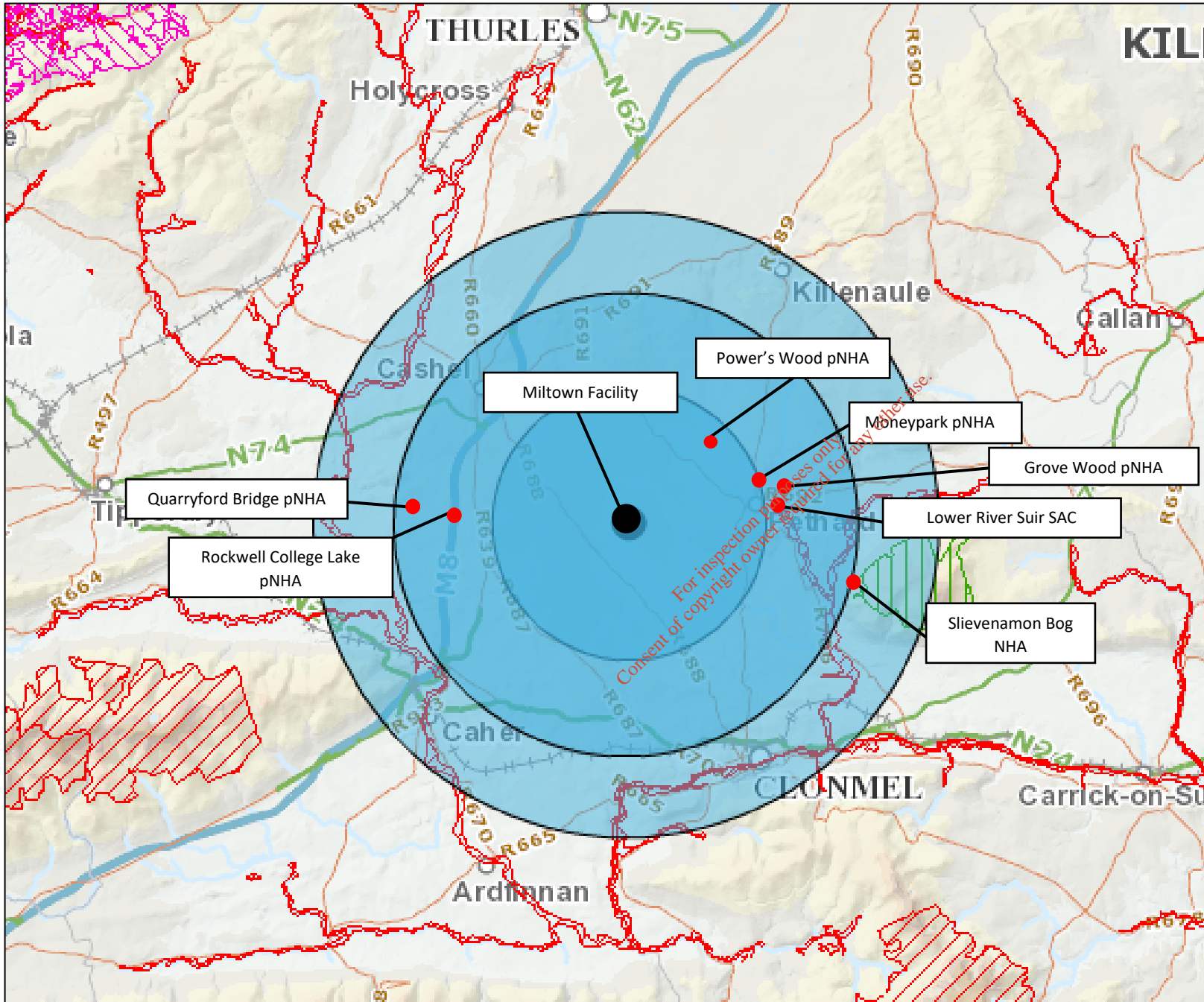
Title: **Map of Area**

| | | | |
|------------|--------|------|-------------|
| DWN BY: JR | Scale: | Date | Drawing No. |
| CKD | Plot: | | |

Attachment B.2

Protected Area Map

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| | |
|---------------------------------|----------------------------|
| Client: Miltown | Job No.: 3201 |
| Drawing No.: 3201-021 | Date: 27/02/2017 |

Legend:
Map sourced from NPWS online map viewer

Attachment B.3

SOP for Waste Acceptance

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WASTE ACCEPTANCE AND CHARACTERISATION PROCEDURE

1. Objectives

- Ensure waste processed on site is suitable for composting and characterised correctly
Waste unsuitable for composting is identified, isolated, and controlled

2. Responsibility

- Facility Manager
- Weighbridge Operators

3. Procedure

- 3.1 Before new waste is proposed to enter the site, pre-clearance is sought from the customer which must include; description and origin of the waste, analysis (if requested). The Environmental/Technical manager will determine the EWC code for the waste and its ABP status. An internal Waste Classification form is filled out to classify the waste.
- 3.2 Any additional information (e.g. analysis) is retained along with the classification form for reference purposes.
- 3.3 Once preclearance is given, waste is allowed enter the site and is weighed in at the weighbridge.
- 3.4 All receptacles (trailers/tankers etc.) entering the site must be covered and sealed. Trucks are directed to the waste acceptance area. An operator then signals to the driver when it is clear to tip waste. The load is visually inspected to ensure that it is consistent with the details provided in the waste classification form and ,assuming is consistent, is cleared to process
- 3.5 If the waste is not cleared to process because of suspected non-conformity with the waste classification form the plant manager is informed immediately. Following an immediate assessment of the suspected non-conforming load the plant manager will either pass the load for processing or direct the load to be reloaded and removed from the site.
All plant and machinery that came in contact with the waste will be thoroughly cleaned.
- 3.6 Where a load is confirmed to be non-conforming, the non conformance and corrective action record sheet (RS MC07) is filled in and all details and actions taken recorded in same.
- 3.7 Once acceptance is complete the weighbridge operator directs the driver to the weighbridge. The truck is weighed out and a detailed receipt is given to the driver.

4. Reference Documents

- Waste License: W0270-01
- DAFM, APPROVAL AND OPERATION OF COMPOSTING PLANTS TRANSFORMING ANIMAL BY-PRODUCTS AND DERIVED PRODUCTS IN IRELAND issued the 8th May 2014
- Waste ABP Classification and Acceptance Form
- Process Flow Diagram

Attachment B.4

SOP for Unsuitable Waste

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NON CONFORMANCE AND CORRECTIVE ACTION

1. Objectives

- To ensure all non conformances with licence conditions, DAFF requirements, Miltown Composting procedures etc are recorded.
- To ensure all non conformances are investigated thoroughly and the 'root cause(s)' determined
- To ensure appropriate actions are carried out to prevent the reoccurrence of non conformances.

2 . Responsibility

- Plant Manager
- Deputy Manager

3. Procedure

3.1 Detection

Non conformances will be detected from the following sources;

- Environmental and Product Monitoring results
- Process control procedures
- Audit Findings
- Complaints (Although not necessarily a non compliance any complaint will be recorded and examined using this procedure.

3.2 Corrective Action

- The Plant Manager is informed of the non-conformance. All staff are made aware of all procedures and critical controls relating to their area of work.
- The Plant Manager will investigate the circumstances surrounding the non-compliance (a staff member involved in the area of work may be designated to carry out this investigation and report back to the Plant Manager). The purpose of the investigation is to determine the root cause(s) of the non conformance.
- The Plant Manager will fill out the non conformance and corrective action record sheet. Here the Plant Manager will detail the causes of the non conformance and detail the corrective actions to be taken.
- The Plant Manger will determine whether or not the non-conformance must be brought to the attention of any licensing authority (for example DAFF will need be informed in the event that the compost samples fail microbiological testing).

4. Reference Documents

- Waste License: W0270-01
- Process Flow Diagram
- Conditions for approval and operation of composting plants transforming animal by- products and derived products in Ireland – issued 8th of May 2014

MILTOWN COMPOSTING LTD

Title: Non conformance and corrective action
Code: SOP MC07
Revision: 7
Revised by: DM
Date: 22/03/2016
Site Location: Miltownmore, Littleton, Co. Tipperary

Non Conformance and Corrective Action Record Sheet

Non Conformance

- Environmental and Product Monitoring results
- Process control procedures
- Audit Findings
- Complaints
- Other

Corrective Action

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Attachment B.5

2015 AER

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ANNUAL ENVIRONMENTAL REPORT

JANUARY 2015
TO
DECEMBER 2015

Licence Number: W0270-01

Licensee: Miltova 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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CONTENTS

SECTION 1: INTRODUCTION

- 1.1 Introduction
- 1.2 Site Description
 - 1.2.1 Description of Activity
 - 1.2.2 Organisational Chart 2015

SECTION 2: SUMMARY DATA

2.1 Waste Management

- Table 2.1.1 Annual Intake 2015

2.2 Environmental Monitoring

2.2.1 Groundwater Monitoring

- Table 2.2.1 General Chemical Analysis
- Table 2.2.2 VOC Analysis USEPA 524.2

2.2.2 Dust Monitoring 2015

- Table 2.2.3 Dust Results

2.2.3 Biofilter Monitoring 2015

- Table 2.2.4 Monitoring results from the Biofilter 27/03/15
- Table 2.2.5 Monitoring results from the Biofilter 29/09/15
- Table 2.2.6 Inlet emission levels 27/03/15
- Table 2.2.7 Outlet emission levels 29/09/15
- Table 2.2.8 Inlet emission levels 27/03/15
- Table 2.2.9 Outlet emission levels 29/09/15

2.2.4 PM10 Monitoring 2015

- Table 2.2.10 Results of PM10 Monitoring

2.2.5 Odour Monitoring 2015

- Table 2.2.11 Meteorological Conditions
- Table 2.2.12 Odour Sampling Results Q2 2015
- Table 2.2.13 Chemical Results Q2 2015
- Table 2.2.14 Odour Sampling Results Q4 2015
- Table 2.2.15 Chemical Results Q4 2015

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2.2.6 Noise Monitoring 2015

Table 2.2.16 Day-time Results

Table 2.2.17 Evening- time Results

2.2.7 Surface water 2015

Table 2.2.18 Surface water results 2015 for SW1

2.2.8 Non-Compliances 2015

Table 2.2.19 Details of Non-Compliances 2015

2.3 Resource Usage

Table 2.3.1 Resource Usage 2015

2.4 Environmental Incidents and Complaints

2.5 Environmental Spending

2.6 Environmental Training

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SECTION 3: ENVIRONMENTAL MANAGEMENT SYSTEM

3.1 Environmental Management Programme for 2015

EOT 1.1/5 Objectives and Targets 2015 Review

EOT 2.1/5 Objectives and targets 2016 EMP

Appendices

Appendix 01 PRTR Scan

Appendix 02 Environmental training records

SECTION 1

INTRODUCTION

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1.1 INTRODUCTION

The following is the Annual Environmental Report (AER) for the period January 2015 to December 2015 at Miltown Composting Ltd.

The company was granted an EPA Waste Licence No. W0270-01 on the 9th September 2010. This is the 2015 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.

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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.

In 2007 Miltown moved the maturation process to Sheds 2 and 3. In January 2008 there was a fire at the site, when the compost turner went on fire. The turner was destroyed and the fabric of Shed 3 was damaged. 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.

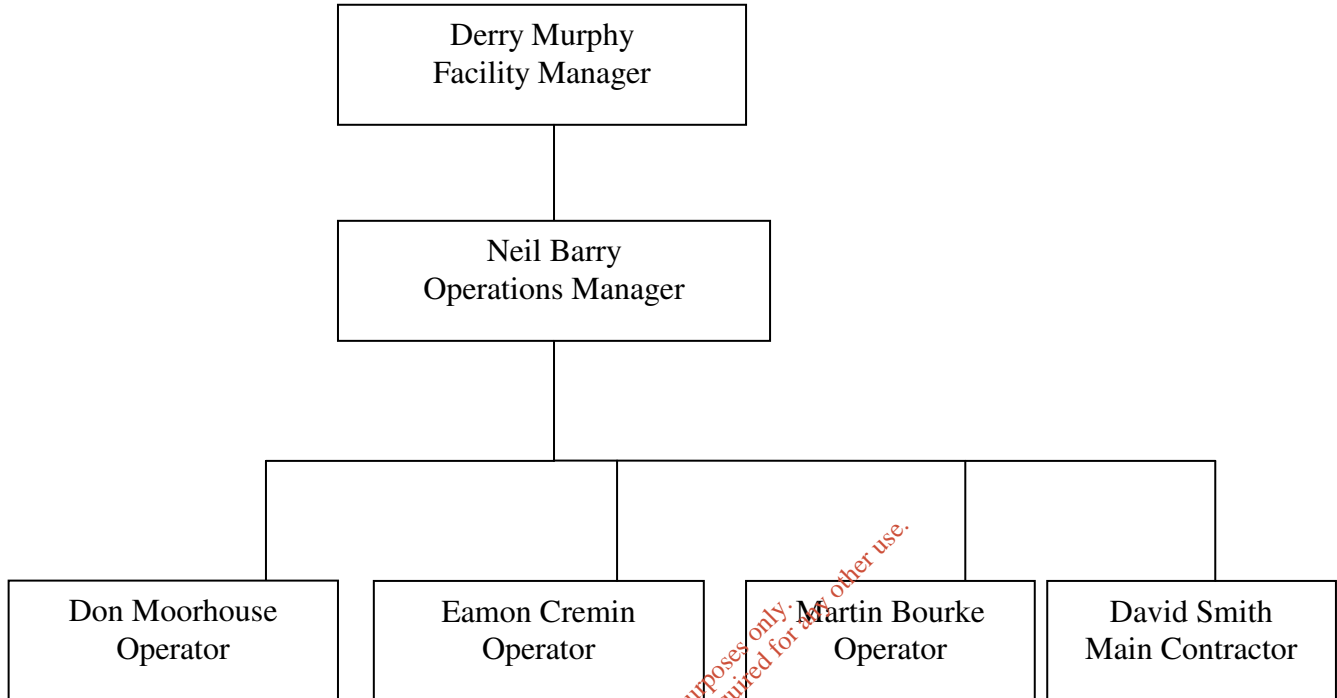
Mesophilic Stage

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 telescopic 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 2015



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Section 2

DATA

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2.1 WASTE MANAGEMENT

| TABLE 2.1.1 – ANNUAL WASTE INTAKE 2015 | | |
|---|----------|--------------------|
| Waste Type | EWC Code | 2015 Intake Tonnes |
| Waste from the mechanical treatment of wood waste | 19 12 07 | 118.45 |
| Garden and park waste from municipal sources | 20 02 01 | 387.64 |
| Organic Fines | 19 12 12 | 23924.258 |
| Edible oils and fats | 20 01 25 | 1.12 |

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2.2 ENVIRONMENTAL MONITORING

2.2.1 Groundwater Results 2015

Table 2.2.1 / 2 – Groundwater Analysis Results 2015

| 2.2.1 GENERAL CHEMICAL ANALYSIS RESULTS | | | |
|---|------|-------|-------|
| Parameter | GW1 | GW2 | GW3 |
| Chloride (mg/l) | 75 | 130 | 33 |
| Conductivity (uS/cm) | 589 | 799 | 284 |
| Nitrate (mg/l) | 3.14 | 0.27 | 8.48 |
| pH | 6.8 | 6.7 | 6.4 |
| Total Nitrogen (mg/l) | 4.1 | <1 | 11.1 |
| Ammonia (mg/l) | 0.11 | 0.088 | 0.089 |

| 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 2015

| TABLE 2.2.3 - DUST RESULTS 2015 | | | |
|---------------------------------|-----------------------------|-----------------------------|----------------------------|
| Month | D1 (mg/m ² /day) | D2 (mg/m ² /day) | D3 mg/m ² /day) |
| July | 64 | 141 | 184 |
| September | 30 | 40 | 70 |
| November | 112 | 153 | 194 |

2.2.3 Biofilter Monitoring 2015

| TABLE 2.2.4 MONITORING RESULTS FROM THE BIOFILTER MEDIA 27/03/15 | |
|---|-----------------------|
| Parameter | Result |
| % Moisture | 54.2 |
| pH | 8.1 |
| Ammonia (mg/kg) | 6.2 |
| Total Viable Counts @ 30°C (Solid) cfu/g | 9.5 x 10 ⁵ |

| TABLE 2.2.5 MONITORING RESULTS FROM THE BIOFILTER MEDIA 29/09/15 | |
|---|--------|
| Parameter | Result |
| % Moisture | 74.9 |
| pH | 7.7 |
| Ammonia (mg/kg) | 132.47 |
| Total Viable Counts @ 30°C (Solid) cfu/g | 640 |

| TABLE 2.2.6 BIOFILTER INLET EMISSION LEVELS 27/03/15 | | |
|--|-----------------------------|-----------------------------|
| Parameter | Inlet 1 Concentration (ppm) | Inlet 2 Concentration (ppm) |
| Hydrogen Sulphide | <0.2 | <0.2 |
| Ammonia | 20 | 10 |
| Mercaptans | 0.5 | <0.5 |
| Amines | Negative | Negative |

| TABLE 2.2.7 BIOFILTER OUTLET EMISSION LEVELS 27/03/15 | |
|---|---------------------------|
| Parameter | Inlet Concentration (ppm) |
| Hydrogen Sulphide | <0.2 |
| Ammonia | <5 |
| Mercaptan | <0.5 |
| Amines | Negative |

| TABLE 2.2.8 BIOFILTER INLET EMISSION LEVELS 29/09/15 | | |
|--|-----------------------------|-----------------------------|
| Parameter | Inlet 1 Concentration (ppm) | Inlet 2 Concentration (ppm) |
| Hydrogen Sulphide | <0.2 | <0.2 |
| Ammonia | 15 | 20 |
| Mercaptans | 0.5 | <0.5 |
| Amines | Negative | Negative |

| TABLE 2.2.9 BIOFILTER OUTLET EMISSION LEVELS 29/09/15 | |
|---|---------------------------|
| Parameter | Inlet Concentration (ppm) |
| Hydrogen Sulphide | <0.2 |
| Ammonia | <5 |
| Mercaptan | <0.5 |
| Amines | Negative |

2.2.4 PM10 Monitoring 2015

| TABLE 2.2.10 RESULTS OF PM ₁₀ MONITORING 2015 | | | |
|--|---------------------|-----------------|------------------------------------|
| Sampling Location | Date | Weight Gain (g) | Concentration (µg/m ³) |
| Location 1 | 03/06/15 - 04/06/15 | 0.003 | 0.83 |
| Location 1 | 14/12/15 - 15/12/15 | <0.001 | < 0.1 |

2.2.5 Odour Monitoring 2015

| TABLE 2.2.11 METEOROLOGICAL CONDITIONS Q2 / Q4 | | |
|--|-----------|----------------|
| Parameter | Q2 2015 | Q4 2015 |
| Wind speed (km/hr) | 14-18 | 18-22 |
| Wind direction | Southerly | South Westerly |

| TABLE 2.2.12 ODOUR SAMPLING RESULTS Q2 2015 | | |
|---|----------------------|------------------------------------|
| Locations | On site observations | Results |
| OD1 Biofilter | No distinct odour | 57 ou _E /m ³ |
| OD2 300m downwind of site | No distinct odour | 53 ou _E /m ³ |

| TABLE 2.2.13 CHEMICAL ANALYSIS Q2 2015 | | | | |
|--|-------------------|---------|-----------|----------|
| 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 2015 | | |
|---|----------------------|------------------------------------|
| Locations | On site observations | Results |
| OD 01 At biofilter unit | No Distinct Odour | 69 ou _E /m ³ |
| OD 02 300 meters downwind | No Distinct Odour | 45 ou _E /m ³ |

| TABLE 2.2.15 CHEMICAL ANALYSIS Q4 2015 | | | | |
|--|-------------------|---------|-----------|----------|
| 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 2015

TABLE 2.2.16: DAY-TIME NOISE MEASUREMENT RESULTS 15:00 to 17:00

| 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 | 49 | 53 | 40 | 80 |
| NSL No2 | 30 | 58 | 55 | 43 | 85 |
| NSL No3 | 30 | 47 | 50 | 39 | 74 |

TABLE 2.2.17: EVENING NOISE MEASUREMENT RESULTS 19:00 to 19:45

| 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 | 15 | 35 | 40 | 32 | 46 |
| NSL No2 | 15 | 37 | 44 | 33 | 50 |

2.2.7 Surface Water 2015

Table 2.2.18 - Surface water Results 2015 for SW1

| Sample ID | BOD (mg/l) | Suspended Solids (mg/l) | Ammonia (mg/l) |
|--------------|------------|-------------------------|----------------|
| SW1 28/01/15 | <5 | <20 | 0.53 |
| SW1 27/10/15 | 1 | <13 | 0.36 |

2.2.8 Non-Compliances 2015

| Table 2.2.19 Details of Reported Non-compliance 2015 | |
|--|--|
| Date | Non-compliance |
| 25/03/15 | On site visit of 25/03/2015 it was noted that the concrete surface of the waste reception yard was cracked in several places and did not appear to be impermeable. |
| 25/03/15 | On the site visit of 25/03/2015 it was noted that the above ground contaminated storm water storage tank located in the reception yard was not fitted with a high liquid level alarm. Also the high level liquid alarm fitted to the underground contaminated storm water storage tank adjacent to the on-site oil interceptor was not working on the day of the site visit. |
| 25/03/15 | On site visit of 25/03/2015, it was noted the Licensee has not submitted a suitable fire-water risk assessment report to date. |

2.3 RESOURCE USAGE

The summary details of energy and water usage at the plant for the period January 2015 to December 2015 is detailed in Table 2.31 below.

| Resources | Quantities |
|--------------------------------------|------------|
| Diesel | 59715 L |
| Electricity | 154700 KwH |
| Hydraulic, Transmission & Engine Oil | 1800 L |
| Detergent | 20 L |
| Anti Freeze | 100 L |

2.4 ENVIRONMENTAL INCIDENTS AND COMPLAINTS

2.4.1 Incidents report for the period January 2015 to December 2015.

| Incident | Incident Category | Start date | Finish date | Likely Cause |
|---|-------------------|------------|-------------|---------------------------|
| Exceedance of trigger level for S.S @ SW1 | 1 | 5/11/15 | 6/11/15 | Inadequate Infrastructure |
| Exceedance of trigger level for Ammonia | 1 | 26/11/15 | 1/12/15 | Inadequate Infrastructure |

2.4.2 There were no complaints to report for the period January 2015 to December 2015.

2.5 ENVIRONMENTAL SPENDING

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

| <u>January 2015 – December 2015</u> | € |
|-------------------------------------|---------------|
| EPA Fee | 9700 |
| Waste Licence management | 27,978 |
| Planning Fees and Expenses | 18,864 |
| Total Spend | 56,542 |

2.6 ENVIRONMENTAL TRAINING

Copy of environmental training record included in Attachment 2.

Environmental Management Programme for 2016.

Review of Objectives and Targets for the period January to December 2015

Tables EMP 1.1 to 1.5 reviews the Objectives and Targets set for 2015. 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 2016. A number of the listed Objectives and their subsequent targets are cyclical as the company attempts to achieve continuous environmental improvement.

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MILTOWN COMPOSTING LTD

ENVIRONMENTAL OBJECTIVES AND TARGETS 2016

| 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 • Update application for fire water retention facility following RFI in 2015 | D.Murphy |
| 2 | Energy Management | <ul style="list-style-type: none"> • Carry out Energy Audit. • 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. • Update procedures to reflect operational and control change. • Maintain EMP by means of Bi-annual assessment. | D.Murphy |
| 4 | Licence Management | <ul style="list-style-type: none"> • Undertake a desktop Hydrogeological Study. • Assess nuisance control procedures and practices. • Undertake all environmental monitoring as per licence. | D.Murphy |
| 5 | Fugitive Emissions | <ul style="list-style-type: none"> • Assess all flanges and valves used to transport material other than water. • Determine scope of catchment system for any leaks identified in assessment | D.Murphy |

Water Pollution Prevention

EOT 1.1

| Objective | Target | Target Date | 2015 Review | Person Responsible |
|------------------|---|--------------------|--|---------------------------|
| Water Management | Maintain checklist for alarms and daily records | Continuous 2015 | Complete | Derry Murphy |
| | Prepare planning application for covering final unroofed yard | Q1 2015 | Complete Planning granted on 16/09/15 | Derry Murphy |
| | Prepare application for fire water retention facility | Q1 2015 | Complete EPA have requested further information | Derry Murphy |

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Energy management

EOT 1.2

| Objective | Target | Target Date | 2015 Review | Person Responsible |
|-------------------|---|--------------------|---|---------------------------|
| Energy Management | Carry out Energy Audit | Q2 2015 | Energy records maintained move audit to 2016 | Derry Murphy - OCM |
| | Investigate potential for Anaerobic Digestion (AD) Plant. | 2015 | On-Going Site management are continuing to asses potential for AD plant | Derry Murphy |
| | Study possibility of installing a CHP plant in conjunction with AD plant. | 2016 | Not due until 2016 | Derry Murphy |

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Environmental Management System

EOT 1.3

| Objective | Target | Target Date | 2015 Review | Person Responsible |
|-----------|--|-----------------|-------------|--------------------|
| E.M.S | Maintain EMS documentation. | 2015 | Complete | Derry Murphy |
| | Update procedures to reflect operational and control change. | Continuous 2015 | Complete | Derry Murphy |
| | Maintain EMP by means of Bi-annual assessment. | June / Dec 2015 | Complete | Derry Murphy |

Licence Management

EOT 1.4

| Objective | Target | Target Date | 2015 Review | Person Responsible |
|--------------------|--|-----------------|--------------|--------------------|
| Licence Management | Prepare proposal for and finalise Hydrogeological Study. | 2015 | Move to 2016 | Derry Murphy |
| | Assess nuisance control procedures and practices. | Continuous 2015 | On-Going | Derry Murphy |
| | Undertake all environmental monitoring as per licence. | 2015 | Complete | Matrix Env |

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Incoming waste / Finished product

EOT 1.5

| Objective | Target | Target Date | 2015 Review | Person Responsible |
|-----------------------------------|--|--------------------|--|---------------------------|
| Incoming waste / Finished product | Investigate new waste types for inclusion in compost process | 2015 | No new wastes added in 2015 | Derry Murphy |
| | Research new sustainable outlets for the finished products | 2015 | Continuously researching new outlets during 2015 | Derry Murphy |

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Water Pollution Prevention

EOT 2.1

| Objective | Target | Target Date | Method |
|----------------------------|--|--------------------|---|
| Water Pollution Prevention | Maintain checklist for alarms and daily records | Continuous 2016 | Fill in the daily checklist and site alarms |
| | Carry out construction of covering for final unroofed yard | Q2 /Q3 2016 | Construct roof over final uncovered yard |
| | Update application for fire water retention facility following RFI in 2015 | Q1 2016 | Send on RFI details to EPA. |

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Energy Management

EOT 2.2

| Objective | Target | Target Date | Method |
|-------------------|---|-------------|---|
| Energy Management | Carry out Energy Audit | Q3 2016 | Undertake Energy Audit as per EPA requirements. |
| | 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 |
| | 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. |

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Environmental Management System

EOT 2.3

| Objective | Target | Target Date | Method |
|-----------|--|-----------------|--|
| E.M.S | Maintain EMS documentation. | Q2 2016 | Review all EMS procedures |
| | 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. |
| | Maintain EMP by means of Bi-annual assessment. | June / Dec 2016 | Assess biannually to ensure targets are achieved. |

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Licence Management

EOT 2.4

| Objective | Target | Target Date | Method |
|--------------------|--|-----------------|--|
| Licence Management | Undertake desk-top Hydrogeological Study. | Q1 2016 | Carry out a desktop hydrogeological study. |
| | 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. | 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 |

Fugitive Emissions

EOT 2.5

| Objective | Target | Target Date | Method |
|--------------------|--|-------------|---|
| 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 |
| | Determine scope of catchment system for any leaks identified in assessment | Q4 2016 | Base on finding of leak assessment |

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Appendix 1

PRTR Scans

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| PRTR# : W0270 | Facility Name : Miltown Composting Systems Limited | Filename : Copy of W0270_2015.xls | Return Year : 2015 |

[Guidance to completing the PRTR workbook](#)

PRTR Returns Workbook

Version 1.1.19

| | |
|-----------------------|------|
| REFERENCE YEAR | 2015 |
|-----------------------|------|

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 | |
| 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 | 5 |
| 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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[LINK TO RELEVANT AER RETURNS SUBMISSIONS DATA](#)

[PRTR# : W0270] [Facility Name : Miltown Composting Systems Limited] [Filename : Copy of W0270_2015.xls] [Return Year : 2015]

29/09/2016 15:14

4.1 RELEASES TO AIR

SECTION A.: SECTOR SPECIFIC PRTR POLLUTANTS

| No. Annex II | POLLUTANT | Name | METHOD | | QUANTITY | | | | | |
|--------------|-----------|------|--------|-------------|----------------------------|------------------|-------------------|------------------------|----------------------|-----|
| | | | MIC/E | Method Code | Description 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 |

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

SECTION B.: REMAINING PRTR POLLUTANTS

| No. Annex II | POLLUTANT | Name | METHOD | | QUANTITY | | | | | |
|--------------|-----------|------|--------|-------------|----------------------------|------------------|-------------------|------------------------|----------------------|-----|
| | | | MIC/E | Method Code | Description 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 |

* 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)

| Pollutant No | POLLUTANT | Name | METHOD | | QUANTITY | | | | | |
|--------------|-----------|-------------------|--------|-------------|----------------------------|------------------|-------------------|------------------------|----------------------|-----|
| | | | MIC/E | Method Code | Description or Description | Emission Point 1 | T (Total) KG/year | A (Accidental) KG/year | F (Fugitive) KG/year | |
| 215 | | Hydrogen sulphide | | | | | 0.0 | 0.0 | 0.0 | 0.0 |
| 220 | | Mercaptans | | | | | 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 utilised. This data should be reported in Section A. of the PRTR returns. For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised. This data should be reported in Section A. of the PRTR returns. For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised. This data should be reported in Section A. of the PRTR returns. Please complete the table below.

| Landfill: | Please enter summary data on the quantities of methane flared and / or utilised | Miltown Composting Systems Limited | Methane flared | | Facility Total Capacity m3 per hour |
|-----------|---|------------------------------------|----------------|-------------|-------------------------------------|
| | | | MIC/E | Method Code | |
| | Total estimated methane generation (as per site model) | | | | 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 Printable | Add Data | Facility Name: Miltown Compositing Systems Limited | Filename: Copy of W0270_2015.xls | Return Year: 2015 |

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 | Haz Waste Name and Licence/Permit No of Receptor/Disposer | Haz Waste Address of Receptor/Disposer | Name and Licence / Permit No. and Address of Final Receiver / 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 | 19 05 99 | No | 16796.36 | stabilised wastes other than those mentioned in 19 03 04 | R10 | M | Weighted | Offsite in Ireland | Bord na Mona Dredged Landfill W0203-03 | Kilnagh Lower Upper, Carrbury, Co Kildare, Ireland | | |
| Within the Country | 19 05 99 | No | 4152.02 | wastes not otherwise specified | R10 | M | Weighted | Offsite in Ireland | Monaghan CoCo, Scotch Corner Landfill, W020-02 | Lettiebans Annayella Castlederry, Co. Monaghan, Ireland | | |

* Select a row by double-clicking the Description of Waste text in the table below

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Appendix 2

Training Records

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Final Version

| Task/Work Practice | Specific Training Provided (In-House/Outside Agency/Date) | Name of Employee |
|---|--|--|
| Emergency Response Procedures update awareness with staff | In House with Facility Manager DERRY MURPHY Derry Murphy 9/1/2015 | Mark Beale Neil Barry Don Moran Eunice Cronin |
| Compost Facility Management Course | CRE FEB / March 2015 | David Smith |
| Anaerobic Digestion 'practice digester biology' | Aberkyn University Dunloe (1864) 6-8 Jan 2015 | Derry Murphy |
| Staff Refresher of Licence Requirements SOPs MCO1 - MCI3 | In House with Facility Manager DERRY MURPHY Derry Murphy 21st & 22nd July 2015 | Mark Beale Neil Barry Don Moran Eunice Cronin |
| Emergency Response Procedures update awareness with all staff | In House with Facility Manager DERRY MURPHY Derry Murphy 28/8/2015 | Mark Beale Neil Barry Don Moran Eunice Cronin |
| Staff Refresher on Licence Requirements SOPs MCO1 - MCI3 | In House with Facility Manager DERRY MURPHY Derry Murphy 10/11/2015 | Mark Beale Neil Barry Don Moran Eunice Cronin |

Attachment B.6

Odour Management Plan

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Odour Management Plan

The measures to mitigate odours at the site are:

- 1. Operational measures;**
- 2. Management of complaints;**
- 3. Monitoring of odour emissions**

1. Operational measures

Effective operational management, including monitoring and control of key process parameters help control the formation of odours and reduce emissions of odour

- Control of waste input characteristics (e.g. C:N ratio, particle size);
- Control of water content;
- Control of air diffusion through the waste;
- Control of temperature

The above criteria are controlled through the Standard Operating Procedures (SOP's) listed below

- Standard Operating Procedure #1: Waste Acceptance
- Standard Operating Procedure #2: Feedstock Preparation
- Standard Operating Procedure #3: Pre-composting
- Standard Operating Procedure #4: ABP Processing
- Standard Operating Procedure # 8: Hygiene, Cleaning & Maintenance
- SOP MC 03 CLEANING AND HYGEINE PROCEDURE
- SOP MC04 LOADING/UNLOADING OF ABP SANITISATION BAYS
- SOP MC06 LEACHATE HANDLING PROCEDURE

2. Management of Complaints

Complaints are managed through:

- CORRECTIVE ACTION PROCEDURES (Cap-1)
- NON CONFORMANCE AND CORRECTIVE ACTION MC07

Which in the case of a single odour emission events includes:

- o name, address and telephone number of the complainant;
- o date and time of the complaint;
- o subject of the complaint;
- o operations carried out at the time of the complaint;
- o weather conditions (e.g. temperature, wind direction, rainfall);

- o operational measures due to the complaint;
- o communication with the complainant: an immediate reply is given to the complainant.

3. Monitoring of odour emissions

Monitoring of odour emissions includes the frequency and location of the measurements as well as the measurement method.

In relation to the monitoring of emissions to air and odour monitoring at the facility the Agency has agreed to the following:-

- Odour monitoring at the biofilters by olfactometric measurement on a bi-annual basis, instead of quarterly as required in Table C.1.2 of the licence.
- Odour impact assessment at the facility in accordance with Air Guidance Note 5 (AG5) on a quarterly basis;
- Odour assessment of the bed media on a daily basis in accordance with Table C.1.3 of the licence (recorded by site operators in the Daily Inspection Log)
- Monitoring of biofilter inlet and outlet gas on a bi-annual basis in accordance with Table C.1.3 of the licence.

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Attachment B.7

Accident Prevention Procedure

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Accident Prevention Procedure (APP)

APP Requirement

9.2 The licensee shall ensure that a documented Accident Prevention Procedure is in place that addresses the hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment. This procedure shall be reviewed annually and updated as necessary.

1. Objectives

The APP shall identify all hazards and risks on site and ensure the necessary measures are taken to prevent accidents with a possible adverse impact on the environment and to limit their consequences when accidents do occur.

2. Responsibility

- Plant Manager
- Site Operators

3. Procedure - identify all hazards and risks

1. Fire – Waste storage
2. Fire – Plant
3. Fire - Electrical
4. Spillage – Leachate and Contaminated Water Management

3.1 Fire - Waste Storage

- Inspect composting and curing piles to ensure adequate moisture – record in Daily Inspection log
- Ensure adequate separation of compost, oversized, erratic and woodchip piles – record in weekly inspection log
- Inspect Static Piles/Windrow's to ensure compost, oversized and erratic piles are not compacted – see SOP MC04 and ABP SOP #5 (*Never drive on the maturing compost when turning the piles to prevent compaction*), see also the **Safety Statement, 3. Fire Hazards** Check erratic's weekly ensuring material is not compacted, remove the longest stored material first, Never drive on erratic's and turn at least monthly. Record in weekly inspection log.

3.2 Fire – Plant

- Ensure safe storage of combustible and flammable materials as per Weekly inspection Log
- Ensure the Prevention of mobile sources of ignition in areas with combustible and flammable materials – see Safety Statement - 5. Electrical equipment / tools
- Ensure Loaders, tractor and compressor are cleaned and maintained as per Cleaning and Maintenance Log.
- Ensure all fan's/blowers are working properly and free of debris as per Weekly Inspection Log
- Ensure the screener is inspected daily and cleaned as necessary as per Cleaning and Maintenance Log
- Ensure Fire extinguishers are in place and operational as per Weekly Inspection Log and Fire Safety Register

3.3 Fire – Electrical

- Ensure Co2 fire extinguisher is in place and operational as per Weekly Inspection Log and Fire Safety Register

3.4 Spillage – Leachate and Contaminated Water Management

- Ensure All pumps sumps, storage tanks from which spillage of environmentally significant materials might occur are fitted with high liquid level alarms and checked weekly - see Weekly Inspection Log
- Ensure the underside and wheels of vehicles delivering waste or other materials into the reception area shall be washed and disinfected upon departure from the building - See SOP MC03 Cleaning and Hygiene Procedure and signed off by the driver – see Raw Material Intake Log :
- Ensure the Integrity of contaminated water over-ground pipes – see Weekly Inspection Log
- Ensure the Integrity of Bunds for the Screener motor and hydraulic hoses– see Weekly Inspection Log
- Ensure an adequate supply of containment booms and/or suitable absorbent material to contain and absorb any spillage at the facility – see Weekly Inspection Log
- Ensure Only Skilled operatives operate pumps, Tractors and Slurry tankers, Never leave operating machinery unattended - See Safety Statement and Cleaning and Maintenance Log

4. Any accidents/incidents that do occur on site should be fully investigated. The investigation should include the following:

- o Documentation of what occurred
- o The root cause of the event
- o A summary of the response actions taken
- o A summary of the impact on the environment
- o Identification of lessons regarding prevention of reoccurrence and in terms of response to future events.
- o The APP should be reviewed after any accident/incident to ensure it is still fit for purpose

5. In the event that an emergency situation or accident is also a notifiable incident

Refer to the **Incident Notification Procedure**

And the **EMERGENCY RESPONSE PROCEDURE**

Reference Documents

- Waste licence W0270-01
- **EPA 2016 Guidance to Licensees on the Preparation of Accident Prevention Procedures and Emergency Response Procedures**
- EPA Guidance to Licensees/COA holders on the Notification, Management and Communication of Environmental Incidents
- Safety Statement 2016-2018
- Weekly inspection Log
- Cleaning and Maintenance Log.
- Daily Inspection log
- Fire Safety Register
- SOP MC04 : Leachate Handling Procedure
- SOP MC03 Cleaning and Hygiene Procedure
- SOP #5: Quarantine, Maturation & Screening
- Raw Material Intake Log

Attachment B.8

Emergency Response Procedure

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EMERGENCY RESPONSE PROCEDURE

**MILTOWN COMPOSTING SYSTEMS
MILLTOWNMORE, FETHARD, CO. TIPPERARY
EPA LICENCE NO W0270-01
Phone 052-613 0815 / 087 4125625 / 086 7707372**

In the event of any emergency situation developing on site which may create an environmental risk, make contact with the following;

| | |
|---|--------------------|
| DERRY MURPHY (Facility Manager) | 087 4125625 |
| NEIL BARRY (Deputy Facility Manager) | 086 7707372 |

In the event of an incident at the facility with the potential to impact surface water discharges, direct runoff to the leachate tanks, if full redirect the runoff to the contaminated water tanks, if further storage is needed, Call Tom Shanahan of Spotless Drains, Chris Molloy of Molloy Waste and Martin Lehane of Lehane Environmental who will provide vacuum tankers as a temporary storage measure in order to contain all runoff, until such time as the collected runoff can be transported to the nearest waste water treatment plant.

If vacuum tanker equipment is required contact

| | |
|---|--------------------------|
| TOM SHANAHAN (Spotless Drains) | Phone 086 2550144 |
| Chris Molloy (Molloy Waste) | Phone 087 9794237 |
| MARTIN LEHANE (Lehane Environmental) | Phone 021 4351020 |

In the event of a breakdown of the air abatement system which could cause emissions to air contact Redwood Systems at

| | |
|------------------------|--------------------|
| Monique O Brien | 086 0460774 |
| Fergus O Brien | 086 2460006 |
| Liam O Brien | 01 4596756 |

| | |
|--|---------------------|
| MEDICAL ASSISTANCE; Dr CARMEL CONDON; | 052 613 1631 |
| FIRE BRIGADE; | 999 or 112 |
| GARDA SIOCHANA; | 052 613 1202 |

EMERGENCY RESPONSE PROCEDURE

If Excavating machinery are required, make contact with

DAVE SMITH Phone; 086-300 6953

If Loaders are required to move feedstock, overs or compost contact

NEIL BARRY Phone; 086-7707372

If Structural damage has occurred to any building on site, contact

MICHAEL McENIRY Phone; 086-250 0332

As per condition 11.6 of licence and SOP MC11 Incident Notification Procedure

1. NOTIFY THE ENVIRONMENTAL PROTECTION AGENCY (EPA)

By phone and through EPA portal EDENIRELAND (Report Incident)

Kilkenny; Phone; 056 779 6700

Phone Lo Call; 1890 335599

2. NOTIFY TIPPERARY COUNTY COUNCIL

During Office Hours ; Phone 0761065000 Fax 067 33134

Outside office hours ; Phone 1890 923948

3. NOTIFY THE DEPT. OF AGRICULTURE, FOOD & MARINE

Phone ; 062 34900

Fax ; 062 31406

4. NOTIFY INLAND FISHERIES IRELAND, CLONMEL

Phone ; 052 6180055

frank.odonoghue@fisheriesireland.ie

5. NOTIFY THE HEALTH AND SAFETY AUTHORITY

Phone ; 1890 289389

Fax ; 01 6147125

IN THE EVENT OF ACTIONS UNDERTAKEN TO RESOLVE ANY OF THE ABOVE, YOU ARE TO RECORD SUCH ACTION UNDER THE HEADING “EMERGENCY ACTION REPORTS” IN THE DAILY REGISTER KEPT IN THE FACILITY OFFICE.

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