O'Toole Composting Limited W284-01
Annual Environmental Report (AER) 2016

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1. INTRODUCTION & REPORTING PERIOD

O'Toole Composting Limited has operated a waste installation at Ballintrane, Fenagh, Co. Carlow since 2004. The installation is located in an agricultural area and is adjacent to the N80 (Bunclody - Carlow) national primary road. The Tinnaclash Stream runs along the site's eastern boundary and merges with the Burren River approximately 100m downstream from the installation.

Waste activities at the installation have previously been regulated by Carlow County Council under waste facility permits issued by Carlow County Council (WFP-CW-10-003-01, WFP-CW-14-5).

Industrial Emissions Licence W0284-01 was granted to O'Toole Composting Limited 8th of October 2015 to carry out the following Classes of activities at the facility located at Ballintrane, Fenagh, Co. Carlow:

Class 11.4
(b) Recovery, or a mix of recovery and disposal, of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities, (other than activities to which the Urban Waste Water Treatment Regulations 2001 (S.I. No. 254 of 2001) apply):

i. biological treatment;
ii. pre-treatment of waste for incineration or co-incineration;
iii. treatment of slags and ashes;
iv. treatment in shredders of metal waste, including waste electrical and electronic equipment and end-of-life vehicles and their components.

Class 11.1
The recovery or disposal of waste in a facility, within the meaning of the Act of **1996,** which facility is connected or associated with another activity specified in this Schedule in respect of which a licence or revised licence under Part **IV** is in force or in respect of which a licence under the said Part is or will be required.

The AER is prepared in accordance with the requirements as set out in Schedule F of the Licence.

The AER details the site activities from the 1st of January 2016 to the 31st of December 2016.

2. WASTE ACTIVITIES CARRIED OUT AT THE FACILITY

For the purposes of the EU Industrial Emissions Directive (2010 2010/75/EU), this installation falls within the scope of the following Annex I category:

Category 5.3 (b): Recovery, or a mix of recovery and disposal, of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities, and excluding activities covered by Directive 91/271/EEC:

i. biological treatment;
ii. pre-treatment of waste for incineration or co-incineration;
iii. treatment of slags and ashes;
iv. treatment in shredders of metal waste, including waste electrical and electronic equipment and end-of-life vehicles and their components.

When the only waste treatment activity carried out is anaerobic digestion, the capacity threshold for this activity shall be 100 tonnes per day.

The Industrial Emissions licence, granted in October, 2015 authorises O'Toole Composting to accept 60,000 tonnes of waste including biowaste (and other biodegradable waste), sewage sludge, industrial non-hazardous sludges/solids, municipal solid waste and construction and demolition waste.

Waste activities authorised to take place at the installation include: waste treatment and transfer, composting of biodegradable waste, and aerobic biological treatment of waste. Wastes may be received in fully covered vehicles and can only be unloaded inside the appropriate reception building. All waste processing and storage will occur indoors. Buildings containing putrescible waste will be maintained under negative air pressure. Extracted air will be treated before discharge to atmosphere.

The facility is operated and managed in accordance with the conditions of Licence W0284-01.

There are no process emissions to water or sewer from the installation. Surface water from the paved areas of the installation is discharged via a silt trap and class one full retention interceptor to the Tinnaclash Stream.

3. WASTE QUANTITIES, RECORDS & RECOVERY REPORT

All waste accepted at the facility is accepted in accordance with the Waste Acceptance, Handling and Rejection Procedure (EM005). All staff are aware of the waste acceptance procedure and it is followed to ensure the non-acceptable waste is not accepted at the facility.

All waste entering the facility is weighed on the facility weighbridge. All waste details are recorded on the weighbridge software (Precia Molen Genesys) including the vehicle registration, date, time, waste description, LoW code, haulier/ driver name and gross weight. Once the load has been tipped and accepted at the facility, the tare weight is recorded on the

weighbridge and this automatically generates the nett weight of the waste. All waste records are electronically recorded on the weighbridge software. All waste records are available for inspection.

All loads entering the facility are inspected on entry to the facility and again after unloading to ensure that the waste is acceptable.

The maximum tonnage to be accepted at the facility is 60,000 tonnes per annum as detailed in Schedule A.2.

Non-hazardous Waste Type		Maximum (Tonnes Per Annum)
Composting and aerobic biological treatment	Biowaste and other biodegradable waste	40,000
	Sewage Sludge	
	Industrial Non-Hazardous Sludges	
	Industrial Non-Hazardous Solids	
	Municipal Solid Waste	
Waste Transfer	Construction & Demolition	20,000
	Commercial & Industrial	
	Municipal Solid Waste	
Total		**60,000**

Table 1: Acceptable Waste Types as per Schedule A.2 of Licence W0284-01

During the reporting period, the following waste types and quantities were accepted at the facility. A.2 of the Licence.

Incoming Waste Types & Quantities

Waste Type	LoW Code	Tonnage
Bakery & Confectionary Waste	02 06 01	9.52
Non-hazardous Solid Waste	07 05 14	6.40
Non-hazardous Solid Waste	07 05 99	10.64
Wood Chip	17 02 01	198.67
Glass	17 02 02	1.46
Gypsum	17 08 02	41.61
Wood Chip	19 12 07	137.16
Dry Recyclables	20 03 01	1,719.60
Food Waste	20 01 08	15,862.43
WEEE	20 01 36	2.86
Metal	20 01 40	0.62
Green Waste	20 02 01	275.30
Mixed Municipal Waste	20 03 01	7,713.80
Bulky Waste	20 03 07	2,984.23
Horse Bedding	02 01 05	53.50
Rubble	17 01 01	275.05
Total		**29,292.84**

Table 2: Incoming Waste Types & Quantities 2016

Outgoing Waste Types & Quantities

Waste Type	LoW Code	Tonnage
Waste Oil	13 02 08	0.48
Waste Tyres	16 01 03	12.32
Wood Waste	17 02 01	328.84
Gypsum	17 08 02	71.88
Biostabilized Waste	19 05 99	27.42
Organic Fines	19 12 12	28.76
Non-composted Fraction Waste	19 05 01	236.03
Compost Like Output	19 05 99	943.88
Mixed Plastic	19 12 04	2.70
C&D Fines	19 12 12	808.18
Processed Waste	19 12 12	2,031.28
Dry Recyclables	20 03 01	1,837.92
WEEE	20 01 36	34.00
Metal	20 01 40	169.60
Green Waste	20 02 01	45.44
Mixed Municipal Waste	20 03 01	6,941.30
Bulky Waste	20 03 07	3.72
Compost		3,552.56
Rejected Load		6.46
Rubble	17 01 01	542.18
Total		**17,624.95**

Table 3: Outgoing Waste Types & Quantities 2016

All waste that was consigned from the facility was consigned by appropriately authorised waste collectors and transferred to appropriately authorised waste facilities. A register of all waste hauliers and waste destinations along with the associated waste collection permit, waste facility permit or waste licence is maintained at the facility.

All waste is processed to ensure that the maximum amount of waste is recovered. Various waste streams are consigned offsite for further recovery. In 2016, 3,552.56 tonnes of compost was produced at the facility. Compost like output was 943.88 tonnes. Bio stabilised waste was 27.42 tonnes. The destinations to which compost was dispatched from the facility is commercially sensitive information and is maintained on file at the facility. This information may be inspected and will be provided to the EPA on request.

No trade effluent leachate was transported offsite during 2016. All leachate produced on-site was reused as part of the composting process. No contaminated storm water was produced during the reporting period.

4. EMISSIONS FROM THE FACILITY

All monitoring was carried out in accordance with monitoring requirements as set out in Schedule C: Control & Monitoring of Industrial Emissions Licence W0248-01 or as agreed with the Agency.

Environmental monitoring and laboratory testing was carried out in 2016 by the following companies:

- IAS Laboratories, Unit 4 Bagenalstown Business Park, Bagenalstown, Co.Carlow.
- Axis Environmental Services, Unit 5 Caherdavin Business Centre, Ennis Road, Limerick.

Control of Emissions to Air

Emissions from the bio filters are monitored by the Facility Manager on a monthly basis using Draeger tubes. Results are detailed in Table 4 below.

Bed Media Monitoring is carried out on a monthly basis for percentage moisture. PH content, ammonia and total viable counts are monitored on a bi-annual basis. All monitoring results are summarised in Tables 4 and 5 below.

Parameter	Ammonia	Mercaptans	Hydrogen Sulphide	Amines
Date	mg/m3	mg/m3	mg/m3	mg/m3
January (22/01/2016)	18.7	0	0	0
February (09/02/2016)	22.5	0	0	0
March (16/03/2016)	7.5	0	0	13
April (26/04/2016)	18.7	0	0	13
May (28/05/2016)	7.5	0	0	0
June (14/06/2016)	7.5	0	0	0
July (15/07/2016)	0	0	0	0
August (15/08/2016)	11.2	0	0	0
September (12/09/2016)	3.75	0	0	0
October (19/10/2016)	3.75	0	0	0
November (21/11/2016)	3.75	0	0	0
December (20/12/2016)	7.5	0	0	0

Table 4: Biofilter Monitoring Results Summary 2016

	Moisture content (%)	pH	Ammonia (mg/l)	Total Viable Counts (CFU/g)
Frequency	**Monthly**	**Bi-annually**	**Bi-annually**	**Bi-annually**
25/01/2016	68.2			
12/02/2016	57.7			
04/03/2016	61.7			
08/04/2016	66.2			
06/05/2016	60.04	5.4	0.8	420
09/06/2016	56.9			
05/07/2016	72.5			
03/08/2016	66.9			
09/09/2016	71.4			
11/10/2016	70.7	7.1	0.5	2000000
05/11/2016	69.8			
12/12/2016	72.8			

Table 5: Bed Media Monitoring Results Summary 2016

Emissions to Water

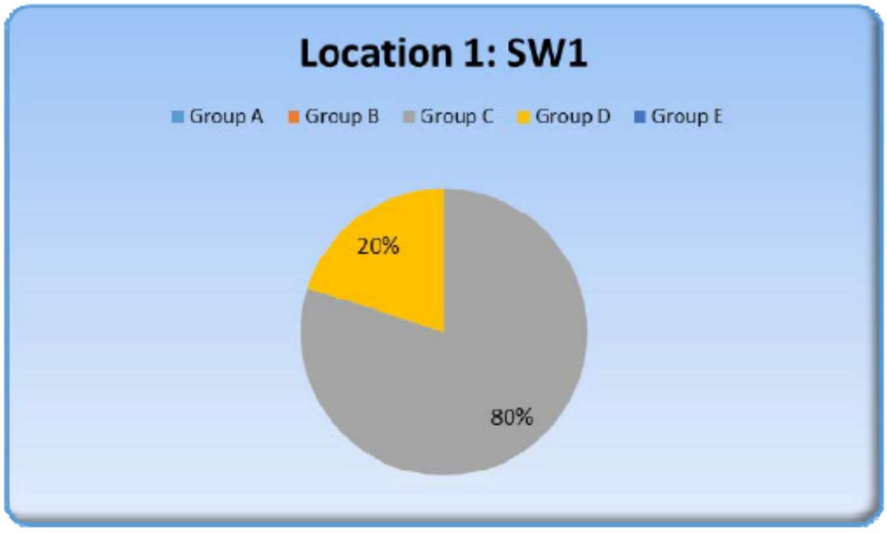
Table 6 below summarises monitoring results for emissions to storm water at the storm water discharge point (S1). Storm water monitoring point S1 was installed in October, 2016.

Storm Water	Monitoring Details	Monitoring Results		
Parameter	**ELV**	**October 2016**	**November 2016**	**December 2016**
COD (mg/l)	_	<1	10	14
BOD (mg/l)	2.6mg/l	<1	2	2
Suspended Solids (mg/l)	35mg/l	6	1	40
Total Nitrogen (as N)	50mg/l	1.6	10.3	10.2
Conductivity (µs/cm)	1000µs/cm	668	611	609
Mineral Oil (ug/l)	_	<10	<10	<10
Ammonia Nitrogen (mg/l NH3 -N)		0.05	0.1	0.22
Total Phosphorus (mg/l P)		0.07	0.1	0.08
Sulphate (mg/l SO4)	_	18.09		

Table 6: Storm Water Emissions Summary 2016 (S1)

Tables 7 and 8 below summarise the biological assessment carried out at receiving water monitoring points SW1 and SW2 which are located. This assessment was carried out by Axis Environmental Ltd on the 23rd of September 2016.

WQ1			
Group	**Total Numbers**	**Relative Abundance %**	**Abundance Category**
A	0	0	Absent
B	0	0	Absent
C	44	80.0	Excessive
D	11	20.0	Common
E	0	0	Absent



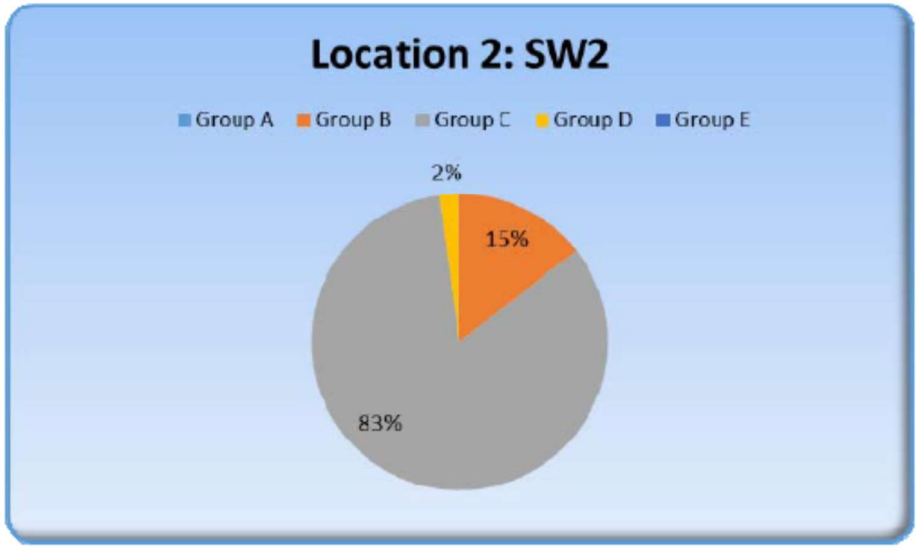
Q Value Determined –Q2- Q3 (Moderately Polluted)

This part of the stream has recently been modified, due to the installation of a pipe from O'Toole's Composting facility there is a poor variety of macroinvertebrate species. The species will regenerate over time at this section of the stream.

Cladophora spp	None	**Macrophytes**	None
Sewage Fungus	None	**DO %**	99.0
BOD	<2	**Ortho Phosphate**	-
Temperature	12.5	**Bank Width**	2.0 m
Depth	0.11 m	**BMWP Score**	-
Wet Width	1.5 m	**Filamentous Algae**	None
Velocity	Slow	**Colour**	Clear
Clarity	Clear	**Discharge**	None
Modifications	New Discharge Pipe	**Dominant types**	None
Slope	Very Slight	**Geology**	Mixed
Substratum Condition	Good	**Substratum**	Mostly Mud
Degree of Siltation	Low	**Depth of Mud**	0.5m
Litter	None	**Stream Flow**	Glide
Main land use u/s	Composting/ Agriculture	**Sample Minutes**	2min + Stone wash

Table 7: Biological Assessment of SW1

WQ2			
Group	**Total Numbers**	**Relative Abundance %**	**Abundance Category**
A	0	0	Absent
B	13	14.4	Small
C	75	83.3	Excessive
D	2	2.2	Few
E	0	0	Absent



Q Value Determined – Q3 (Moderately Polluted)

Cladophora spp	None	**Macrophytes**	None
Sewage Fungus	None	**DO %**	94.4
BOD	<2	**Ortho Phosphate**	-
Temperature	13.0	**Bank Width**	1.5
Depth	0.04 m	**BMWP Score**	-
Wet Width	0.8 m	**Filamentous Algae**	None
Velocity	Slow	**Colour**	Clear
Clarity	Clear	**Discharge**	None
Modifications	None	**Dominant types**	None
Slope	Slight	**Geology**	Mixed
Substratum Condition	Good	**Substratum**	Pebbles, Stone and silt
Degree of Siltation	Low	**Depth of Mud**	0
Litter	None	**Stream Flow**	Riffle
Main land use u/s	Landfill/ Agriculture	**Sample Minutes**	2min + Stone wash

Table 8: Biological Assessment of SW2

Noise Monitoring

Noise monitoring is required to be carried out on an annual basis under conditions of Industrial Emissions Licence W0248-01.

Noise monitoring was carried out on the 24/11/2016 by Axis Environmental Ltd. All noise emissions were within the emission limit values as set out in the licence with the exception of N4 Daytime noise. The ELV is 50dB and an emission of 51dB was recorded. This noise was attributed to offsite traffic as detailed in the noise monitoring report.

	Monitoring Results - 24/11/2016							
Location	**ELV**	**N1**	**N1A**	**N2**	**N3**	**N4**	**N5**	**N6**
Daytime dB LAr,T 30 Mins	**50**	46	49	43	42	48	42	44
Evening dB LAr,T 30 mins	**50**	47	44	41	41	51	38	46
Night-time dB LAeq,T 15-30 mins	**45**	33	38	38	32	31	32	27

Table 9: Noise Monitoring Results Summary 2016

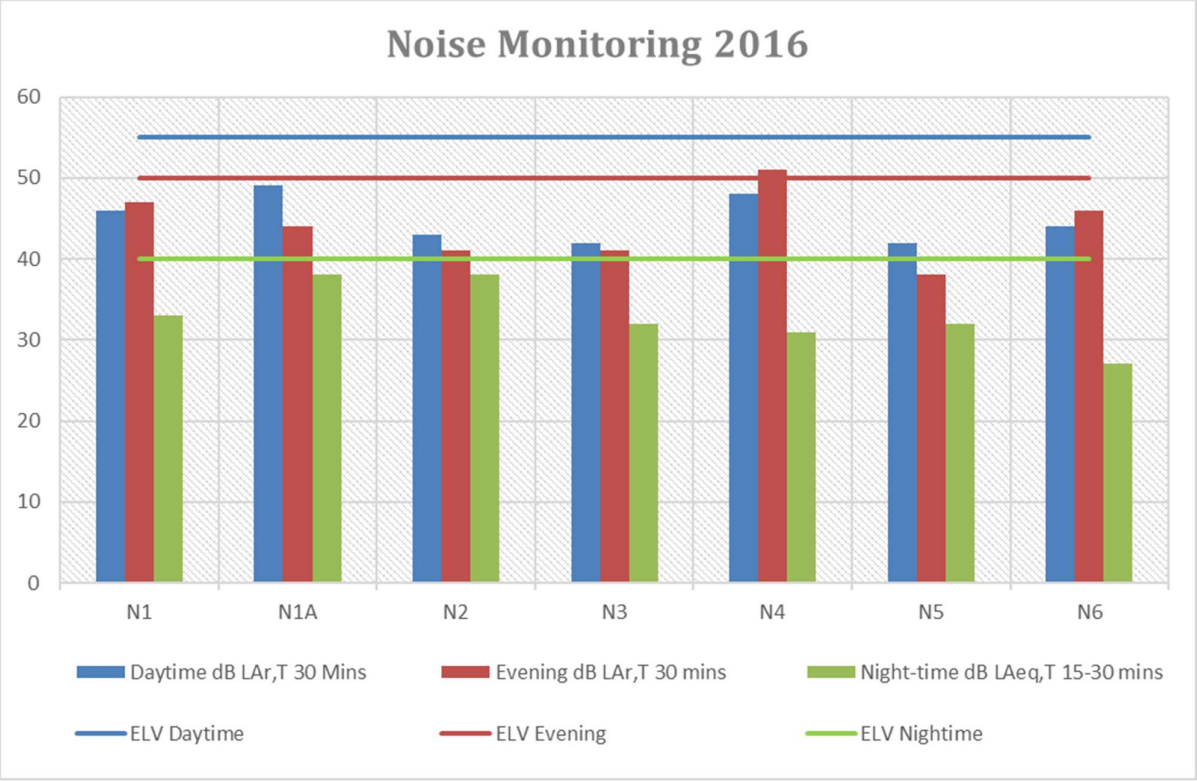


Figure 1: Noise Monitoring Results Summary with Emission Limits Graph

Dust Monitoring

In accordance with Schedule C of the Licence, dust monitoring is required to be carried on a quarterly basis at the facility. The emission limit value is 350mg/m2/day. As can be seen in Table 10 all results were within the specified limits. Table 11 sets out the quarterly micro-organism and odour monitoring carried out at the facility by Axis Environmental Ltd. There was an exceedance of the odour emission limit value recorded in December, 2016. It is noted that an upgrade of the biofilter on site is currently in progress in order to ensure odour emissions are within licence limits at the facility.

Parameter	ELV	Loca-tion	04/01/2016	04/03/2016	08/06/2016	21/11/2016
Dust deposition	350mg/m2/day	D1	52.9	57.7	134.2	25.7
Dust deposition	350mg/m2/day	D2	21.0	57.1	96.4	91.2
Dust deposition	350mg/m2/day	D3	57.1	55.0	144.7	40.9

Table 10: Dust Emission Results Summary 2016

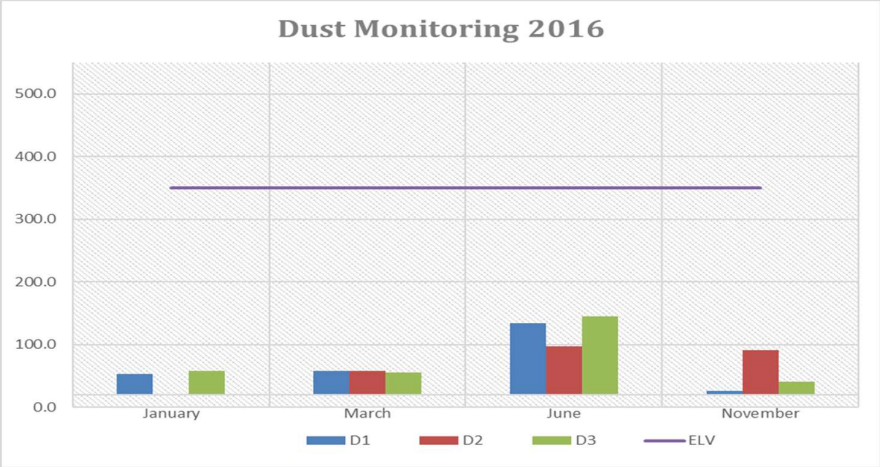


Figure 2: Dust Deposition Summary with Emission Limit Graph

Parameter	ELV	Location	Q1 2016	Q2 2016	Q3 2016	Q4 2016
Aspergillus Fumigatas	None	Upwind	None detected	None detected	None detected	None detected
Aspergillus Fumigatas	None	Downwind	None detected	None detected	None detected	None detected
Bacteria	None	Upwind	42 CFU/m3	120 CFU/m3	<469.5 CFU/m3	83 CFU/m3
Bacteria	None	Downwind	164 CFU/m3	172 CFU/m3	<469.5 CFU/m3	595 CFU/m3
Odour	1000 (OuE m-3)		912 (OuE m-3)			

Table 11: Micro-organisms Summary 2016

Groundwater monitoring results are summarised in Table 12. The substances monitored in the annual monitoring of hazardous substances were identified during a risk based

assessment carried out by Envirologic Ltd. This document and results of monitoring are maintained at the facility.

Ground Water	Monitoring Details		Monitoring Results		
Parameter	**Location GW-1**	**Units**	**23/12/2015**	**06/05/2016**	**11/10/2016**
PH	Biannually	pH units	7.2	7.3	7.2
COD	Biannually	mg/l	3	13	<1
Nitrate	Biannually	mg/l NO3	-	38.28	45.76
Total Ammonia	Biannually	mg/l NH3	-	0.06	0.01
Total Nitrogen	Biannually	mg/l	8.1	8.9	10.7
Conductivity	Biannually	uS/cm 20°C	598	883	895
Chloride	Biannually	mg/l	27.18	91.65	95.66
Fluoride	Biannually	mg/l	0.41	0.56	-
Ammonia Nitrogen		mg/l NH3-N	0.02	-	-
E Coli		MPN/100ml	<1.0	-	-
Nitrate Nitrogen		mg/l NO3-N	6.82	-	-
Total coliforms		MPN/100ml	<1.0	-	-
Iron		ug/l	-	-	<20

Table 12: Groundwater Monitoring Summary 2016

5. COMPLAINTS SUMMARY

During the course of 2016, two complaints were received in relation to the facility operation. The complaints were received on the 11/05/2016 and the 17/09/2016. Both complaints related to odour. All complaints were investigated and reported to the EPA as per the Complaints Handling Procedure.

A complaints folder is maintained on-site, showing details of any complaints and follow up investigations.

6. REPORTED INCIDENTS SUMMARY

There was one reportable incident during the reporting period which related to exceedance in emission limit values set out in the licence for surface water emissions on the monthly monitoring data for December 2016. This incident was reported to the EPA and was fully

investigated by the operator. Fully compliant monitoring results have been recorded for the first quarter of 2017 for each monthly surface water monitoring.

7. EMS PROCEDURES

The Environmental Management System (EMS) was updated throughout 2016. All procedures were updated to ensure relevancy to the IE Licence. Table 11 below details the current EMS procedures that have been developed for the facility.

Document Reference	Procedure Title
EMP001	Corrective Action Procedure
EMP002	Training Procedure
EMP003	Communications Procedure
EMP004	Maintenance and Inspections Procedure
EMP005	Waste acceptance, handling and rejection Procedure
EMP006	Emergency Response and Incidents Procedure
EMP007	Waste Storage Procedure
EMP008	Complaints Procedure
EMP009	Daily & Weekly Inspection Procedure

Table 13: List of EMS Procedures

A full copy of all procedures, including all latest revisions are maintained on-file at the facility.

8. REVIEW OF NUISANCE CONTROLS

The facility and facility surrounds are inspected on a daily and weekly basis to ensure that vermin, birds, flies, litter, mud, dust and odours do not give rise to nuisance at the facility or facility surrounds. All inspections records are maintained at the facility and are available for inspection. Any potential nuisance identified during the site inspections is addressed without delay by the Facility Manager or nominated deputy.

9. MANAGEMENT STRUCTURE

The Management Structure of the facility is detailed in Figure 3. The proposal for facility management was submitted to the Agency during 2016. Phil Kelly was nominated as the Deputy Facility Manager in 2016.

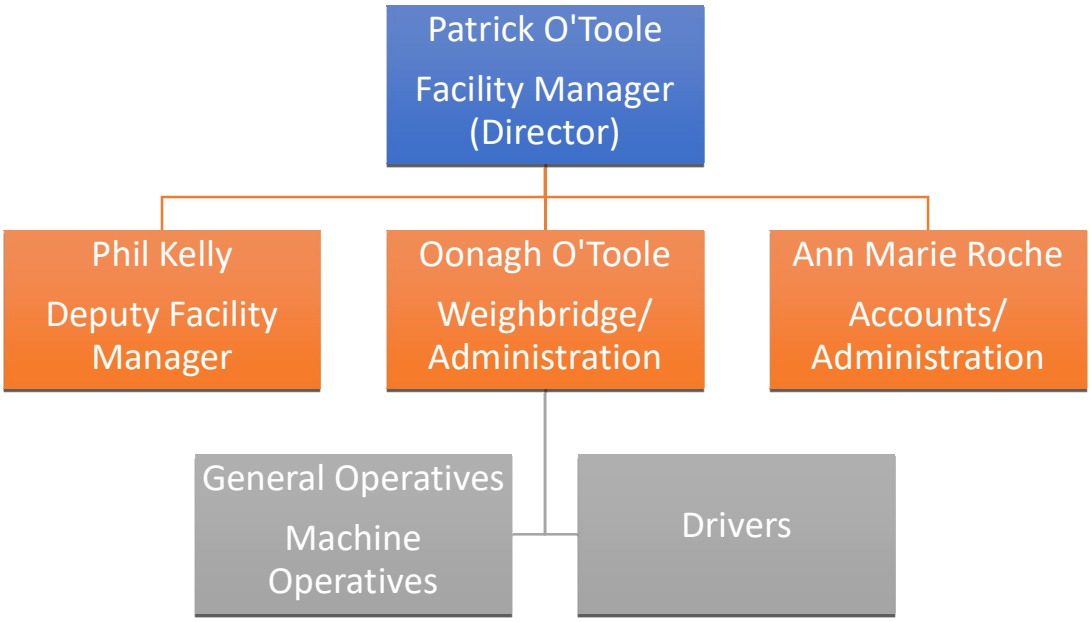


Figure 3: Management Structure 2016

10. PROGRAMME FOR PUBLIC INFORMATION

A programme for public information is in place at the facility. Any interested party wishing to view this public file is advised to make an appointment with the Facility Manager. A suitable time will be arranged for the viewing of the files and a room will be provided.

This file available as part of the public information programme include the EPA IE Licence, facility layout plan, the environmental policy, EMS Manual, environmental monitoring results and a monitoring location map. A copy of the previous year's AER will also be maintained on the file. EPA inspection reports and correspondence is available on the EPA website at www.epa.ie.

In 2016, there were no requests made by any interested parties to view files at the facility.

11. FINANCIAL PROVISIONS, ENVIRONMENTAL LIABILITIES & DECOMMISSIONING

In 2016 an Environmental Liabilities Risk Assessment (ELRA) and a Closure, Restoration and Aftercare Management Plan (CRAMP) were completed for the facility by Enviroguide Consulting. Both of these documents were submitted to the Agency for agreement or approval. Once these documents have been reviewed and agreed by the Agency, a proposal for financial provisions will be put in place by O'Toole Composting.

12. ENERGY EFFICIENCY AND RESOURCE CONSUMPTION

Energy Efficiency Audit

An Energy Audit was conducted by Pat Duke of Integrated Engineering Consultancy Ltd on the 21st of October 2016. This report assessed current energy usage and efficiency at the facility. Recommendations were made on where energy efficiencies could be approved upon. These recommendations will be reviewed by the Facility Manager during the first quarter of 2017 and will be incorporated into the objectives and targets for the facility where deemed appropriate.

Resource Consumption Summary 2016

The following summarises resource consumption at the facility in 2016. Water used in the process is re-circulated leachate.

Electricity:

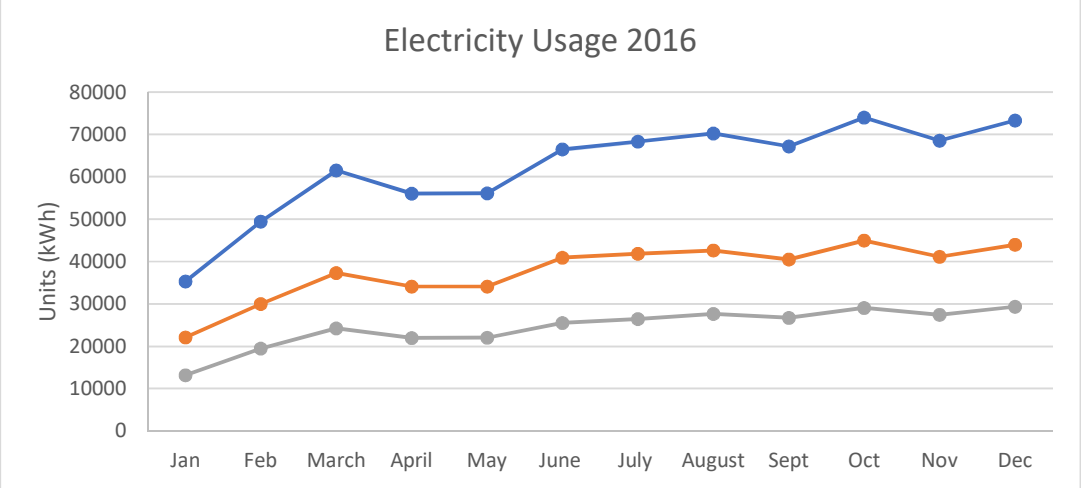


Figure 4: Electricity Consumption 2016

Fuel:

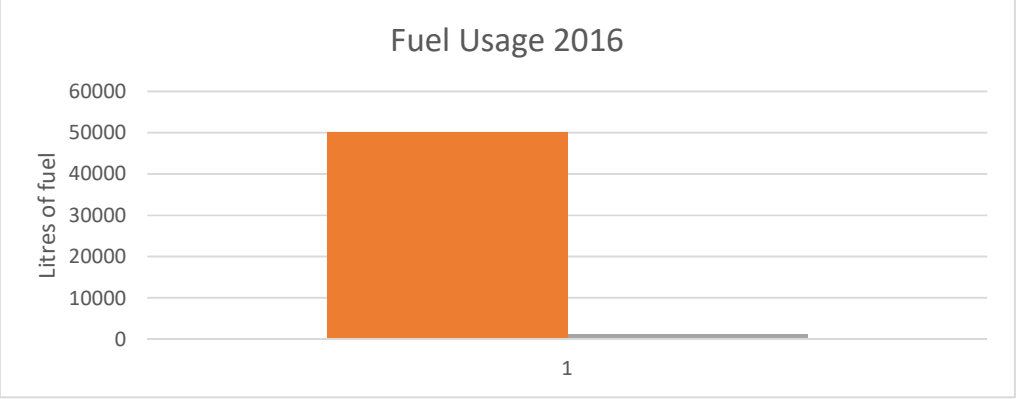


Figure 5: Fuel Consumption 2016

13. OBJECTIVES & TARGETS

The Environmental Objectives and Targets for 2017 were set and agreed as part of the EMS for the facility. Table 12 shows a summary of the proposed Objectives and Targets.

The Schedule of Objectives & Targets set targets for a five-year period from 2016-2020. This schedule will be reviewed annually and any amendments made will be notified to the Agency. The schedule also details the person responsible for ensuring that the targets are met.

Table 14: Summary of Objectives & Targets 2016 to 2020

	Objective	Target	Responsible Person	2016	2017	2018	2019	2020
1	**To improve facility infrastructure**	1. Upgrade and extend the concrete hardstand in the CA site area. This will help prevent surface water runoff from the site and reduce the potential for dust emissions during the summer months. 2. Construct a new kerbing around the waste storage areas as necessary to ensure that runoff from these areas does not enter the storm water runoff 3. Install new ACO drains around concreted waste storage area to ensure effective runoff from facility yard areas. 4. Install an oil separator at the facility to improve the quality of water discharge from the facility. 5. Install a silt trap at the facility to improve the quality of water discharge from the facility. 6. Further improve the security on-site	Facility Manager					

2	**Reduce Waste as per Waste Hierarchy**	1. Review all on-site waste operations so that waste generation will be prevented or reduced. 2. Set internal waste reduction targets. 3. Increase recycling rates on-site. The CA site will be further upgraded to improve accessibility for the public, improved labelling and painting of containers. Additional recycling containers will be added to increase storage and provide a highly efficient recycling service.	Facility Manager					
3	**Enhance Current Training Programme**	1. Carry out an assessment of training needs of all staff on-site. 2. Provide training or refresher training to all staff as deemed necessary.	Facility Manager					
4	**Environmental Management System**	1. Implement a comprehensive EMS for the facility 2. Improve and develop EMS on-site to ensure that it remains current with changing operations of the facility	Deputy Facility Manager					
5	**Review On-site Operations**	Review of all operations and processes and 1. Carry out energy audit at the facility. Include an evaluation of practicable options for energy and resource efficiency. 2. Evaluate the use of cleaner technology and cleaner production.	Facility Manager / Energy Auditor					

6	**Odour Abatement**	1. Review the necessity for an odour abatement systems on-site. Invest in new equipment as required. 2. Upgrade on-site bio-filter 3. Extend existing bio-filter	Facility Manager					
7	**Visual Impact**	1. Carry out a review of the visual impact of the facility. 2. Enhance the aesthetic appearance of the facility surrounds e.g. maintain hedging and lawn areas	Facility Manager					
8	**Waste & Resource Reduction**	Upgrade accounts software so that paperless billing can be used reducing the volume of paper used and potential for waste generation.	Facility Manager / Accounts / Administration					
9	**Minimise Water demand on-site**	Minimise water demand on-site and the potential for trade effluent discharges onsite through: 1. Continue the recirculation of leachate into the composting process 2. Commence rainwater harvesting on-site.	Facility Manager					

14. DEVELOPMENT / INFRASTRUCTURAL WORKS SUMMARY

A specified engineering works (SEW) was submitted to the Agency in 2016 for the construction of the new biofilter on the biological treatment building. Once approved by the Agency, it is expected that these works will be completed in 2017.
A significant investment has been made at the facility in 2016 in order to repair and upgrade concreting at the facility as well as the installation of a silt trap and class one full retention interceptor in order to protect ground and surface water.

No other developmental or infrastructural works took place during the reporting period.

Appendix 1 -PRTR

Guidance to completing the PRTR workbook

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2016

1. FACILITY IDENTIFICATION

Parent Company Name	O'Toole Composting Limited
Facility Name	O'Toole Composting Limited
PRTR Identification Number	W0284
Licence Number	W0284-01

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Ballintrane
Address 2	Fenagh
Address 3	Co. Carlow
Address 4	
	Carlow
Country	Ireland
Coordinates of Location	-6.82993154752.75343471
River Basin District	IESE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Patrick O Toole
AER Returns Contact Email Address	patrick@otoolecomposting.ie
AER Returns Contact Position	Facility Manager / Director
AER Returns Contact Telephone Number	0599148984
AER Returns Contact Mobile Phone Number	0862647990
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	10
User Feedback/Comments	Composted material is dispatched as a product and is therefore not recorded in the waste out data
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(c)	Installations for the disposal of non-hazardous waste

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	No
Have you been granted an exemption ?	No
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	n/a
Is the reduction scheme compliance route being used ?	n/a

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) ?	Yes

This question is only applicable if you are an IPPC or Quarry site

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
06	Ammonia (NH3)	E	ESTIMATE		0.0	82.01	0.0	82.01

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* 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		METHOD			QUANTITY						
			Method Used								
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
210	Dust	E	ESTIMATE		0.0	0.0	0.0	0.0	76.0	0.0	76.0
		E			0.0	0.0	0.0	0.0	0.0	0.0	0.0
		E			0.0	0.0	0.0	0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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 on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill: O'Toole Composting Limited

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

4.2 RELEASES TO WATERS

Link to previous years emissions data

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO WATERS	
POLLUTANT	
No. Annex II	Name

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS	
POLLUTANT	
No. Annex II	Name

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

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

RELEASES TO WATERS	
POLLUTANT	
Pollutant No.	Name

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

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should N

			Please enter all quantities in this section in KGs	
	Method Used			
M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year
			0.0	0.0

) then click the delete button

			Please enter all quantities in this section in KGs	
	Method Used			
M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year
			0.0	0.0

) then click the delete button

			Please enter all quantities in this section in KGs	
	Method Used			
M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year
			0.0	0.0

) then click the delete button

06/04/2017 12:00

OT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

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

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					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

4.4 RELEASES TO LAND

Link to previous years emissions data

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND	
POLLUTANT	
No. Annex II	Name

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

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

RELEASES TO LAND	
POLLUTANT	
Pollutant No.	Name

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

			Please enter all quantities
METHOD			
	Method Used		
M/C/E	Method Code	Designation or Description	Emission Point 1
			0.0

) then click the delete button

			Please enter all quantities
METHOD			
	Method Used		
M/C/E	Method Code	Designation or Description	Emission Point 1
			0.0

) then click the delete button

in this section in KGs	
QUANTITY	
T (Total) KG/Year	A (Accidental) KG/Year
0.0	0.0

in this section in KGs	
QUANTITY	
T (Total) KG/Year	A (Accidental) KG/Year
0.0	0.0

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes 0

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	13 02 08	Yes	0.48	other engine, gear and lubricating oils	R9	M	Weighed	Offsite in Ireland	Enva Ireland Limited,W0184-02	Clonminam Industrial Estate,,,Portlaoise,County Laois,Ireland	Enva Ireland Limitied,W0184-02,Clonminam Industrial Estate,,,Portlaoise,County Laois,Ireland	Clonminam Industrial Estate,,,Portlaoise,County Laois,Ireland
Within the Country	16 01 03	No	12.32	end-of-life tyres	R13	M	Weighed	Offsite in Ireland	K Mooney Ltd t/a WTCS,WFP-KK-13-0003-02	Earlsgarden ,Attanagh,,,County Kilkenny,Ireland		
Within the Country	17 02 01	No	219.24	wood	R13	M	Weighed	Offsite in Ireland	Peter Joseph Barry (Enrich Environmental),WFP-MH-08-0004-02	Larch Hill Stud,Newtownrathganley,Kilcock,County Meath,Ireland		
Within the Country	17 02 01	No	109.6	wood	R13	M	Weighed	Offsite in Ireland	Padraig Thornton Waste Disposal LTD,W0044-02	Kileen Road,,,Ballyfermot,Dublin 10,Ireland		
Within the Country	17 08 02	No	52.74	gypsum-based construction materials other than those mentioned in 17 08 01	R13	M	Weighed	Offsite in Ireland	Enviro Grind Ltd,WFP-DL-11-0004-01	Donegal Road,,,Pettigo,County Donegal,Ireland		
Within the Country	17 08 02	No	10.14	gypsum-based construction materials other than those mentioned in 17 08 01	R13	M	Weighed	Offsite in Ireland	G&J O'Neill Enterprises t/a Allied Waste,WFP-WM-2010-0001-02	Clonmellon Industrial Estate,Clonmellon ,,,County Westmeath,Ireland		
Within the Country	19 05 99	No	27.42	wastes not otherwise specified	D5	M	Weighed	Offsite in Ireland	Bord Na Mona PLC (Drehid Waste Management Facility),W0201-03	Killinagh Upper,Carbury,,,County Kildare,Ireland		
Within the Country	19 12 12	No	28.76	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R13	M	Weighed	Offsite in Ireland	Peter Joseph Barry (Enrich Environmental),WFP-MH-08-0004-02	Larch Hill Stud,Newtownrathganley,Kilcock,County Meath,Ireland		
Within the Country	19 05 01	No	236.03	non-composted fraction of municipal and similar wastes	D5	M	Weighed	Offsite in Ireland	Bord Na Mona PLC (Drehid Waste Management Facility),W0201-03	Killinagh Upper,Carbury,,,County Kildare,Ireland		
Within the Country	19 05 99	No	943.88	wastes not otherwise specified	D5	M	Weighed	Offsite in Ireland	Bord Na Mona PLC (Drehid Waste Management Facility),W0201-03	Killinagh Upper,Carbury,,,County Kildare,Ireland		
Within the Country	19 12 04	No	2.7	plastic and rubber	R13	M	Weighed	Offsite in Ireland	Irish Polymer Extrustions Ltd,WFP-LS-13-0001-01	Unit 20,Bay Road Business Park,Bay Road Mountmellick,County Laois,Ireland		
Within the Country	19 12 12	No	733.86	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R13	M	Weighed	Offsite in Ireland	Bord Na Mona PLC (Drehid Waste Management Facility),W0201-03	Killinagh Upper,Carbury,,,County Kildare,Ireland		
Within the Country	19 12 12	No	74.32	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R13	M	Weighed	Offsite in Ireland	Ballynagran Landfill Ltd,W0165-02	Ballynagran ,Coolbeg and Kilcandra ,,,County Wicklow,Ireland		
Within the Country	19 12 12	No	1500.74	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R13	M	Weighed	Offsite in Ireland	Padraig Thornton Waste Disposal LTD,W0044-02	Kileen Road,,,Ballyfermot,Dublin 10,Ireland		
Within the Country	19 12 12	No	407.66	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R13	M	Weighed	Offsite in Ireland	Nurendale Ltd (Panda Waste),W0039-02	Ballymount Cross,,,Tallaght,Dublin 24,Ireland		
Within the Country	20 03 01	No	1837.92	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Advanced Environmental Solutions Ireland Ltd,W0104-03	Cappancur Industrial Estate,Cappancur,Tullamore, County Offaly,Ireland		
Within the Country	20 01 36	No	34.0	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R13	M	Weighed	Offsite in Ireland	WEEE Ireland Collection Point,,	.,.,.,.,Ireland		
Within the Country	20 01 40	No	169.6	metals	R13	M	Weighed	Offsite in Ireland	Midland Scrap Metal Company Ltd,WFP-T-16-0001-01	Annagh,,,Birr,County Offaly,Ireland		
Within the Country	20 02 01	No	45.44	biodegradable waste	R13	M	Weighed	Offsite in Ireland	Bord Na Mona Kilberry,W0198-01	Kilberry,,,Athy,County Kildare,Ireland		
Within the Country	20 03 01	No	624.78	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Ballynagran Landfill Ltd,W0165-02	Ballynagran ,Coolbeg and Kilcandra ,,,County Wicklow,Ireland		
Within the Country	20 03 01	No	456.92	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Powerstown Landfill Site,W0025-04	Kilkenny Road,,,,County Carlow,Ireland		
Within the Country	20 03 01	No	646.36	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Bord Na Mona PLC (Drehid Waste Management Facility),W0201-03	Killinagh Upper,Carbury,,,County Kildare,Ireland		
Within the Country	20 03 01	No	566.18	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Glanway Limited,P1015-01	Units 5 and 6,Belview Port,Gorteens,Slieverue County Kilkenny,Ireland		
Within the Country	20 03 01	No	171.78	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Knockharley Landfill Limited,W0146-03	Knockharley,,,Navan,County Meath,Ireland		
Within the Country	20 03 01	No	4477.66	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Advanced Environmental Solutions Ireland Ltd,W0194-02	Kyletalesha & Kyleclonhobert,Portlaoise,,,County Laois,Ireland		
Within the Country	20 03 07	No	3.72	bulky waste	D5	M	Weighed	Offsite in Ireland	Bord Na Mona PLC (Drehid Waste Management Facility),W0201-03	Killinagh Upper,Carbury,,,County Kildare,Ireland		
Within the Country	07 05 14	No	6.46	solid wastes other than those mentioned in 07 05 13	R13	M	Weighed	Offsite in Ireland	Indaver Ireland Limited,W0167-03	Carranstown,Duleek,,,County Meath,Ireland		
Within the Country	17 01 01	No	542.18	concrete	R13	M	Weighed	Offsite in Ireland	Conway Concrete Ltd,WFP-CW-13-2-B	Kildavin,,,,County Carlow,Ireland		

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

Link to previous years waste data
Link to previous years waste summary data & percentage change
Link to Waste Guidance