Unit 15 Melbourne Business Park Model Farm Road Cork



E:info@ocallaghanmoran.com www.ocallaghanmoran.com T: 021 434 5366

ANNUAL ENVIRONMENTAL REPORT

ORMONDE ORGANICS LTD

KILLOWEN,

PORTLAW,

CO. WATERFORD

LICENCE NO. W0287-01

JANUARY 2017 – DECEMBER 2017

Prepared For: -

Ormonde Organics Limited, Killowen, Portlaw, Co. Waterford

Prepared By: -

O' Callaghan Moran & Associates, Unit 15 Melbourne Business Park, Model Farm Road, Cork.

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O'Callaghan Moran & Associates Registration/VAT Number: 8272844U

Project	Annual Environmental Report 2017				
Client	Ormonde Organics Limited W0287-01				
Report No	Date	Status	Prepared By	Reviewed By	
1930104	18/09/2018	Draft	Martina Gleeson PhD	Jim O'Callaghan MSc	
	21/09/2018	Final	Martina Gleeson PhD	Jim O'Callaghan MSc	

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APPENDIX 1 - European Pollutant Release and Transfer Register

1. INTRODUCTION

This is the 2017 Annual Environmental Report (AER) for the Ormonde Organics Ltd (Ormonde Organics) composting and anaerobic digestion installation at Killowen, Portlaw, County Waterford. The installation operates under an Industrial Emission Licence (IED) (W0287-01) which was granted by the Environmental Protection Agency (Agency) in October 2016. The report covers the period from the 1st January 2017 to the 31st December 2017.

The content of the AER is based on Schedule F of the Waste Licence (W0287-01) and the report format follows guidelines set in the "*Guidance Note for Annual Environmental Report*" issued by the Agency¹. Cognisance was also taken of the AER Draft Guidance Document issued in January 2012².

¹ EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental

Management Systems and Reporting to the Agency

² EPA (Environmental Protection Agency) 2012 Draft AER Guidance Document

2. SITE DESCRIPTION

2.1 Site Location and Layout

The installation is located at Killowen, approximately 3km north of Portlaw. The River Suir is approximately 350 metres from the north-eastern site boundary. The regional route R680 runs along the western boundary of the site and links Portlaw village to the south with Carrick-on-Suir to the north-west. The surrounding area is mainly agricultural land and individual dwellings.

The installation is divided into two sections, one area houses the compost building, weighbridge and administration building. This area is surrounded by palisade fencing and is accessed via a security gate. The second area is also surrounded by palisade fencing and accessed by a separate security gate. This area houses the Anaerobic digester (AD) tanks, combined heat and power (CHP) generator and a drier building.

2.2 Waste Management Activities

The licence allows Ormonde Organics to accept of 40,000 tonnes of organic waste annually, which includes:

- Municipal wastewater treatment sludge,
- Household biodegradable kitchen and canteen waste,
- Other biodegradable waste (Garden & Park Waste), and
- Septic Tank Sludge.
- Non-hazardous industrial and water treatment sludge.

2.2.1 Waste Types & Processes

Composting is carried out inside the main building, which has offices at the front. The kitchen wastes include materials defined as animal by-products (raw and cooked meats) and Ormonde Organics has obtained approval from the Department of Agriculture, Fisheries and Marine for approval to process these wastes.

The sludges are mixed with woodchip and then loaded into specially constructed compost bays in the Compost Building. The bays have pipes in the floor, through which air is pumped up into the mixture of sludge and woodchip. The objective is to maintain a high oxygen level in the mixture to encourage oxygen using (aerobic) bacteria to grow and feed on the organic matter.

Anaerobic digestion is carried out in purpose built digesters. The wastes are fed into large fully enclosed tanks, which are continuously stirred and the temperature rises to the optimal level. The gases are drawn off and treated and fed to on-site gas engines which generate electricity and heat. The residue from the process includes a fibre like solid and a liquid (digestate). The solid residue and digestate, which contain nutrients, are used on farmland as an alternative to chemical fertilisers. The incoming waste and digestate are stored in above ground tanks.

Condition 6.2 and Schedule C of the Licence requires the monitoring of surface water, groundwater, dust, noise and air. Monitoring at the installation began in the second quarter 2017. The monitoring locations are shown on Figure 3.1. The results are submitted to the Agency at quarterly intervals and this section presents an overview of the monitoring completed in the reporting period.

3.1 Surface Water Monitoring

SW-1 is the discharge point from the installation. Stormwater from the roofs and paved areas is collected in the installation's surface water drainage system and discharged via an oil interceptor to a pipe that outfalls to the River Suir. The locations are shown on Figure 3.1.

The monitoring results are presented in Table 3.1. There are no emission limit values set in the Licence Table includes, for comparative purposes, the environmental quality standards (EQS) for a river water body assigned 'Good Status' in the Surface Water Environmental Objectives (Surface Water) Regulations 2009 (SI 272 of 2009). An EQS is not emission limit value, but is a quality objectives to be achieved in specified water bodies. An exceedance of an EQS in a surface water discharge does not mean that the emission is of environmental significance, as this is determined by the assimilative capacity of the receiving water.

Parameter	Units	2 nd Quarter 2017	3 rd Quarter 2017	4 th Quarter 2017	EQS
pH	pH Units	8.21	7.30	7.62	4.5-9.0
COD	mg/l	26	36	27	-
BOD	mg/l	8	3	4	1.5-2.6
TSS	mg/l	19	<10	22	-
Total Ammonia	mg/l	0.66	0.16	3.56	0.065-0.14
Total Nitrogen	mg/l	5.8	2.4	10.4	-
Conductivity	mS/cm	0.454	0.288	0.336	-
Mineral Oil	mg/l	< 0.01	< 0.01	< 0.01	-
Sulphate	mg/l	18.1	16.2	25	-

Table 3.1	Results SW-1 2017
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The EQS for ammonia was exceeded during all monitoring events, while the EQS for BOD was exceeded in the first quarter 2017. Given the dilution capacity in the receiving water course the emissions were not of environmental significance.

3.2 Groundwater Monitoring

The programme specified in the Licence includes monitoring of the on-site drinking water well (GW-1) and two off site wells BH-1 and GW-2. The sampling locations are shown on Figure 3.1. OCM could not locate off-site well BH-1 listed in Schedule C 6.2 of the Licence. There is a pump in GW-2 and Ormonde Organics use water from this well in the process. The sample from GW-1 was taken from a pipe fitted with a tap and the sample from GW-2 was taken from a tap at the side of the biofilter building.

There are no emission limits set in the Licence and therefore the results are compared to the Threshold Values for groundwater (GTV) quality introduced by the European Communities Environmental Objectives (Groundwater) Regulations 2010 S.I. No. 9 of 2010.

The IGV levels represent typical background or unpolluted conditions; however levels higher than the IGV can occur naturally, depending on the local geological and hydrogeological conditions. While the Threshold Values are more appropriate for large scale abstraction wells used for potable supply, they can be used to assess the significance of contamination where present in groundwater. Because not all parameters monitored have been assigned Threshold Values, the relevant IGV continue to be used for comparative purposes.

The results are presented in Tables 3.2 and 3.3. The groundwater quality is good and there is no evidence of any impact downgradient of the installation.

Parameter	Units	Q2	Q4	TV	IGV
Total Ammonia	mg/l	< 0.03	< 0.03	0.065-0.175	-
Electrical Conductivity	mS/cm	0.597	0.425	1.875	1.000
pН	pH Units	8.06	7.89	-	6.5 - 9.5
Chloride	mg/l	16.6	17.5	24-187.5	30
Fluoride	mg/l	< 0.3	< 0.3	_	1.0
Sulphate	mg/l	11.3	10.9	187.5	200
Nitrate	mg/l	16.4	15.8	37.5	25
Ortho Phosphate	mg/l	< 0.06	< 0.06	-	0.03
BOD	mg/l	<1	<1	_	-
COD	mg/l	<7	<7	_	-
Total Nitrogen	mg/l	4.8	4.6	_	NAC
Total Suspended Solids	mg/l	<10	56	_	-
Total Petroleum Hydrocarbons	mg/l	<0.01	<0.01	-	0.01

Table 3.2 Groundwater results GW-1 2017

Parameter	Units	Q2	Q4	TV	IGV
Total Ammonia	mg/l	< 0.03	< 0.03	0.065-0.175	-
Electrical Conductivity	mS/cm	0.702	0.494	1.875	1.000
pH	pH Units	8.02	7.65	-	6.5 - 9.5
Chloride	mg/l	18.7	19.3	24-187.5	30
Fluoride	mg/l	< 0.3	<0.3	-	1.0
Sulphate	mg/l	16.5	17.8	187.5	200
Nitrate	mg/l	16.4	16.1	37.5	25
Ortho Phosphate	mg/l	< 0.06	0.14	-	0.03
BOD	mg/l	1	<1	-	-
COD	mg/l	<7	<7	-	-
Total Nitrogen	mg/l	5.0	4.7	-	NAC
Total Suspended Solids	mg/l	<10	<10	-	-
Total Petroleum	ma/1	<0.01	<0.01		0.01
Hydrocarbons	mg/1	<0.01	<0.01	-	0.01

Table 3.3 Groundwater results GW-2 2017

3.3 Noise Monitoring

The annual noise survey was conducted in November. The survey consisted of daytime, evening and night-time monitoring at four onsite stations. The survey was conducted when the site was fully operational and confirmed that noise emissions fully complied with the licence and that the facility is not impacting negatively on the nearest sensitive receptors. Although the licence does not specify offsite measurement locations, spot checks undertaken in the vicinity of two dwellings after the daytime and night-time surveys indicated that facility emissions were not audible, and were in compliance with specified limits. A summary of the noise results is shown on Table 3.4.

Station	Date	Time	Wind	L _{Aeq T}	L _{AF10 T}	L _{AF90 T}	Specific	
	20.11.17	1016 1046	vector	dB	dB 62	dB 47	LAeq T dB	
	29.11.17 Facility: Sporadi	1010-1040	X Aments audibl	o at low leve	1 Air manag	4/	4/	
AN1	Facility : Sporadic trucks movements audiole at low level. All management system at composi building continuously audible at low level.							
day 1/3	Extraneous: Res	gular R680 ti	raffic movem	ents entirely	dominant, a	nd audible fo	or some distance on	
	approaches. Aircr	aft, and local	birdsong. Ligh	ntly rustling ve	egetation.			
	Specific LAeq T de	etermination:	L90 reasonab	ly representat	ive of air man	agement syste	em.	
	29.11.17	1148-1218	Х	57	61	46	46	
AN1	Facility: As previ	ous.						
day 2/3	Extraneous: As p	previous.						
	Specific LAeq T de	etermination:	As previous.		(2)	47	47	
A NTI	29.11.17	1321-1351	X	57	62	4/	4/	
ANI day 3/3	Facility: As previ	ous.						
uay 5/5	Specific LAge T de	termination.	As previous					
	29.11.17	2138-2208	x	53	57	41	41	
	Facility: Air man	agement syste	m at S end of	composting b	uilding contin	uously audibl	e at low level.	
ANI	Extraneous: Inte	rmittent R680	traffic domin	ant when pre	esent, and aud	lible on exten	ded approaches. N24	
eve 1/1	traffic also slightl	y audible. Air	craft.	-				
	Specific LAeq T de	etermination:	L90 represent	tative.	1	1		
	29.11.17	2329-2344	Х	47	47	39	39	
AN1	Facility: As previ	ous.						
night 1/2	Extraneous: As p	orevious.	•					
	Specific LAeq T de	0022 0047	As previous.	16	44	20	20	
AN1	Eacility: As previ	0052-0047	Λ	40	44	39	39	
night $2/2$	Extraneous: As r	ous. previous. R68() traffic now r	educed to spo	radic.			
	Specific LAeg T de	etermination:	As previous.	course to spor				
	29.11.17	1010-1040	-	61	64	46	<56	
	Facility: Several	truck moveme	ents on adjace	nt access road	d, and accessi	ng nearest bui	ilding, clearly audible	
	when present. Several gate opening/closing movements nearby clearly audible During traffic lulls, air							
AN2	management system audible at low level.							
day 1/3	Extraneous: Reg	gular R680 tr	affic entirely	dominant wh	hen present, a	and audible f	or some distance on	
	Specific LAga T	determinatio	\mathbf{n} Not poss	ible to deriv	ing K000 luns	eq due to t	raffic intrusion L10	
	unrepresentative	of traffic, as al	so influenced	by site trucks	. Traffic entir	elv dominant.	thus site contribution	
	at least 5 dB lowe	r that Leq.		-)		,,		
	29.11.17	1153-1223	-	61	63	48	57	
AN2	Facility: As previ	ous, including	g truck idling a	at 20 m to 120	9.			
day 2/3	Extraneous: As p	previous.						
	Specific LAeq T de	etermination:	Leq to 1209 c	considered rep	presentative, no	ormalised to 3	0 min.	
	29.11.17	1329-1359	-	59	63	4/	<54	
	opening/closing n	ovements neg	rents on auja	dible During t	raffic hills air	udible when	system audible at low	
AN2	level.	lovements nea	indy clearly au	dible During (itanne tunis, an	management	system addible at low	
day 3/3	Extraneous: Regular R680 traffic entirely dominant when present, and audible for some distance on							
•	approaches. N24	traffic to NE a	lso audible at	low level duri	ing R680 lulls	. Bird song/ca	lls, and aircraft.	
	Specific LAeq T de	etermination:	Not possible	to derive spe	cific Leq due	to traffic intr	usion. Traffic entirely	
	dominant, thus sit	e contribution	at least 5 dB	lower that Lee	1 .			
	29.11.17	2143-2213		53	57	39	36	
	Facility: Continue	ous air manage	ement emissio	ons audible at	low level.	lible on avter	dad annraahaa N24	
AN2	traffic also slight	rmittent Kosu	r more extend	ant when pre	Aircraft Doc	horking occur	sionally audible to E	
eve 1/1	Whine from facili	ty several hun	dred metres to	N continuou	sly audible at	low level		
	Specific LAeg T de	termination:	L90 not entire	ly representati	ve, due to inte	rference from	N24 traffic and whine	
	to N. Specific Leo	estimated at	50 % contribu	tor to L90.	,			
	29.11.17	2334-2349	-	47	45	37	34	
AN2	Facility: As previ	ous.						
night 1/2	Extraneous: As p	previous. R680) traffic reduci	ng.				
	Specific LAeq T de	etermination:	As previous.	16	10	1.05		
1 110	29.11.17	0037-0052	-	46	43	37	34	
AN2	Facility: As previ	OUS.) traffic now a	poradic				
- ingitt 2/2	Specific LANT de	termination	As previous	poraule.				
	Specific DAcy I ut	wei minativil.	1 is previous.					

Table 3.4Noise Monitoring Results 2017

Station	Date	Time	Wind vector	L _{Aeq T} dB	L _{AF10 T} dB	L _{AF90 T} dB	Specific L _{Aeq T} dB	
	29.11.17	1107-1136	Х	53	55	48	49	
	Facility: Tan	ker unloading	at 100 m conti	nuously audibl	e at low level.	No other noise	e audible, apart from	
	truck approaching measurement position at 1136, requiring termination of measurement to allow access.							
AN3	Extraneous: R680 traffic continuously quite audible in distance. N24 traffic to NE also continuously							
day 1/3	audible at lov	w level. Whine	from facility	on hillside sev	eral hundred n	netres NW cor	ntinuously audible at	
	low level. Ai	rcraft and local	birdsong.					
	Specific LAeq	ат determinat	ion: L90 unrep	presentative of	tanker unloadi	ng due to traff	ic and offsite whine,	
	and therefore	calculated by	subtracting ext	raneous Leq le	vel measured	during subsequ	ient interval.	
	29.11.17	1239-1309	Х	51	53	46	<46	
	Facility: Tan	ker unloading	operation at SI	E corner slight	ly audible con	tinuously until	1255, in addition to	
AN3	faintly audibl	e water flow in	nearby manho	ole.				
day 2/3	Extraneous:	As previous.			· ·			
	Specific LAeg	1 T determinati	on: Audible er	missions insuff	icient to influe	nce L90 due to	extraneous sources,	
	thus <l90 de<="" th=""><th>rivation possib</th><th>le only.</th><th>51</th><th>52</th><th>46</th><th>.4.6</th></l90>	rivation possib	le only.	51	52	46	.4.6	
A NI2	29.11.17	1415-1445	X	51 51	33 1: -1-411:h	40	<40	
ANS day 3/3	Facility: As	As previous	tanker unioadii	ing at SE corne	r singinity audit	ne from 1421.		
uay 5/5	Extraneous.	As previous.	ion: As previou	10				
	29 11 17	2229-2259	v	46	48	41	<41	
	Eacility: Con	ntinuous emiss	ions from one	or more fan	sources slight	tly audible W	ater flow in nearby	
AN3	manhole also	slightly audib	le.	or more run	sources singin	ily addible. W	ater now in nearby	
eve 1/1	Extraneous:	R680 and N24	traffic almost	continuously of	clearly audible	. in addition to	quite audible whine	
	to N. Aircraft	t, and dog bark	ing to E.			,	1	
	Specific LAeo	T determinati	ion: L90 domin	nated by traffic	and whine. <i< td=""><td>.90 contributio</td><td>on determined.</td></i<>	.90 contributio	on determined.	
	29.11.17	2301-2316	Х	43	45	40	<40	
AN3	Facility: As	previous.	· · · · ·					
night 1/2	Extraneous:	As previous.						
	Specific LAeq	т determinati	ion: As previou	18.				
	29.11.17	0005-0020	Х	44	47	40	<40	
AN3	Facility: As p	previous.						
night 2/2	Extraneous:	As previous.						
	Specific L _{Aeq}	1 T determinati	on: As previou	15.	~ -	<i>(</i> 2	<i>(</i>)	
	29.11.17	1055-1125		64	65	62	64	
A NIA	Facility: Regular forklift truck operations on adjacent yard dominant when present, in addition to sporadic							
AIN4	Facility: Reg	ular forklift tru	a amonations al	an andihla Na	anhar ana anain	aa aantinyaayal	v algority and blo	
day 1/3	truck movem	ular forklift tru ents. Inbuildin	g operations al	so audible. Ne	arby gas engin	es continuousl	y clearly audible.	
day 1/3	truck movem Extraneous:	gular forklift tru ents. Inbuildin None audible.	g operations al	so audible. Ne	arby gas engin	es continuousl	y clearly audible.	
day 1/3	Facility : Reg truck movem Extraneous : Specific L Aeq 29.11.17	gular forklift tru ents. Inbuildin None audible. T determinat i 1233-1303	g operations al	so audible. Ne sentative. 72	arby gas engin	es continuousl	y clearly audible.	
day 1/3	racinty: Reg truck movem Extraneous: Specific LAec 29.11.17 Facility: Tan	ular forklift tru ents. Inbuildin None audible. T determinati 1233-1303 iker unloading	g operations al on: Leq repres	so audible. Ne sentative. 72 ely dominant to	arby gas engin 75 1255, with e	es continuousl 63 missions code	y clearly audible. 72	
AN4 day 1/3	Facility : Reg truck movem Extraneous : Specific LAeed 29.11.17 Facility : Tan flare unit to 1	ular forklift tru ents. Inbuildin None audible. T determinati 1233-1303 ker unloading 247. Emission	g operations al on: Leq repres 0 on yard entire s otherwise as	so audible. Ne sentative. 72 ely dominant to previous.	arby gas engin 75 o 1255, with e	63 emissions code	72 prinant from nearby	
AN4 day 1/3 AN4 day 2/3	racinty: Reg truck movem Extraneous: Specific Laeo 29.11.17 Facility: Tan flare unit to 1 Extraneous:	ular forklift truents. Inbuildin None audible. T determinati 1233-1303 Iker unloading 247. Emission None audible.	operations al on: Leq repres 0 on yard entire s otherwise as	so audible. Ne entative. 72 ely dominant to previous.	arby gas engin 75 o 1255, with e	63 missions code	72 prinant from nearby	
AN4 day 1/3 AN4 day 2/3	racinty: Reg truck movem Extraneous: Specific LAee 29.11.17 Facility: Tan flare unit to 1 Extraneous: Specific LAee	ular forklift truents. Inbuildin None audible. T determinat 1233-1303 ker unloading 247. Emission None audible. T determinat	operations al on: Leq repres 0 on yard entire s otherwise as on: As previou	so audible. Ne sentative. 72 sly dominant to previous. 1s.	arby gas engin 75 o 1255, with e	63 missions code	72 minant from nearby	
AN4 day 1/3 AN4 day 2/3	Facility: Reg truck movem Extraneous: Specific LAee 29.11.17 Facility: Tan flare unit to 1 Extraneous: Specific LAee 29.11.17	ular forklift truents. Inbuildin None audible. T determinat 1233-1303 ker unloading 247. Emission None audible. T determinat 1411-1441	operations al on: Leq repres 0 on yard entire s otherwise as on: As previou 0	so audible. Ne sentative. 72 ely dominant to previous. 15. 67	75 0 1255, with e	63 missions codc	72 minant from nearby	
AN4 day 1/3 AN4 day 2/3 AN4	racinty: Reg truck movem Extraneous: Specific LAee 29.11.17 Facility: Tan flare unit to 1 Extraneous: Specific LAee 29.11.17 Facility: Tan	ular forklift truents. Inbuildin None audible. T determinati 1233-1303 ker unloading 247. Emission None audible. T determinati 1411-1441 ker unloading	operations al on: Leq repres 0 on yard entire s otherwise as on: As previou 0 nearby entirely	so audible. Ne sentative. 72 ely dominant to previous. 15. 67 dominant fron	75 0 1255, with e 70 1421. Yard ad	63 missions code 62 ctivity and gas	72 ominant from nearby 67 engines also audible.	
AN4 day 1/3 AN4 day 2/3 AN4 day 3/3	Facility: Reg truck movem Extraneous: Specific LAee 29.11.17 Facility: Tan flare unit to 1 Extraneous: Specific LAee 29.11.17 Facility: Tan flare unit to 1 Extraneous: Specific LAee 29.11.17 Facility: Tan Extraneous: Extraneous:	ular forklift truents. Inbuildin None audible. T determinati 1233-1303 Iker unloading 247. Emission None audible. T determinati 1411-1441 ker unloading I None audible.	operations al on: Leq repres 0 on yard entire s otherwise as ion: As previou 0 nearby entirely	so audible. Ne sentative. 72 ely dominant to previous. 15. 67 dominant fron	75 0 1255, with e 70 1421. Yard ad	63 missions code 62 ctivity and gas	72 ominant from nearby 67 engines also audible.	
AN4 day 1/3 AN4 day 2/3 AN4 day 3/3	Facility: Reg truck movem Extraneous: Specific LAee 29.11.17 Facility: Tar flare unit to 1 Extraneous: Specific LAee 29.11.17 Facility: Tar flare unit to 1 Extraneous: Specific LAee 29.11.17 Facility: Tan Extraneous: Specific LAee Specific LAee	ular forklift truents. Inbuildin None audible. T determinat i 1233-1303 Iker unloading 247. Emission None audible. T determinat i 1411-1441 ker unloading I None audible. T determinat i	operations g operations al ion: Leq repres 0 on yard entire s otherwise as ion: As previou 0 nearby entirely ion: As previou	so audible. Ne entative. 72 ely dominant to previous. 18. 67 dominant fron 18.	75 0 1255, with e 70 1 1421. Yard ad	63 missions codc 62 ctivity and gas	72 minant from nearby 67 engines also audible.	
AN4 day 1/3 AN4 day 2/3 AN4 day 3/3	Facility: Reg truck movem Extraneous: Specific L _{Aec} 29.11.17 Facility: Tan flare unit to 1 Extraneous: Specific L _{Aec} 29.11.17 Facility: Tan Extraneous: Specific L _{Aec} 29.11.17	ular forklift truents. Inbuildin None audible. T determinati 1233-1303 iker unloading 247. Emission None audible. T determinati 1411-1441 ker unloading None audible. T determinati 2225-2255	operations al operations al on: Leq repres 0 on yard entire s otherwise as ion: As previou 0 nearby entirely on: As previou 0	so audible. Ne sentative. 72 ely dominant to previous. 18. 67 dominant fron 15. 62	75 0 1255, with e 70 1 1421. Yard ac 62	63 missions code 62 etivity and gas 61	72 72 minant from nearby 67 engines also audible. 62	
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3.4 Dust Monitoring

Dust monitoring is carried out quarterly at four on-site locations (AD-1, AD-2, AD-3 and AD-4). Monitoring commenced in Q2 2017 and the results of the monitoring are included on Table 3.5.

The dust emission limit $(350 \text{ mg/m}^2/\text{day})$ was not exceeded during the monitoring period.

Dust Emission (mg/m²/day) Sample Location	Q2	Q3	Q4	Emission Limit (mg/m²/day)
AD-1	110	87	117	350
AD-2	48	98	<10	350
AD-3	139	128	148	350
AD-4	58	47	43	350

Table 3.7Dust Monitoring Results 2017



4. SITE DEVELOPMENT WORKS

4.1 Specified Engineering Works

In 2017 the following engineering works were carried out: a second gate valve was installed at the sump in Q1; a new holding tank and pipe work from the tank to the second biofilter was installed; the bunded oil tank was moved and a bunded tank for AdBlu and waste oil were also installed. Site development works planned for 2018 include:

• Review of biofilter woodchip levels.

4.2 Summary of Resource & Energy Consumption

Table 4.1 presents an estimate of the resources used on-site during the reporting period and in 2016.

Resources	Quantities 2016	Quantities 2017
Diesel (green)	30,000 litres	111,915 litres
Electricity	610,000 kWh	2,613,454 kWh
Hydraulic & Engine Oil	200 litres	0 litres
AdBlu	1,000 litres	0 litres
Sulphuric Acid	0 Tonnes	118.1 Tonnes

Table 4.1Estimate of Resources Used On-Site 2017

5. WASTE RECEIVED AND CONSIGNED FROM THE INSTALLATION

Table 5.1 shows the total quantities of waste received and consigned from the installation in 2017. A breakdown of the waste types is provided in accordance with the EPA's Waste Classification (2015). A more detailed description of the wastes consigned is provided in the PRTR return in Appendix 1. The installation transforms all waste accepted into a product and therefore there is no waste consigned from the installation. For comparative purposes the amounts of waste received and consigned from 2016 are presented in Table 5.2.

EWC	Description	Waste In	Waste Out
02 02 03	Waste of animal origin unsuitable for consumption or processing	1,657.69	
02 02 04	Sludges from on-site effluent treatment (animal industry)	4,051.53	
02 05 01	Waste of dairy origin unsuitable for consumption or processing	2,226.94	
02 05 02	Sludges from on-site effluent treatment (dairy industry)	4,598.28	
02 06 01	Waste of bakery origin unsuitable for consumption or processing	145.68	
02 06 03	Sludges from on-site effluent treatment (baking/confectionery industry)	1,393.78	
02 07 01	Waste from cleaning and mechanical treatment of materials (beverage industry)	199.34	
02 07 04	Waste from beverage industry unsuitable for consumption or processing	2,056.96	
02 07 05	Sludges from on-site effluent treatment (beverage industry)	1,425.30	
15 01 07	Glass Packaging		6.80
17 09 04	C&D Inert Mixed		50.80
19 08 05	Sludges from WWTP	9,779.90	
20 01 08	Biodegradable kitchen & canteen waste	7,397.10	
20 01 25	Edible oil and fat	2,716.73	
20 01 38	Wood		6.06
20 03 01	MSW Municipal Mixed		227.64
20 03 07	C&I Dry Mixed		41.608
	Total Received	37,649.24	
	Total Consigned		332.908
	Recovery		332.908
	Disposal		0
	Recovery Rate		100%

Table 5.1Waste Received & Consigned 2017

EWC	Description	Waste In	Waste Out
02 02 03	Waste of animal origin unsuitable for consumption or processing	137.18	
02 02 04	Sludges from on-site effluent treatment (animal industry)	1,358.18	
02 05 01	Waste of dairy origin unsuitable for consumption or processing	321.43	
02 05 02	Sludges from on-site effluent treatment (dairy industry)	1,293.52	
02 06 01	Waste of bakery origin unsuitable for consumption or processing	211.48	
02 06 03	Sludges from on-site effluent treatment (baking/confectionery industry)	237.3	
02 07 01	Waste from cleaning and mechanical treatment of materials (beverage industry)	33.78	
02 07 04	Waste from beverage industry unsuitable for consumption or processing	539.70	
02 07 05	Sludges from on-site effluent treatment (beverage industry)	494.98	
19 08 05	Sludges from WWTP	7480.60	
20 01 08	Biodegradable kitchen & canteen waste	1,586.34	
20 01 25	Edible oil and fat	678.51	
	Total Received	14,373	
	Total Consigned		0
	Recovery		0
	Disposal		0
	Kecovery Kate		0
1			

Table 5.2Waste Received & Consigned 2016

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There were no reportable incidents at the installation in 2017.

6.2 Register of Complaints

Ormonde Organics maintains a register of complaints received at the installation offices. There was one complaint about odour received in 2017.

7. ENVIRONMENTAL DEVELOPMENT

7.1 Environmental Management Programme Report

The proposed Schedule of Objectives and Targets for 2017 (Table 7.1) are presented below.

7.1.1 Site Management Structure

Management and Staffing structure: -

Name:Denis MullallyResponsibility:Facility ManagerExperience:Over 10 years' experience in the Waste Management industry as manager
of EPA licenced facilities. Has completed the FÁS Waste Management
course.

Name:	Pat Cormack
Responsibility:	Environmental Officer; Carries out the environmental sampling,
Experience	landbank preparation and reports for customers. Has worked with Ormonde Organics since 2005 has a degree in
Experience.	Agricultural Science. Has completed Waste Collection Permit training with NWCPO and HACCP training.

7.1.2 Staff Training

Environmental training is carried out for any new staff employed at the installation as required. Copies of all training records are held in the installation office.

7.2 Environmental Management Programme

7.2.1 Schedule of Objectives 2017

The schedule of targets and objectives for 2017 are presented in Table 7.1.

7.2.2 Schedule of Objectives 2018

The schedule of targets and objectives for 2018 are presented in Table 7.2.

7.3 Communications Programme

Ormonde Organics is committed to ensuring environmental compliance in all operations. To this end Ormonde Organics has drawn up a Communications Programme, which details how members of the public are facilitated in accessing and viewing environmental information at the installation. Members of the public who wish to inspect these files may do so at any reasonable time by making an appointment with the Operations Manager using the telephone number posted on the main installation entrance sign.

Table 7.1Schedule of Objective and Targets 2017

No.	Objective	Target	Timescale	Responsibility	Status
1	Reduce Water Consumption	Reduce the on-site consumption of water via rainwater harvesting	Q3	Site Management	Ongoing - Trial successfully completed in Biogas plant
2	Energy Audit	Carry out Energy Audit at the installation	Q2	Site Management	Site Audit completed in Q4 2017.
3	Upgrade Storage Areas	Upgrade the chemical and fuel storage areas	Q2	Site Management	Fuel storage area upgraded with new bunds. Chemical bunds to be upgraded in 2018.
4	Emergency response procedures	Complete Emergency Response Procedure and ensure that all information & equipment required in case of an emergency is available. Confirm that relevant staff training adequately addresses.	Q4	Site Management/EHS	Commenced, Worksafe Solutions appointed to update the ERP.
5	CRAMP, ELRA & Financial Provision	CRAMP, ELRA & Financial Provision to be carried out	Q2/Q3	EHS team	OCM have been commissioned to update the ELRA in 2018.

Table 7.2Schedule of Objective and Targets 2018

No.	Objective	Target	Timescale	Responsibility
1	Reduce Water Consumption	Expand existing rainwater harvesting IBC's	Q2	Site Management
2	Energy Audit	Review the Energy Audit from Urban Volt	Q1	Site Management
3	Upgrade Storage Areas	Upgrade the chemical and fuel storage areas	Q2	Site Management
4	Emergency response procedures	Complete ERP procedure via Worksafe solutions	Q2	Site Management/EHS
5	CRAMP, ELRA & Financial Provision	CRAMP, ELRA & Financial Provision Update CRAMP, ELRA & Financial Provision		EHS team

7.4 Report Financial Provision

An updated Closure and Decommissioning Plan and an Environmental Liabilities Risk Assessment (ELRA) including Financial Provision (FP) will be submitted to the Agency for their approval in 2018.

7.5 Nuisance Controls

Ormonde Organics has contracted a vermin control company to carry out nuisance control at the installation. Prevent a Pest provide pest control at the installation and also provide for the treatment of insects at the installation if necessary. A site inspection is carried out daily and recorded on the installation's inspection. These assessments were carried out in a manner consistent with the Agency Guidance Note for EPA Licensed Sites (AG5).

7.6 Foul water Volume Transported Off-Site

No wastewater was removed from site in 2017. Approximately 400 m^3 of wastewater was generated at the installation in 2017, this was re-used in the composting process.

7.7 Summary of Flare usage

The flare runtime for 2017 was 39 hours.

8. OTHER REPORTS

8.1 European Pollutant Release and Transfer Register Regulation

Under the European Pollutant Release and Transfer Register Regulation (EC) No. 166/2006 GES are required to submit information annually to the Agency. A copy of the return submitted to the Agency via the web-based data reporting system is included in Appendix 1.

APPENDIX 1

European Pollutant Release and Transfer Register



| PRTR# : W0287 | Facility Name : Ormonde Organics Limited (Portlaw) | Filename : W0287_2017.xls | Return Year : 2017 |

Guidance to completing the PRTR workbook

PRTR Returns Workbook

REFERENCE YEAR 2017

1. FACILITY IDENTIFICATION

Parent Company Name	Ormonde Organics Limited
Facility Name	Ormonde Organics Limited (Portlaw)
PRTR Identification Number	W0287
Licence Number	W0287-01

Classes of Activity

No. class_name - Refer to PRTR class activities below

Address 1	Killowen
Address 2	Portlaw
Address 3	
Address 4	
	Waterford
Country	Ireland
Coordinates of Location	-7.30808008699995 52.311138403
River Basin District	IESE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Pat Cormack
AER Returns Contact Email Address	pcormack@ormondeorganics.ie
AER Returns Contact Position	Environmental Officer
AER Returns Contact Telephone Number	051567024
AER Returns Contact Mobile Phone Number	0878206757
AER Returns Contact Fax Number	051567005
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	
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?	
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

| PRTR# : W0287 | Facility Name : Ormonde Organics Limited (Portlaw) | Filename : W0287_2017.xls | Return Year : 2017 | Page 1 of 2

Do you import/accept waste onto your site for on-	
site treatment (either recovery or disposal	
activities) ?	

4.1 RELEASES TO AIR Link to previous years emissions data

| PRTR# : W0287 | Facility Name : Ormonde Organics Limited (Portlaw) | Filename : W0287_2017.xls | Return Year : 2017 |

21/09/2018 16:08

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities	in this section in KG	S	
PO	LUTANT			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 PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities	in this section in KG	is		
PO	LLUTANT	METHOD QUANTITY							
				Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accident	al) 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 Pla					Please enter all quantities	in this section in KG	s		
POLLUTANT			MET	THOD	QUANTITY				
			Ν	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

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:	Ormonde Organics Limited (Portlaw)				•					
Please enter summary data on the quantities of methane flared and / or utilised			Meth	od Used						
			Meth	Designation or	Facility Total Capacity m3					
	T (Total) kg/Year	M/C/E	Method Code	Description	per hour					
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	PRTR# : W0287 Facility Name : Ormonde Organics Limited (Portlaw) Filename : W0287_2017.xls Return Year : 2017 21/09/2018 16:08										
SECTION A : SECTOR SPECIFIC PR	TR POLLUTANTS	Data on a	mbient monitoring	of storm/surface water or ground	water, conducted as part of	your licence requiremer	nts, should NOT be sub	mitted under	AER / PRTR Reporting as			
	RELEASES TO WATERS		Please enter all quantities in this section in KGs									
						QUANTITY						
			Method Used									
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Ye	ar A (Accidenta	I) 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

	RELEASES TO WATERS	Please enter all quantities in this section in KGs						
POI	LUTANT						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

* 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 WATERS		Please enter all quantities in this section in KGs								
POL	LUTANT						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			

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data | PRTR#: W0287 | Facility Name : Ormonde Organics Limited (Portlaw) | Filename : W0287_2017.x 21/09/2018 16:09

SECTION A : PRTR POLLUTANTS

OFFSITE TRAN	SFER OF POLLUTANTS DESTINED FOR WASTE-W		Please enter all quantities	in this section in KGs					
PO		METHO	OD	QUANTITY					
		Method Used							
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (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 TRANS	FER OF POLLUTANTS DESTINED FOR WASTE-W	Please enter all quantities in this section in KGs							
PO	LLUTANT		METI	HOD	QUANTITY				
			N	lethod 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	ר הר	0.0	

4.4 RELEASES TO LAND

Link to previous years emissions data | PRTR# : W0287 | Facility Name : Ormonde Organics Limited (Portlaw) | Filename : W0287_2017.xls | Return Year : 2017 |

21/09/2018 16:20

SECTION A : PRTR POLLUTANTS

	RELEASES TO LAND				Please enter all quantities	S	
PO		M	IETHOD			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
					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)

		RELEASES TO LAND	Please enter all quantities in this section in KGs						
POLLUTANT				M	IETHOD		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	
							0.0 (0.0 0.0	

AER Returns Workbook

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE PRTR# : W0287 Facility Name : Ormonde Organics Limited (Portlaw) Filename : W0287_2017.4/s Return Year : 2017 21/C											21/09/2018 16:12	
			Please enter	all quantities on this sheet in Tonnes								0
			Quantity (Tonnes per Year)		Waste		Method Used	-	Licence/Permit No of Next <u>Haz Waste</u> : Name and <u>Licence</u> /Permit No of <u>Recover</u> /Disposer	<u>Haz Waste</u> : Address of Next Destination Facility <u>Non Haz Waste</u> : 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)
Transfer Destination	European Waste Code	Hazardous		Description of Waste	Treatment Operation	M/C/E	Method Used	Location of Treatment				
Within the Country	15 01 07	No	6.8	3 glass packaging	R13	м	Weighed	Offsite in Ireland	Starrus Eco Holidings Ltd,WFP-KK-14-007-02	Unit 15/16 Hebron Industrial Estate,Kilkenny,,Ireland Six Cross Roads Business		
Within the Country	20 03 01	No	227.64	t mixed municipal waste	R13	м	Weighed	Offsite in Ireland	Starrus Eco Holdings Ltd.,W0177-03	Park,Six Cross Roads ,Waterford,.,Ireland Unit 4-5		
Within the Country	20 03 07	No	2.74	t bulky waste	R13	м	Weighed	Offsite in Ireland	Glanway Limited, P1015-01	,Gurteens,Slieverue,Co. Kilkenny,Ireland Six Cross Roads Business		
Within the Country	20 03 07	No	38.56	bulky waste mixed construction and demolition wastes	R13	м	Weighed	Offsite in Ireland	Starrus Eco Holdings Ltd.,W0177-03	Park,Six Cross Roads ,Waterford,.,Ireland Six Cross Roads Business		
Within the Country	17 09 04	No	16.72	other than those mentioned in 17 09 01, 17 2 09 02 and 17 09 03 mixed construction and demolition wastes	R12	м	Weighed	Offsite in Ireland	Starrus Eco Holdings Ltd.,W0177-03	Park,Six Cross Roads ,Waterford,.,Ireland		
Within the Country	17 09 04	No	34.08	other than those mentioned in 17 09 01, 17 8 09 02 and 17 09 03	R12	м	Weighed	Offsite in Ireland	Chi Environmental,W0266- 01	Grannagh,Kilmacow,Co. Kilkenny,.,Ireland Unit 6 Rosehill Industrial		
Within the Country	20 03 07	No	0.31	bulky waste	R12	М	Weighed	Offsite in Ireland	Quality Recycling Limited,WFP-TS-0002-04	Estate,Ballinacurra,Midleton, Co. Cork,Ireland Six Cross Roads Business		
Within the Country	20 01 38	No	6.06	wood other than that mentioned in 20 01 37	R12	м	Weighed	Offsite in Ireland	Starrus Eco Holdings Ltd.,W0177-03	Park,Six Cross Roads ,Waterford,.,Ireland		

| PRTR# : W0287 | Facility Name : Ormonde Organics Limited (Portlaw) | Filename : W0287_2017.xls | Return Year : 2017 |