

PADRAIG THORNTON WASTE DISPOSAL LTD

**DUNBOYNE CIVIC AMENITY AND
MATERIALS RECYCLING FACILITY**

Waste License W0206-01



ANNUAL ENVIRONMENTAL REPORT 2012

Submitted February 2013

Prepared by Mercedes Kavanagh- Environmental Manager

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1. Introduction

Padraig Thornton Waste Disposal Limited (PTWDL) operates waste license (W0206-01) which was issued by the Environmental Protection Agency (EPA) on the 25th July 2005 to operate a Civic Amenity and Materials Recycling Facility. In accordance with the requirements of Condition 11.9 and Schedule D of the waste License, an Annual Environmental Report (AER) for the facility must be submitted to the EPA not later than March 31th of each year for the preceding calendar year. This AER is for the period from the 1st January 2012 to 31st December 2012.

The facility is located at:-

Dunboyne Industrial Estate,
Dunboyne,
Co. Meath.

The contact details for the facility are as follows:

Telephone: 01 6235133/0868241034

Fax: 01 8013896

EPA Site Contact: Mercedes Kavanagh

The national grid reference for the facility is 3011E, 2428N.

The address and contact details for the facility operator's headquarters are:

Thorntons Recycling
Unit S3B Henry Road,
Parkwest Business Park,
Dublin 12.

Telephone: 01-6235133

Fax: 01-6235131

2. Description of the Site and Licensed Waste Activities

The facility is located in the Dunboyne Industrial Estate, which is 600m north of Dunboyne village on the R157 road. The site occupies an area of approximately 1.6 hectares. Access to the facility is via the Dunboyne Business Park.

The surrounding land is predominately agricultural pastureland, with the remaining land consisting of light industrial processes within the Dunboyne Industrial Estate. The nearest residential area is Lutterell Hall, which is located approximately 200m southwest of the facility. In 2009 the new R157 was constructed north of the facility. This is known locally as the "Dunboyne By-Pass".

The licensed waste handling activities, permitted under the Third Schedule¹ and Fourth Schedule² of the waste Management Act 1996 to 2003 for the facility are detailed below:

Third Schedule, Class 11: Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.

Third Schedule, Class 12: Repackaging prior to submission to any activity referred to in a preceding paragraph of this schedule.

Third Schedule, Class 13: Storage prior to submission to any activity referred to in a preceding paragraph of this schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.

Fourth Schedule, Class 2: Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).

Fourth Schedule, Class 3: Recycling or reclamation of metal and metal compounds.

Fourth Schedule, Class 4: Recycling or reclamation of other inorganic materials.

Fourth Schedule, Class 12: Exchange of waste for submission to any activity referred to in a preceding paragraph of this schedule.

Fourth Schedule, Class 13: Storage of waste intended for submission to any activity referred to in a preceding paragraph of this schedule, other than temporary storage, pending collection, on the premises where such waste is produced.

3. Waste Management Record

During 2012 all skip waste was diverted from the facility to our Killeen Road facility and the MRF was used for temporary storage of SRF on a number of occasions during the year. The civic amenity site remained open to the public. All waste which entered the facility was checked and documented at the weighbridge in accordance with our waste license W0206-01 and waste acceptance procedure EP13 (Appendix 1).

The weighbridges were checked and re-certified by Precia Molen on the 5th July 2012. A copy of the service report is contained within Appendix 2 of this report.

PTWDL extended the range of materials it accepted at the civic amenity site in 2012. Weights of the material accepted are calculated from the weights of the bulked loads before they are consigned from the facility and not as they are delivered to the facility.

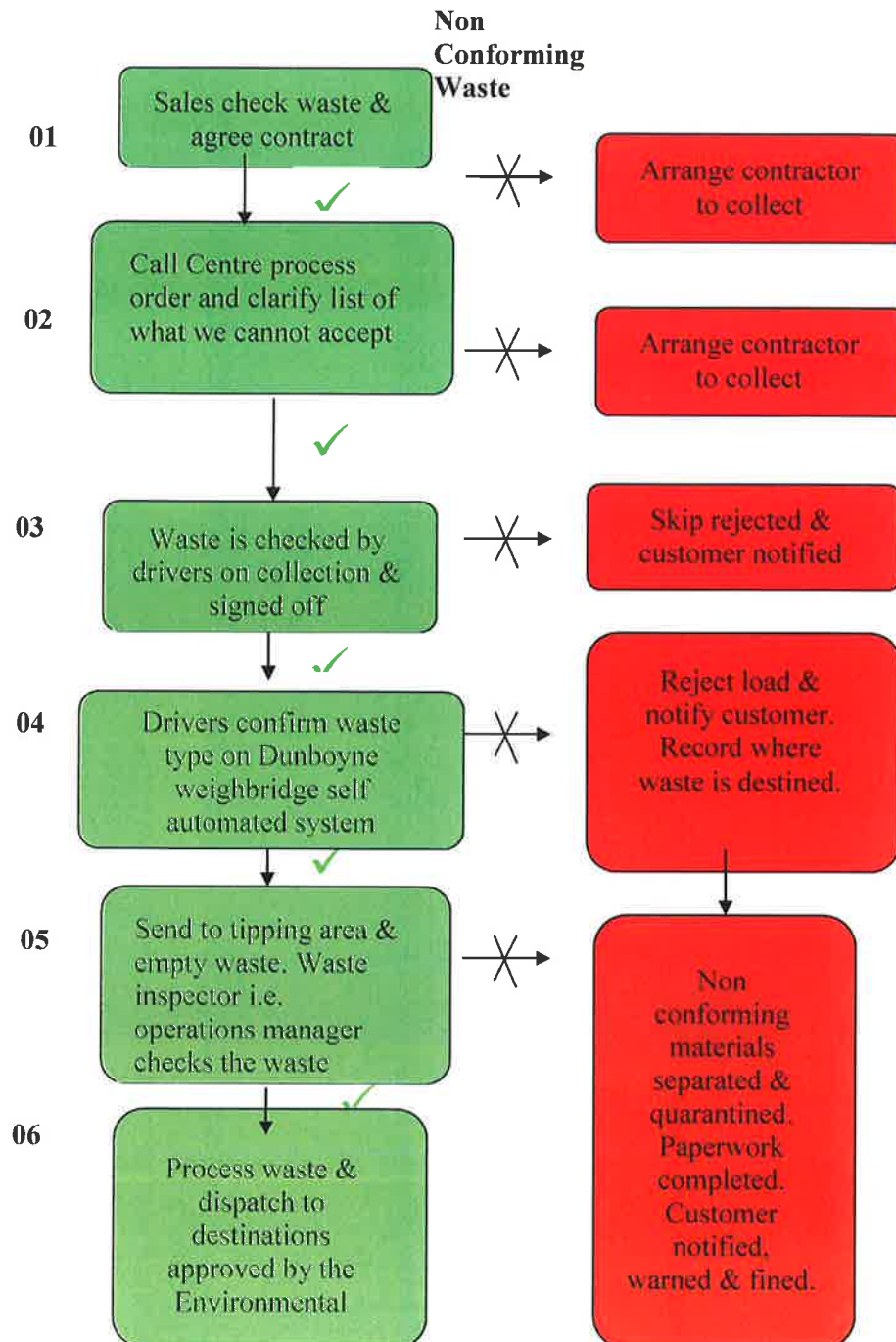
Thorntons Recycling maintained ISO certification for ISO 14001 Environmental, ISO 9001 Quality and OHSAS 18001 Health and Safety at the Dunboyne facility. Integrated management procedures are available for inspection at any of the company offices on a designated drive called the X Drive IMS drive.

¹ Third Schedule- Waste Disposal Activities

² Fourth Schedule- Waste Recovery Activities

3.1 Waste Acceptance

Figure 1 below is a simplified diagram explaining the normal waste acceptance procedures at Thorntons Recycling Dunboyne but as discussed previously in 2012 all skip waste was diverted to our Killeen Road facility W0044-02.



3.2 Waste Received 2012

A total of 4,718.81 tonnes of material was received at the Materials Recovery Facility (MRF) between 1st January 2012 and 31st December 2012. Of this 4715.55 tonnes was SRF (Solid Recovered Fuel) material for short term storage before being dispatched to an approved Cement Kiln in Ireland. A total of 336.87 tonnes of recyclable material was accepted at the civic amenity (CA) site during this year giving a total of 5055.68 tonnes for the MRF and the CA site. A summary of the waste that was accepted during the year is detailed in Table 1 below

Table 1: Summary of Waste accepted at the MRF during 2012

EWC	Material Received	Tonnes
20 03 07	Bulky MMW/ Skip Waste	3
19 12 10	Combustible Waste/SRF	4,716
	Total Into MRF Site	4,719.

3.3 Waste Consigned 2012

A total of 5,332.33 tonnes of waste material was consigned from the facility during the reporting period of 2011. This tonnage includes tonnage which came in through the civic amenity site.

Table 2: Summary of Waste consigned from the site during 2012

EWC	Materials Consigned	Tonnes
19 12 02	Mixed Metals	25.39
17 01 07	Clean Construction Rubble	81.32
17 05 04	Soil and Stones	32.88
19 12 07	Wood Processed or Chipped	67.54
15 01 03	Wood Packaging	45.04
20 02 01	Green Waste	21.14
15 01 07	Glass Packaging	26.00
19 12 09	Trommel Fines	106.16
20 03 01	Mixed Dry Recyclables	58.82
15 01 02	Plastic Bottles	4.68
15 01 04	Metallic Packaging Aluminum	0.74
20 01 39	Plastic Film	9.48
15 01 05	Tetrapak	1.98
20 03 07	Mixed Municipal Waste	72.16
19 12 10	SRF / Combustible Waste	4,374.00
20 01 01	Cardboard	32.90
20 01 01	Paper Mixed	25.52
17 09 04	Mixed Construction and Demolition Waste	282.52
17 03 03	Mixed Hard Plastics	8.42
20 01 10	Textiles/Clothes Banks	4.13
20 01 35/36	Total WEEE – Mixed/Fridges and Freezers etc	46.73
	Total Consigned from MRF and CA Site	5,332.39

Due to the downturn in the Construction trade and commercial/ industrial and household skip waste the facility experienced a decrease in the amount of C & D and Bulky MMW for processing in 2011. This trend continued in 2012 and for this reason it was decided to divert all skip waste to the Killeen Road facility W0044-02 during 2012. The civic amenity site was left open for the public in Dunboyne and the MRF was used for temporary storage of SRF awaiting consignment to two approved cement kilns in Ireland.

4. Dust and Particulate Matter Monitoring

Quarterly reports for dust and particulate matter PM10 were submitted to the Agency for 2012 in April (206-01/12/MA/01), July (206-01/12/MA/03), Oct (206 01/12/MA/08) and quarter 4 is contained within this report.

4.1 Dust Monitoring

In compliance with Condition C.6 of waste license W0206-01 dust deposition and particulate matter (PM10) monitoring was carried out quarterly at the facility. The monitoring locations are shown in Appendix 3.

Dust deposition monitoring was carried out by an independent consultant, Fehily Timoney and Company during 2012

Dust deposition monitoring was carried out at four locations (D1-D4) using Bergerhoff type gauges placed at a height of at least 1.5 metres above the ground for a continuous period of 30 days. The results of the dust deposition are shown in Table 4 below.

Table 4: Dust deposition results for each dust monitoring location per quarter during the year 2012

Dust Monitoring Dunboyne					
Monitoring	Quarter 1	Quarter 2	Quarter 3	Quarter 4	ELV
Locations					mg/m ² /day
D1	153	224	48	89	350
D2	127	180	29	225	350
D3	148	212	140	44	350
D4	113	199	15	101	350

The dust deposition results above show that there was no exceedance in the emission limit values for dust deposition in 2012 at the facility.

4.2 Particulate Matter Monitoring

Particulate matter monitoring was carried out by an independent consultant, Fehily Timoney & Co., at four locations (D1-D4) using PM10 filters for a period of 24 hours at each location. The results of the PM10 monitoring are shown in Table 5. All results were below the level of 50ug/m²/day as set down in Schedule B.5. of the waste license W9206-01. The appointed consultants failed to carry out particulate matter monitoring in Quarter 4 at the facility as explained to the EPA in correspondence dated the 8th January 2013, reference 206-01/13/MK/02.

Table 5: Particulate Matter monitoring results for each quarter during 2012 at four locations on the site boundary

PM10 Monitoring Dunboyne					
Monitoring	Quarter 1	Quarter 2	Quarter 3	Quarter 4	ELV
Locations	mg/m3/day				
D1	7.9	5.4	33.9	*	50
D2	26.3	14.9	42.6	*	50
D3	8.9	24.2	13.3	*	50
D4	<1.3	22.4	19.6	*	50

* Failure on consultants equipment letter forwarded to the EPA 08.01.13

5 Noise Monitoring

In compliance with Schedule B.4 and C.5 of waste license W0206-01 noise monitoring was carried out bi-annually at the facility. Noise monitoring was carried out by trained staff of Thorntons' Environmental Department. As the facility only operates during the day, only daytime monitoring was carried out. The monitoring locations are contained within Appendix 4 of this report.

Daytime monitoring was carried out in:

- June 2012 (Reference report 9th July 2012, 206-01/12/MA/04)
- August 2012(Reference report 22nd August 2012 , 206-01/12/DD/02)

Monitoring was carried out at six sampling locations; four locations (NP1-NP4) are to determine the noise levels at the boundary during daytime operations and two locations (NP5 & NP6) are to determine the noise levels at the nearest noise sensitive receptors. The results are tabulated in Table 6 for 2012 and show the recorded noise levels during the respective noise monitoring periods.

The analysis of the results from the noise monitoring shows that the noise levels at the noise sensitive locations are not adversely impacted upon by the site activities in the reports submitted to the EPA in 2012. The site remained largely inactive during 2012 with all skip waste being diverted to our Killeen Road facility W0044-02.

Table 6: Bi-annual noise monitoring results for the period of 2012 at 6 locations

Monitoring Locations	Half 1 (20th June 2012)			Half 2 (16th August 2012)			ELV (dB)
	LA, eq (dB)	LA 10 (dB)	LA90(dB)	LA, eq (dB)	LA 10 (dB)	LA90(dB)	
NP1	57	62	36	56	59	49	n/a
NP2	56	60	41	61	64	49	n/a
NP3	54	57	43	56	58.0	49	n/a
NP4	56	60	46	55	58	47	n/a
NP5	55	60	45	50	50	41	55
NP6	64	64	41	64	62	45	55

6. Emissions to Surface Water and Foul Water

In compliance with schedule B.3, C.2.3, C.3.1 and C.3.2 monitoring is carried out on the foul and surface water. The monitoring locations for the foul (FW1) and surface water (SW1, SW2, and SW3) are shown in Appendix 5.

6.1 Surface Water monitoring

The waste license W0206-01 requires that weekly monitoring be carried out at SW3 where the yard runoff is discharged to the local surface water drain after it passes through a silt trap and oil interceptor on site. As there are no emission limit levels contained within the license for surface water monitoring at SW3 additional monitoring points have historically been sampled upstream and downstream of the discharge point to identify any impact the site is having on the local surface water network. Quarterly monitoring reports have been forwarded to the EPA in Quarter 1, 2, 3 and detailed explanations of results, quarter 4 has been submitted as part of this AER (Reference 10th April 2012 206-01/12/MA/01, 12th July 2012 206-01/12/MA/03, 10th October 2012 206-01/11/MA/08). Monitoring point SW1 is located upstream, to the west of the site, at the point where the local drain enters the site boundary. Monitoring point SW2 is located downstream to the north of the site where the drain leaves the site boundary. A bypass road for Dunboyne village runs adjacent to the site and the surface water drain

Table 7: Surface water monitoring results per quarter of 2012 at monitoring location SW1

Surface Water 1 - Upstream Local Drain enters the Site					
Monitoring Parameters	Quarter 1 13.03.12	Quarter 2 24.05.12	Quarter 3 30.08.12	Quarter 4 05.12.12	Units
BOD	4.49	10.3	<2	2.01	mg/l
COD	18.8	31.3	13.2	9.01	mg/l
Suspended Solids	11	38.9	2.5	2.5	mg/l
pH	7.74	7.6	7.92	8.07	pH Unit
Orthophosphate (as P)	<0.03	<0.05	0.0274	<0.02	mg/l
Ammoniacal Nitrogen (as N)	0.206	<0.2	0.205	0.202	mg/l

Table 8: Surface water monitoring results per quarter of 2012 at monitoring location SW2

Surface Water 2 - Downstream Drain leaves the site					
Monitoring	Quarter 1	Quarter 2	Quarter 3	Quarter 4	
Parameters	13.03.12	24.05.12	30.08.12	05.12.12	Units
BOD	3.27	4.54	6.75	<2	mg/l
COD	8.23	17.1	42.3	<7	mg/l
Suspended Solids	11	13.6	12.5	<2	mg/l
pH	7.93	7.52	7.73	8.05	pH Unit
Orthophosphate (as P)	0.165	<0.5	0.0343	<0.02	mg/l
Ammoniacal Nitrogen (as N)	0.747	<0.2	0.252	0.02	mg/l

Monitoring point SW3 is the discharge point from the facility to the local drain. Due to SW3 being the discharge point a more detailed analysis of the water is carried out. The results for these are tabulated in Table 9.

Table 9: Surface water monitoring results per quarter of 2012 at monitoring location SW3

Surface Water 3 - Discharge Pipe					
Monitoring	Quarter 1	Quarter 2	Quarter 3	Quarter 4	EPA Trigger
Parameters	13.03.12	24.05.12	30.08.12	05.12.12	mg/l
BOD	<2	<2	<2	<2	
COD	14.3	<7	15.4	11.8	30
Suspended Solids	<2	<6	3	3	25
pH	7.98	7.99	8.11	8	6 - 9
Orthophosphate (as P)	<0.03	0.065	0.0333	<0.02	
Nitrates (as NO3)	2.14	1.8	2.34	1.9	
Ammoniacal Nitrogen (as N)	0.223	<0.2	0.28	<0.2	
Copper	0.0038	0.00212	0.00204	0.00245	
Zinc	0.0024	0.00287	0.00361	0.00727	
Sulphates (as SO4)	97.7	127	52.9	60.8	
Detergents MBAS	<0.05	<0.05	<0.05	0.0876	
Phenols	<0.025	<0.025	<0.016	<0.016	
Mineral Oils	0.421	<0.01	0.301	0.0407	
Chloride	18.2	15.3	3.3	21.3	
Colour	3.21	1.8	<1	7.12	
Visual inspection	Log maintained on site				

The surface water is sampled weekly at S3 by an independent consultant. S3 is the point at which surface water discharges from the site to the drainage ditch. All results have been forwarded to the EPA in quarterly reports in 2012 and a full detailed weekly set of results for 2012 is contained within Appendix 5 of this report.

The EPA set trigger levels for this weekly sample in correspondence dated the 24th January 2011 (reference W0206-01/NC06NH). Samples taken on the 16th February, the 13th and 27th April, 20th July and the 12th October 2012 exceeded trigger levels as set down by the EPA in 2011 and were therefore all reported as incidents to the EPA during 2012.

Historically samples have been carried out quarterly at three locations even though the license only specifies one. These are carried out to ascertain if indeed the site is having any impact on the surface water drainage network. S1 sample was taken from the stream at the point of entry into the site (upstream). S2 sample was taken from the stream at the point of exit from the site (downstream) and S3 sample was taken from the stream at the emission point from the site i.e. the outlet drainage pipe.

As may be noted the pH, COD and suspended solids are below trigger levels of pH 6-9, COD 30mg/l and Suspended Solids 25mg/l as set down by the EPA in correspondence dated the 24th January 2011 for the quarterly sample on S3. In fact during the second quarter of 2012 a sample taken from S1 i.e. where drain enters the site/upstream had elevated COD and suspended solids however on leaving the site at S2 COD and suspended solids levels are below trigger levels hence the entrance of S3 the surface water outlet having a positive effect on the local drain.

In conclusion based on weekly and quarterly results for 2012 the site was not having an adverse effect on the water quality of the drainage surface water network, in some cases the site actually positively influenced the outlet.

6.2 Foul Water Monitoring

In accordance with the waste license (W0206-01) under schedule B and C all emissions to sewer must be monitored. Emissions to sewer must be monitored on a quarterly basis. Table 10 and Table 11 details foul water monitoring results for 2012

Table 10: Foul water monitoring results per quarter of 2012

Foul Water Results 2012					
Monitoring	Quarter 1	Quarter 2	Quarter 3	Quarter 4	ELV
Parameters	13.03.12	24.05.12	30.08.12	24.10.12	mg/l
BOD	6.71	6.04	<2	144	1000
COD	17.6	15.2	8.44	136	3000
Suspended Solids	6.5	<6	<2	52.2	1000
pH	7.74	7.72	7.96	7.59	6 - 10
Phosphorus (as P)	0.387	0.133	0.068	0.0348	20
Nitrates (as NO ₃)	7.74	4.82	4.79	4.67	100
Ammoniacal Nitrogen (as N)	7.79	0.539	0.363	1.64	10
Colour True	3.5	<1	3.1	<5	-
Mineral Oils	0.278	<10	<10	0.437	20
Sulphates (as SO ₄)	194	253	244	259	1000
Detergents MBAS	0.0542	<0.05	0.103	0.0972	20
Phenols	0.05	<0.025	<0.016	0.03	0.1
Chloride	25.3	19.6	11.4	17.9	250
Organic Solvents	None	None	None	None	no visible film

Table 11: Heavy Metal Results for Foul Water 2012

Foul Water Heavy Metal Results 2012			
Monitoring	Quarter 1	Quarter 2	Quarter 3
Parameters µg/l	13.03.12	24.05.12	30.08.12
Dissolved Zinc Low Level	4.51	9.89	16.3
Dissolved Mercury Low Level	<0.01	<0.01	<0.01
Dissolved Arsenic Low Level	1.3	1.26	1.6
Dissolved Cadmium Low Level	<0.1	<0.1	<0.1
Dissolved Chromium Low Level	<0.22	12.1	4.73
Dissolved Copper Low Level	12.7	9.88	7.86
Dissolved Lead Low Level	0.139	0.227	<0.02
Dissolved Nickel Low Level	4.51	3.65	3.4
Dissolved Selenium Low Level	14.6	13.9	10.8
Units measured in ug/l - Only required Bi annually			

The discharge to the foul water for each quarter of 2012 was below the emission limit values set down by the waste license. The heavy metals in the foul water were also measured three times during the reporting period, which is in compliance with the bi-annual monitoring requirements as per condition C.3.2 of the waste license (Table 11).

7. Resource Consumption Summary

This section details the resources used by the facility during the period of 1st January 2011 to the 31st December 2012. Resources that were monitored include fuels, water and ESB.

7.1 Water

In 2012 5,632m³ of foul water was discharged from the site at FW1, as measured from the continuous recording meter located at the discharge point. 3,908m³ was discharged to the surface water at SW3 as measured from the continuous recording meter located at the discharge point.

Water that is discharged via the foul water consists of water used in the toilets, showers, offices, truck wash, wheel wash, bin wash and washing down the MRF floors.

Water that is discharged into the surface water consists of water from the runoff from the roofs of the buildings and from the hard standing in the yard. Surface water runoff is not linked with the site activities and is linked with the quantity of rainfall and snow throughout the year, only rainwater that falls onto the hard standing and the roofs of the buildings is discharged at this point.

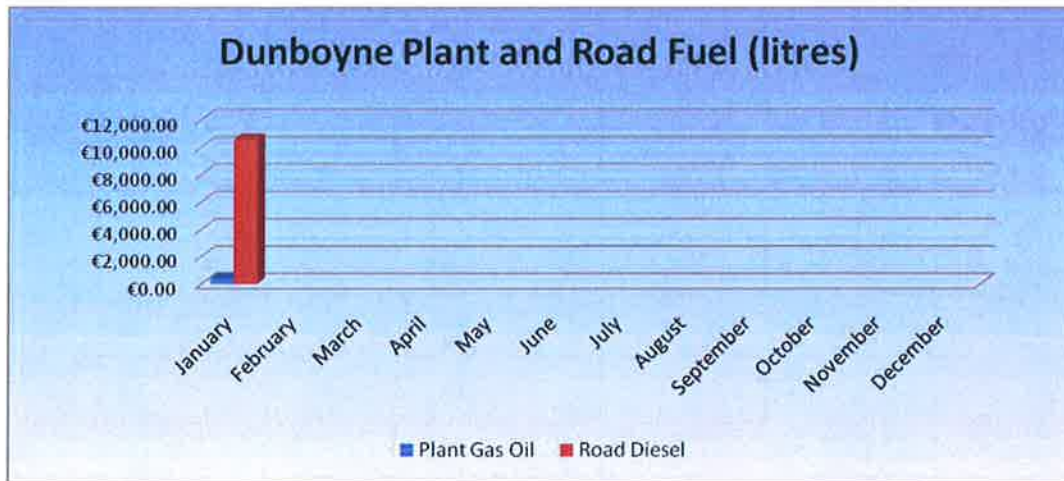
Table 12: Foul and Surface Water discharges from 2005-2012 (m3)

	2005	2006	2007	2008	2009	2010	2011	2012
Foul	3461	3080	3144	4691	4528	4622	3926	5632
Surface	5665	6459	6636	8479	8728	7003	5505	3918

7.2 Diesel

The main types of fuel used at the facility in the past included road diesel, plant diesel (Gas Oil) for the machinery working on site and heating oil (Kerosene) for the offices. However during 2012 all skip waste was diverted to our Dublin facility and only one staff member remained on site to man the civic amenity site. Plant machinery was not operated as the MRF was largely used for the storage of SRF. Therefore there were no deliveries of road diesel, plant diesel or heating oil to the facility after January 2012

Figure 2 Monthly consumption of road diesel and plant gas oil at Dunboyne during 2012



7.3 ESB

Thorntons Recycling has implemented an energy management programme on all its licensed sites, which will aim to reduce energy consumption.

As can be seen from Table 13 there was a reduction in electricity consumption from 2010 to 2011 and 2012. In 2011 the annual consumption of daytime kWh was 64,054 kWh and the nighttime usage was 17,320 kWh. This decreased further to 20,100 Daytime kWh and 9540 Night kWh, This may be attributed to a reduction in activity at the facility but also specific actions carried out as per the facilities energy management programme. It is hoped that electricity consumption at the site can be further reduced in 2013. Table 13 displays the annual usage of electricity in 2012.

Table 13: Comparison of ESB energy usage between 2010, 2011 and 2012

Year	Day k/Wh	Night k/Wh
2010	94559	23880
2011	64054	17320
2012	20100	9540

8 Complaints Summary

There was one environmental complaint received at the facility during 2012. This complaint was made in relation to burning in the Dunboyne area it was investigated and found not to be linked to any of Thorntons Recycling's operations.

Thorntons Recycling takes all complaints seriously and is committed to resolving any complaints if made in relation to the facility. If we receive a complaint we adhere to the company complaints procedure as per our ISO certified integrated management system.

9 Schedule of Environmental Objectives and Targets and Environmental Management Programme

Thorntons Recycling operates an Integrated Management System (IMS) which has been certified to ISO 14001 Environmental, OHSAS 18001 Health and Safety, ISO 9001 Quality. The complete content of the IMS is too large to contain within the body of this report, however the EPA can access this for inspection on a specially designated drive (X Drive) at any of the company's site offices.

The schedule of Environmental Objectives and Targets and the Environmental Management Programme for 2013 will be maintained on the IMS/X Drive once a management review of the IMS is completed in March 2013.

10 Tank and Pipeline Inspection Report

10.1 Tank Bunding

Thorntons Recycling commissioned Fehily, Timoney and Company in 2011 to carry out testing on the bunds at the Dunboyne facility as per condition 6.7 of the waste license. All three bunds were tested on the 17th and 18th of November 2011. The Main Diesel Bund passed and a copy of the bund certificate was enclosed in last year's AER.

The other two bunds on site include the heating oil tank (which is double skinned) and the generator bund, both of which were not in use in 2012. They will be scheduled for works and will be retested if they are going to be in used in 2013.

10.2 Pipeline Testing

The integrity and water tightness of all underground pipes and tanks and their resistance to penetration will be carried out once every 3 years as per Condition 6.7 of the waste license. Thorntons Tankering Service (TTS) completed a survey on all drains at the Dunboyne facility in June 2011. A full detailed copy of this report was forwarded to the EPA on the 24th August 2011 (Reference W0206-01/11/MK/07). In conclusion the report showed there were no structural defects detected in the foul or surface water drainage systems on site and that no works were required.

11 Reported Incidents Summary

Table 14 summarizes the incidents, which occurred in 2011. There were four incidents reported to the EPA and followed up with a written report as per the EPA guidelines

Table 14: Incidents 2012

Date sent	Comments on Incident
22.02.12	Incident in SW weekly sample, exceedance in SS reported to the EPA on the 22.02.12 for results on the 16.02.12
01.05.12	Incident in SW weekly sample, exceedance in SS and COD reported to the EPA on the 01.05.12 for results on the 13.04.12 and 27.04.12
31.07.12	Incident in SW weekly sample, exceedance in PH reported to the EPA on the 31.07.12 for results on the 20.07.12
31.10.12	Incident in SW weekly sample, exceedance in SS and COD reported to the EPA on the 31.10.12 for results on the 12.10.12

12 Odour Management Programme

In 2012 all skip waste was diverted from the facility to be processed at Thorntons Recycling, Killeen Road W0044-02. The facility was only used for some months of the year for temporary storage of SRF awaiting dispatch to two approved cement kilns in Ireland. This material has been mechanically treated off site and would have a very low risk of potential odour emissions.

13 Energy Efficiency Audit Report Summary

Thorntons Recycling has an energy management system for all its licensed sites. Energy and resource usage are monitored such as electricity, Kerosene, road diesel etc. The system is available for viewing at any of the licensed facilities at Thorntons Recycling. It is hoped that with successful management that we will continue to make further reduction in energy resources.

14 Pest Control Programme Report

Pest control is carried out at 8 scheduled visits per year. Complete Pest Control are contracted to carry out pest control at the facility. Overall pest activity in 2012 was very low due. A copy of the Pest Control programme can be viewed on site.

15 Report on Progress made and Proposals being developed to Minimise Water Demand and the Volume of Trade Effluent Discharge

15.1 Water Requirements

Water requirements have decreased further in 2012 at the facility. If full operations were in place water would be required on the site for the following activities;

- Toilet and Canteen facilities
- Washing down the MRF
- Truck wash
- Fire Suppression

However in 2012 there was only one member of staff on site, based in the civic amenity site. Water was only used for sanitary facilities and bin washing. There was no fire at the site during 2012, thus no fire water was used.

With the exception of the fire suppression all of the above facilities discharge their effluents into the foul drainage system. In the event of a fire the water used to suppress it will be maintained on site for testing prior to discharge in the appropriate manner in consultation with the Agency and the appropriate local authorities. Thorntons Recycling has their own liquid waste/tankering division (TTS) who can be called upon in the event of an emergency.

15.2 Water supply and Storage

Water is supplied to the site via Meath County Council water mains network. A 80m³ water storage tank is located adjacent to the MRF. Water from this tank is used to wash down the MRF floor and for fire suppression if required. This tank is backed up with an auxiliary pump to increase the pressure in the event of requiring the stored water for fire suppression. Thorntons Recycling contracted Indepth, T/A McBreen Environmental, to carry out an investigation in 2010 on water usage and to ensure there was no water leaks on site, full detailed reports were forwarded to Meath County Council.

15.3 Foul water discharge

The license permits a maximum of 30m³/day to be discharge into the foul water. This equated to a total of 9360m³ per year based on a six day working week. The meter reading on the foul water discharge shows that approximately 5,632m³ was discharged during 2012.

15.4 Progress on Minimisation of Water Usage

The water usage is now very low on the site due to all skip waste being diverted to our Dublin facility in 2012. There was only one full time member of staff on site working in the civic amenity site during the day time in 2012. The site was predominantly used for the storage of Solid Recovered Fuel (SRF) awaiting dispatch to approved cement kilns in Ireland. The main demand on water are related to washing of domestic trucks and bins Thorntons Recycling road sweeper cleans the yard and the hard standing when required avoiding the excessive use of water in the cleaning process on site.

16 Reports on Financial Provision made under this License, Site Management structure of the facility and a Programme for Public Information

16.1 Financial Provision

Padraig Thornton Waste Disposal Ltd, is insured by FBD Brokers (Appendix 6). PTWDL is insured for Employers Liability, Public/Products Liability and Motor Insurance.

Thorntons Recycling is insured under public liability for €12.5 million for sudden and accidental pollution incidents. Thorntons Recycling is a financially secure company, which is evident from the director's report and consolidated financial statements for the year ending 31st December 2011. The company has in place an integrated management system (IMS) which is certified to ISO14001 (Environmental), ISO9001 (Quality) and OHSAS18001 (Health and Safety) Management Standards. The Dunboyne facility was audited by Certification Europe in June 2011 and it received re certification in all three standards. Detailed risk assessments and environmental aspects are in place for the facility where appropriate levels of controls have been identified and assessed to ensure that standards are maintained and environmental risks are minimized at the facility.

A report in relation to the financial provision is required under condition 12.3 and was forwarded to the EPA previously. This report details the financial status of the company, financial commitments to cover environmental issues, decommissioning, aftercare management, environmental pollution and contingency arrangements in place at the facility. At this time detailed risk assessments were carried out and in conclusion the assessment states that no scenarios were identified which would exceed the insurance cover where the potential remediation costs would threaten the financial solvency of the company.

16.2 Site Management Structure 2012

Paul Thornton
Director

Gary Brady
Managing Director

Ciaran Dowling
Operations Facility Manager

Tommy Rogers
EHS Manager

Maria Andrews 2012
Environmental Manager

Mercedes Kavanagh will be the Environmental Manager for the site in 2013. She can be contacted regarding any queries that the Environmental Protection Agency may have. Mercedes' contact details are mobile 086-8241034 and e-mail mercedes@thorntons-recycling.ie.

16.3 Program of Public Information

Thorntons Recycling operates an open door policy. All information relating to activities carried out at Thorntons Recycling Civic Amenity and Materials Recovery Facility (MRF) is maintained on site. Public information is accessible at the site by appointment

with the Environmental Department, Thorntons Recycling Head Office or at the Office of Environmental Enforcement.

All new and existing clients are brought through our waste acceptance procedures and are supplied with information by sales representatives or customer service agents in relation to what waste types we can accept at the facility. During 2012 no new waste was accepted at the facility as all skip waste was diverted to our Killeen Road facility, W0044-02. It is the intention that this will continue in 2013 and that the Dunboyne MRF will be used for the storage of Solid Recovered Fuel (SRF) once agreed with the Agency. The civic amenity site will remain open to the public.

Thornton's Recycling website has a compliance section which customers can access, key environmental information such as waste collection permit numbers and waste licenses etc. are included on this website.

As discussed previously Thorntons Recycling Dunboyne has certification in ISO14001, ISO9001 and OHSAS18001 and has a detailed communication procedure which is available for the public on request.

17 Environmental Liabilities

Thorntons Recycling is committed to achieving the highest possible level of environmental performance and to the prevention of environmental damage. All facilities operated by the company are certified to international standards for Environmental, Health and Safety and Quality. All sites are subject to surveillance audits twice a year which are carried out by Certification Europe, Dunboyne was audited in June 2011.

Environmental liabilities and aspects are elements of our integrated management system (Procedure PM01 – Environmental Aspects Procedure and associated aspects register) which are regularly maintained and updated and are audited in detail during surveillance audits and internal audits carried out by trained auditors within the company. The Environmental Aspects Register (PM01-F02) for Thorntons Recycling Dunboyne facility is available for inspection on site. The company also has employed environmental management staff to ensure best practice guidelines and compliance with waste license W0206-01. A comprehensive emergency plan exists for all facilities operated by the company.

Appendix 1

Environmental Procedures Manual		Reference	EP13
Title: Waste Acceptance procedure Dunboyne		Date issued	30/10/2009
		Revision	02

Relevant to:-	Killeen Road	Kilmainham Wood	Shredding	Dunboyne	PDM	ELV	HQ	Tankering	MDR
				√					

Purpose and Scope

The purpose of this procedure is to detail the waste acceptance procedure for Thorntons Recycling Dunboyne Civic Amenity and Materials Recycling Facility and also the procedure to be followed in the event of the discovery of unacceptable wastes at the facility.

Unacceptable Waste – a waste type that is not permitted to be handled at the facility and is listed in the “Materials we DON’T Accept”

Material We DO accept (MRF only)

Construction waste
Demolition waste
Timber
Topsoil
Brickwork
Concrete
Mixed Metals
Clay and natural stone
Dry non-hazardous commercial
and industrial waste
Mixed Municipal Waste

(Civic amenity site ONLY)

Cardboard,
Paper
Plastic Packaging
Aluminium cans
Metal cans
Tetra pak
Clothes
Glass Bottles
Metal
Batteries
Electrical Goods
Light bulbs

Material we DON'T accept (MRF and Civic amenity site)

Animal remains or carcasses
Asbestos
Chemical Waste
Contaminated soil & Stone
End of Life Vehicles
Hazardous hospital waste
(Including sharps containers etc)
Liquid Waste
Materials contaminated with oil,
e.g oil filters or rags
Oil/Water mixtures
Paints
Tyres
Pharmaceutical waste
Photographic waste
Pressurised vessels, e.g fire
extinguishers
Road sweepings
Sludge
Food Waste
Saw Dust
Any hazardous material
Green waste

Environmental Procedures Manual		Reference	EP13
Title: Waste Acceptance procedure Dunboyne		Date issued	30/10/2009
		Revision	02

Relevant to:-	Killeen Road	Kilmainham Wood	Shredding	Dunboyne	PDM	ELV	HQ	Tankering	MDR
				√					

Responsibility

The Sales Team are responsible for highlighting unacceptable wastes types to customers.

Drivers are responsible for checking all loads for unacceptable wastes prior to collecting the load.

The Operations Manager on site is responsible for identifying and highlighting non-conforming waste and checking all loads of waste brought into the facility. The Dunboyne weighbridge is self automated therefore a waste check by a weighbridge operator is not carried out as with other sites owned by Thorntons Recycling.

The Operations Manager is responsible for inspecting, assisting in documenting and informing the Environmental Manager and the Dunboyne Transport Department of any non-conforming waste which enters the facility.

The Environmental Manager is responsible for organising the safe removal of any non-conforming waste. The Environmental Manager is responsible for tracing the non-conforming waste and informing the Sales Team.

Associated Documents

[EP04-F01A, Non-conforming Waste form](#)

Procedure

The following process must be followed when handling all wastes;

1. The Sales Department provide all our account customers with a list of what we can and cannot accept at the facility. If in doubt about any waste type they contact the Environmental Department
2. The Customer Care centre processes the order and selects the waste description with the appropriate EWC Code and enters onto WIMS. If in doubt about any code or a waste type contact the Environmental Department
3. Drivers check the contents of the skip, bin or container on collection and report to the Transport Department if there is non-conforming waste. Transport in turn liaise with the Environmental Dept and will advise on how to proceed (if necessary Thorntons can arrange for an alternative collector).

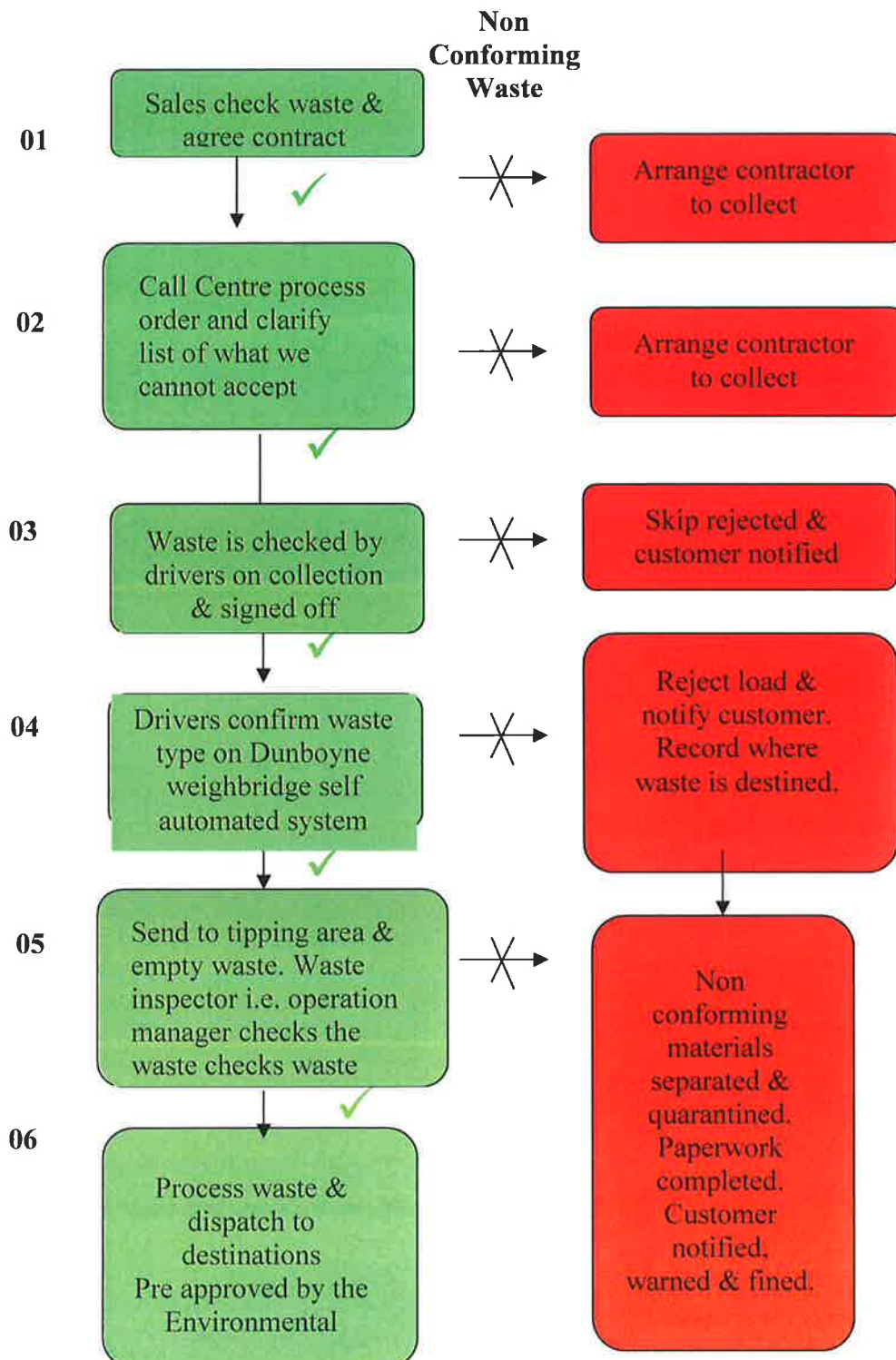
Environmental Procedures Manual		Reference	EP13
Title: Waste Acceptance procedure Dunboyne		Date issued	30/10/2009
		Revision	02

Relevant to:-	Killeen Road	Kilmainham Wood	Shredding	Dunboyne	PDM	ELV	HQ	Tankering	MDR
				√					

4. As the weighbridge at Dunboyne is self automated, drivers must confirm waste type on entrance to the facility. Should the driver need to change the waste type he can amend the waste type on the self automated bridge which in turn will update WIMS. The system has been set up to only allow the driver to weigh in acceptable wastes on sites.
5. When non-conforming waste is tipped the Operations Manager must complete the necessary non-conforming waste form and attach photos if required. He must move waste to the quarantine area if required. He must pass the non-conforming form is form to the Environmental Manager.
6. The Environmental Manager will contact the Sales Rep for the account. The appropriate Sales Rep is to be contacted so that they can in turn advise the customer of a fine, recharging, rejection of waste etc. Should the waste type description need to be changed on WIMS the Weighbridge Dept are informed and the Sales Rep who in turn advises the customer of this change and necessary changes in charges of applicable.
7. Paperwork is filed in the Environmental Department at Dunboyne

Environmental Procedures Manual		Reference	EP13
Title: Waste Acceptance procedure Dunboyne		Date issued	30/10/2009
		Revision	02

Relevant to:-	Killeen Road	Kilmainham Wood	Shredding	Dunboyne	PDM	ELV	HQ	Tankering	MDR
				√					



Appendix 2

Block F, Unit 5, Maynooth Business Campus, Maynooth, Co.Kildare Tel: (01) 835 3084 Fax: (01) 835 1213

CUSTOMER: <i>Thompsons</i>				ENGINEER: <i>Milly Perry</i>	
ADDRESS: <i>Drinboyne</i>				CONTACT: <i>Ted / Rickan</i>	
PHONE NUMBER:				ORDER NO.	
DATE	ON SITE HOURS	TRAVEL TIME	MILEAGE	EQUIPMENT DETAILS	
<i>5/7/12</i>	<i>3</i>	<i>1</i>		MAKE: <i>Precia Molen</i>	
				MODEL: <i>T300 + BC300</i>	
				SIZE: <i>15 x 3</i>	
				LOADCELL TYPE:	
				SERIAL NO: <i>02F742951 / 04F748802</i>	
				CAPACITY: <i>50000 x 2</i>	
DETAILS OF PARTS SUPPLIED/FITTED					
QUANTITY	PART NUMBER	DESCRIPTION			
REASON FOR VISIT:		INSTALLATION <input type="checkbox"/>	SERVICE <input checked="" type="checkbox"/>	REPAIR <input type="checkbox"/>	
		CALIBRATION <input type="checkbox"/>	OTHER <input type="checkbox"/> Specify:		
DESCRIPTION OF WORK CARRIED OUT:					
<i>Checked indicators, checked loadcells and load cell mounts. Checked junction box. Checked Burners. Checked swing on bridge supports. Checked both bridges returning to zero. Did end, middle and with 1000 in bridge. Weighing layout. Then out bridge needs calibration cleaned and checked sensors. Working properly.</i>					
ENGINEER'S COMMENTS:					
CUSTOMER'S COMMENTS:					
We hereby approve/confirm the above is a true record of the work undertaken which has been carried out to our satisfaction				WORK COMPLETE: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
				REPORT TO FOLLOW: Yes <input type="checkbox"/> No <input type="checkbox"/>	
				FOLLOW UP REQUIRED: Yes <input type="checkbox"/> No <input type="checkbox"/>	
ENGINEER:	For Client:				
SIGNED: <i>Milly Perry</i>	SIGNED: <i>[Signature]</i>				
NAME:	NAME:				
TITLE:	TITLE:				
No 13872					



13 Ashbourne Business Park,
Ashbourne Industrial Estate,
Ashbourne, Co. Meath.
Ph: +353 1 835 3084

WEIGHBRIDGE CALIBRATION TEST REPORT NO : S07497-C2

CUSTOMER: Thortons Recycling
SITE ADDRESS: Dunboyne
Co Meath
SERVICE REPORT NO:
MANUFACTURER: Precia Molen
TYPE: Overground
SIZE: 18M
LOCATION: Entrance

TYPE APPROVAL CERT NO: F-01-A-005
INDICATOR TYPE: I300 (X222)
DATA PLATE: Yes
INDICATOR SERIAL NO: 04F746602
MINIMUM CAPACITY (kg): 400
MAXIMUM CAPACITY (kg): 50000
DIVISION (e) (kg): 20
PRINTER SERIAL NO: N/A
TARE FACILITY: Disabled

Accuracy of Zero, Linearity/Hysteresis, Discrimination & Comparison Tests = *

Approximate Test Interval (e)	MPE (e)	Actual Load (kg)	Indicator Up	Display Error (e)	True Error (e)	Indicator Down	Display Error (e)	True Error (e)	SL
ZERO	0.50	0	0	0.00		0	0.00		
2	0.50	40	40	0.00	0.00	44	0.20	0.20	
20	0.50	440	436	-0.20	-0.20	434	-0.30	-0.30	
500	1.0	10040	10034	-0.30	-0.30	10030	-0.50	-0.50	
1000	2.0	20040	20022	-0.90	-0.90	20020	-1.00	-1.00	SL1
1250	2.0	25040	25018	-1.10	-1.10	25016	-1.20	-1.20	
2000	2.0	40040	40016	-1.20	-1.20	40016	-1.20	-1.20	SL2
2170	3.0	43440	43410	-1.50	-1.50	43408	-1.60	-1.60	
SL1		20040							
SL2									
PASSED	Yes								

SL - Substitute Load

NOT TESTED AT MAX CAPACITY, BALLAST NOT PROVIDED

REPEATABILITY TEST (Zero Track On)

50%-MPE(e) 2.0
>75%-MPE(e) 3.00

	Indicator	Indicator	Indicator
50%	25016	25018	25022
>75%	43408	43406	43412
PASSED	Yes		

ECCENTRIC LOAD TEST - MPE (e): 1.0

Position	1	2	3	4	5	6	7	8	9	10
Test Load	8040	8040	8040	8040	8040	8040				
Indicator	8036	8032	8030	8034	8032	8034				
Error (e)	-0.20	-0.40	-0.50	-0.30	-0.40	-0.30				
PASSED	Yes									

LOADCELL DATA

Number	6
Make	Vishay/Revere
Type	
Divisions	#N/A
Test cert	#N/A
Conformity	Yes
PASSED	Yes

COMPARISON TEST

Printer	N/A
Remote	Yes
PC	Yes
Other	N/A
PASSED	Yes

CUSTOMER CONTACT: Ted

email:

PHYSICAL CONDITION: Good
TEST WEIGHTS USED : PM1-28
DT1-17
CALIBRATION DATE : 28 June 2011

AUTHORISED PERSON : 1000043 - Alan Byrne
CERTIFICATE NO : T2211455
02830
NEXT CALIBRATION DATE: 27 June 2012

SIGNATURE : *D. Campbell*

DATE : 01/07/2011



13 Ashbourne Business Park,
Ashbourne Industrial Estate,
Ashbourne, Co. Meath.
Ph: +353 1 835 3084

WEIGHBRIDGE VERIFICATION TEST REPORT NO : SO7497

CUSTOMER:	Thortons Recycling	TYPE APPROVAL CERT NO:	F-01-A-005	
SITE ADDRESS:	Dunboyne	INDICATOR TYPE:	I300 (X222)	10000399
	Co Meath	DATA PLATE:	Yes	
SERVICE REPORT NO:	11636	INDICATOR SERIAL NO:	02F742651	
MANUFACTURER:	Precia Molen	MINIMUM CAPACITY (kg):	400	
TYPE:	Weighbridge	MAXIMUM CAPACITY (kg):	50000	
SIZE:	18m	DIVISION (e) (kg):	20	
LOCATION:	Out Bridge	PRINTER SERIAL NO:	N/A	
		TARE FACILITY:	Disabled	

Accuracy of Zero, Linearity/Hysteresis, Discrimination & Comparison Tests = *

Approximate Test Interval (e)	MPE (e)	Actual Load (kg)	Indicator Up	Display Error (e)	True Error (e)	Indicator Down	Display Error (e)	True Error (e)	SL	Discrimination	Comparison
ZERO	0.25	0	0	0.00		0	0.00				
2	0.25	40	40	0.00	0.00	41	0.05	0.05			
20	0.25	440	442	0.10	0.10	444	0.20	0.20		Yes	N/A
500	0.50	10040	10034	-0.30	-0.30	10036	-0.20	-0.20			
1000	1.0	20040	20042	0.10	0.10	20044	0.20	0.20			
1250	1.0	25040	25046	0.30	0.30	25046	0.30	0.30	SL1	Yes	Yes
2000	1.0	40040	40048	0.40	0.40	40048	0.40	0.40			
2200	1.5	44040	44052	0.60	0.60	44052	0.60	0.60	SL2	Yes	Yes
SL1		20040									
SL2		40040									
PASSED	Yes										

SL - Substitute Load

NOT TESTED AT MAX CAPACITY, BALLAST NOT PROVIDED

REPEATABILITY TEST (Zero Track On)

50%-MPE(e) 0.30
>90%-MPE(e) 1.50

ROLLING LOAD TEST

MPE(e) 1.50
Max Load 40000

	Indicator	Indicator	Indicator
50%	25042	25048	25046
>90%	45200	45206	45212
PASSED	Yes		

	Indicator	Indicator	Indicator
→	32100	32106	32108
←	32110	32108	32104
PASSED	Yes		

ECCENTRIC LOAD TEST - MPE (e): 0.5

Position	1	2	3	4	5	6	7	8	9	10
Test Load	8040	8040	8040	8040	8040	8040				
Indicator	8046	8044	8046	8034	8034	8040				
Error (e)	0.30	0.20	0.30	-0.30	-0.30	0.00				
PASSED	Yes									

LOADCELL DATA

Number	6
Make	Zemic
Type	BM14G 30-50t
Test cert	D09-05.21
Divisions	3000
Conformity	Yes
PASSED	Yes

COMPARISON TEST

Printer	N/A
Remote	Yes
PC	Yes
Other	N/A
PASSED	Yes

MARKINGS

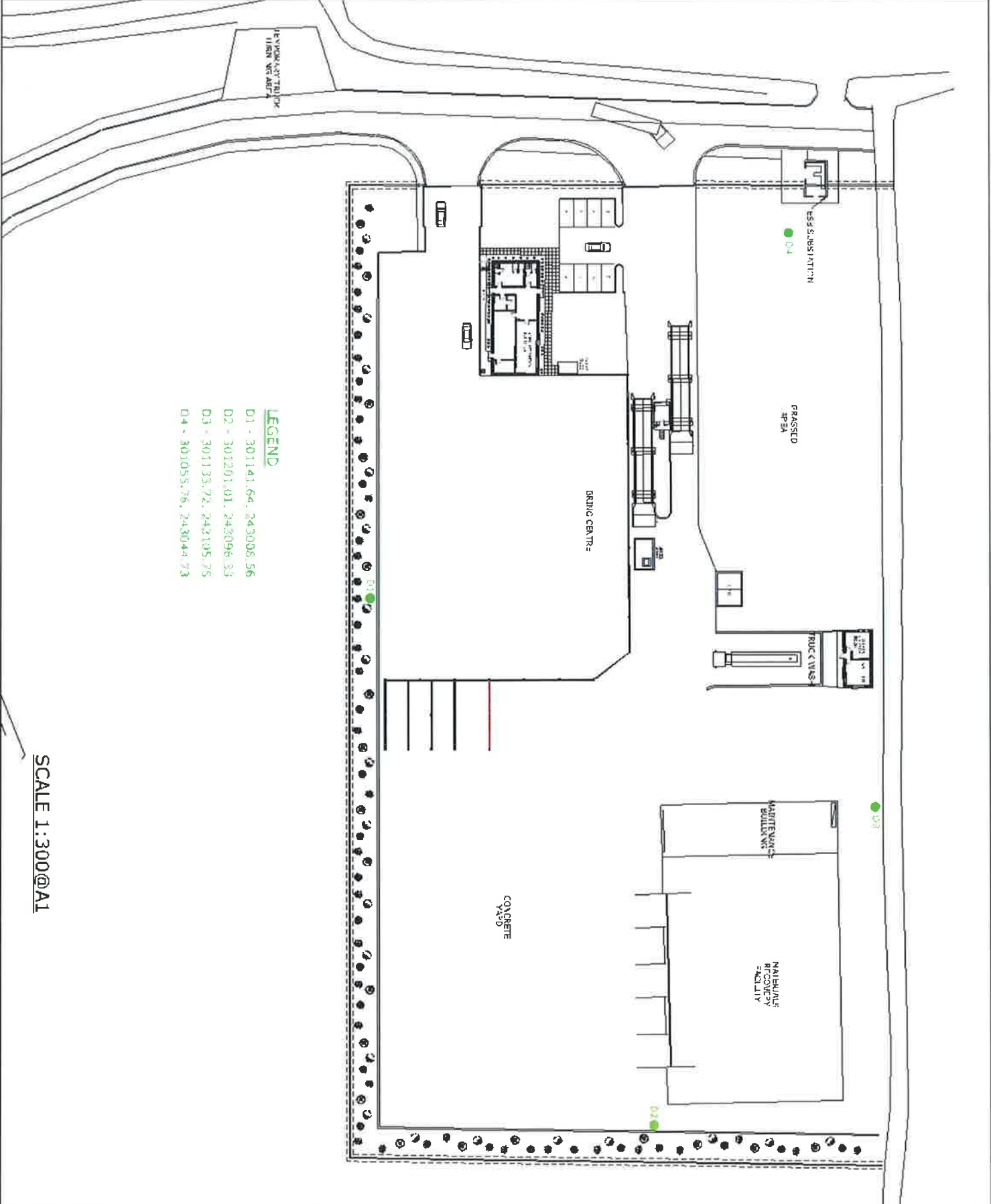
CE	Yes
SEALING	Yes
CLASS	Yes
GREEN M	Yes
PASSED	Yes

OTHER TESTS

Leveling	N/A
High Res	Yes
Max +9e	N/A
Zero 4%	N/A
PASSED	N/A

PHYSICAL CONDITION:	Good	AUTHORISED PERSON :	1000043-Alan Byrne
TEST WEIGHTS USED :	PM1-28 DT1-17	CERTIFICATE NO :	T234278 2830
VERIFICATION DATE :	07 July 2011	NEXT CALIBRATION DATE:	07 July 2012
SIGNATURE :	<i>D. Campbell</i>	DATE :	15/07/2011

Appendix 3



ROADWAY
TRENK W/ ASP

● D4

ESS SUBSTATION

GRAVELLED AREA

DRINKING CENTRE

TRUCK WASH

● D3

MAINTENANCE BUILDING

WASTE RECOVERY FACILITY

CONCRETE YARD

● D2

LEGEND

- D1 - 301141.64, 243008.56
- D2 - 301201.01, 243096.33
- D3 - 301133.72, 243105.25
- D4 - 301055.76, 243044.73

SCALE 1:300@A1

NO.	REVISION	DATE	BY	CHKD.



THORNIONS
RECYCLING
KILBERRY ROAD, DUBLIN 10
TEL: - 6235133 FAX: - 6236131
www.thornions-recycling.ie

AS BUILT

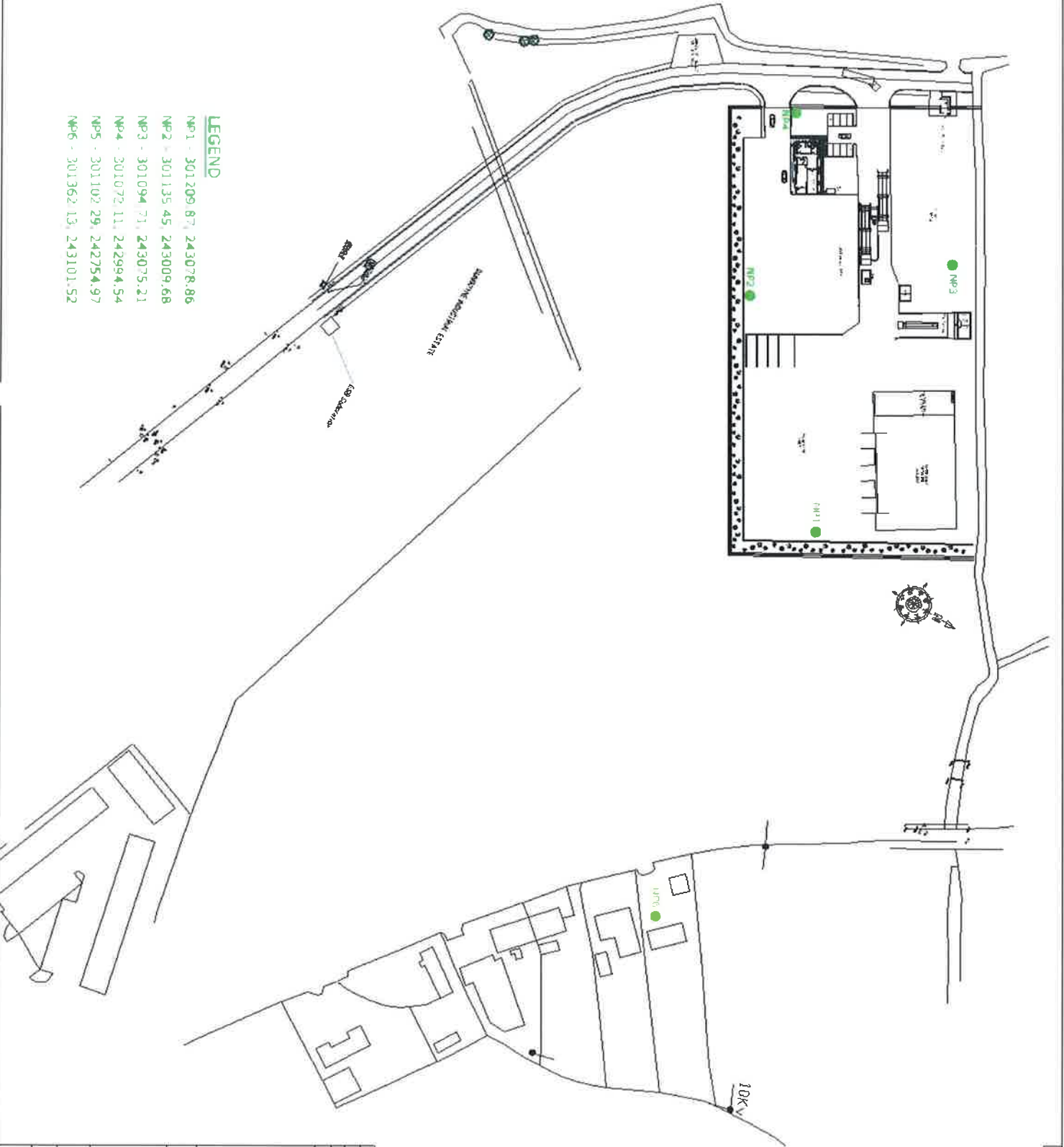
SITE LAYOUT

DUMBONE RECYCLING CENTER
SHOWING DUST MONITORING POINT
LOCATIONS

NO.	REVISION	DATE	BY	CHKD.

NO.	REVISION	DATE	BY	CHKD.

Appendix 4



LEGEND

- NP1 - 301209, 87, 243078, 86
- NP2 - 301135, 45, 243009, 68
- NP3 - 301094, 71, 243075, 21
- NP4 - 301072, 11, 242994, 54
- NP5 - 301102, 29, 242754, 97
- NP6 - 301362, 13, 243101, 52



UNIT NUMBER	NO.	DATE	STATUS
1	1		
2	2		
3	3		
4	4		
5	5		
6	6		
7	7		
8	8		
9	9		
10	10		



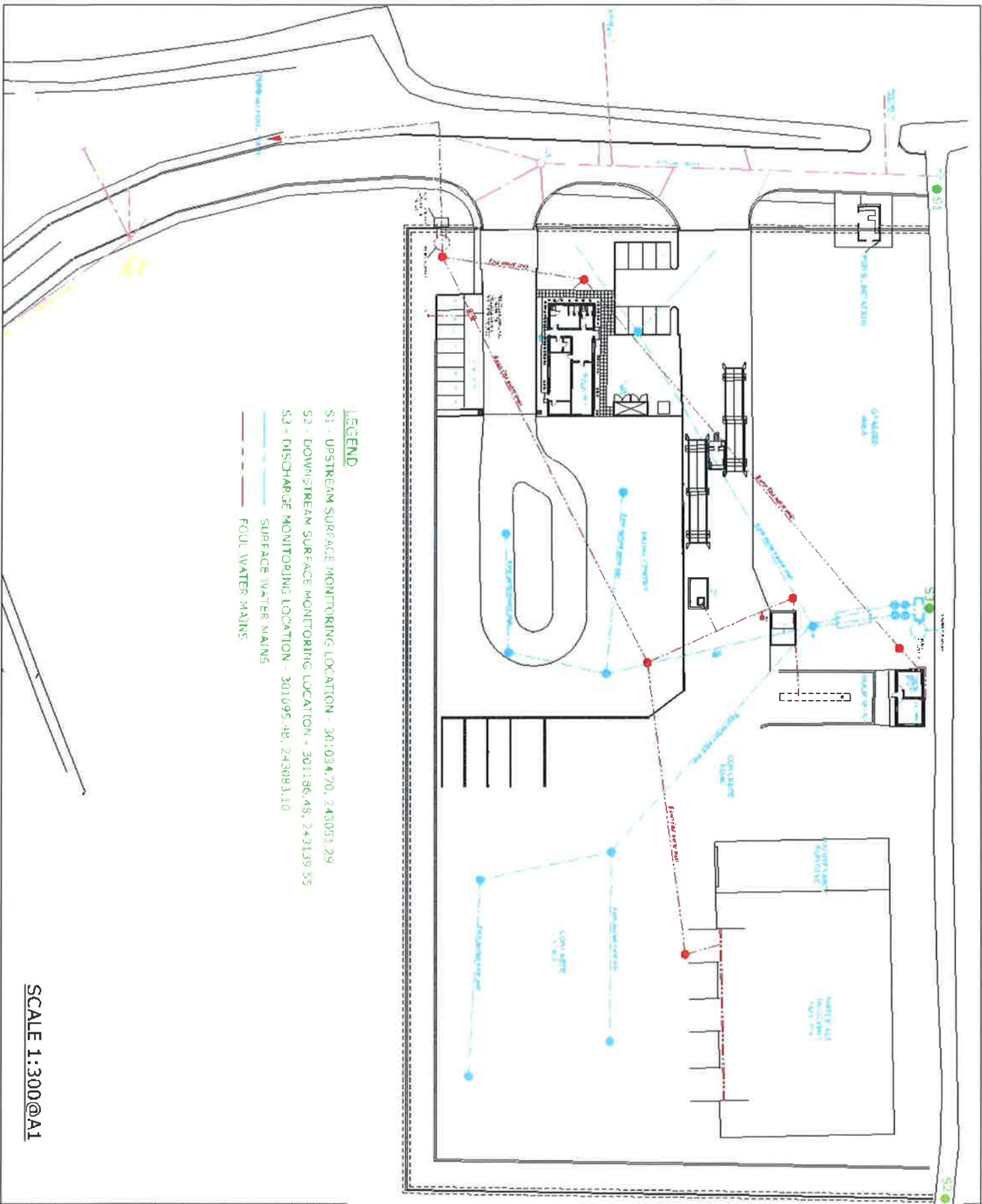
KILLEN ROAD, DUBLIN 10
 TEL: - 6385133 FAX: - 6385131
 www.hornbys-retailers.ie

AS BUILT

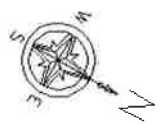
SITE LAYOUT
 DUBLIN RETAILING CENTER
 SHOWING NOISE MONITORING POINT LOCATIONS

NO.	DATE	BY
01	05/10/05	M1
02	07/10/05	M1
03	07/10/05	M1

Appendix 5



NOTES:



SCALE 1:300@A1

<p>THORNTONS RECYCLING</p> <p>KILLEEN ROAD, DUBLIN 10 TEL:- 6235133 FAX:- 6235131 www.thorntons-recycling.ie</p>		
AS BUILT		
SITE LAYOUT		
DUNDEE RECYCLING CENTER		
SHOWING DRAINAGE DISCHARGE		
MONITORING POINT LOCATIONS		
AS SHOWN	05/10/05	AI
03	7	PNC
01.2		1

Weekly Surface Water at S3			
Q1			
Date	COD	pH	Suspended Solids
EPA Trigger Levels	30mg/l	6-9	25mg/l
04.01.12	<10	7.4	<10
11.01.12	15	7.4	<10
18.01.12	Sample not taken as site closed		
25.01.12	Sample not taken as site closed		
31.01.12	<10	7.4	<20
10.02.12	<10	7.5	<20
16.02.12	<10	7.7	28.8
24.02.12	<10	7.6	<10
28.02.12	<10	7.7	<10
09.03.12	17	7.8	12
15.03.12	<10	7.7	<10
23.03.12	17	7.6	<20
27.03.12	<10	7.8	<10
Q2			
Date	COD	pH	Suspended Solids
EPA Trigger Levels	30mg/l	6-9	25mg/l
06.04.12	<10	8	21
13.04.12	62	7.8	208
18.04.12	<10	7.7	<20
27.04.12	<10	7.4	37
04.05.12	<10	9.1	<10
04.05.12	<10	7.5	<20
11.05.12	<10	9.4	<10
11.05.12	<10	7.4	<20
18.05.12	<10	8.3	<10
18.05.12	10	7.7	<20
25.05.12	<10	7.9	<10
25.05.12	<10	7.2	<20
01.06.12	11	8.4	<10
01.06.12	10	7.9	<20
08.06.12	<10	7.5	<10
15.06.12	13	7.8	<20
22.06.12	<10	7.8	<10
29.06.12	<10	7.9	<10
Q3			
Date	COD	pH	Suspended Solids

EPA Trigger Levels	30mg/l	6-9	25mg/l
06.07.12	28	9	<20
13.07.12	14	8.2	<10
20.07.12	<10	9.3	<20
27.07.12	<10	8.9	<10
03.08.12	<10	8.9	<10
10.08.12	<10	7.6	<10
17.08.12	15	7.8	<10
24.08.12	<10	9	<10
31.08.12	<20	8.7	<10
11.09.12	29	7.6	<20
14.09.12	<10	8	<20
21.09.12	17	7.8	<10
28.09.12	<10	8.9	<10
Q4			
Date	COD	pH	Suspended Solids
EPA Trigger Levels	30mg/l	6-9	25mg/l
05.10.12	16	8.1	<10
12.10.12	34	8.4	<20
16.11.12	20	8.2	<10
23.11.12	15	9.0	<10
30.11.12	13	8.6	<10
07.12.12	11	8.1	<10
14.12.12	<10	7.3	10.8
21.12.12	<10	7.2	29.2
28.12.12	<10	7.4	<10

Appendix 6

18 July, 2012

Re: *Padraig Thornton Waste Disposal Ltd and Thornton Recycling Centre Ltd*

To Whom It May Concern:

This is to confirm that we act as Insurance Brokers for the above client and that we currently hold the following covers in place on their behalf:-

Employers Liability:

Covering the legal liability of the Insured to employees for death or bodily injury or disease arising out of and in the course of their employment by the Insured in the business as described (**Waste Collection, Recycling and Disposal and Property Owners**) during the period of Insurance.

Insurers: FBD plc and QBE Insurance (Excess Layer)
Policy No.: 00433053/04/01 & Y039364QBE0210A
Renewal Date: 1st July 2013

Limit of Indemnity:

€20,000,000 any one occurrence inclusive of all costs and expenses.

Public / Products Liability:

Covering the legal liability of the Insured for accidental bodily injury to third party persons or accidental damage to third party material property arising in connection with the business and subject to the limit of indemnity specified. Including legal liability arising out of goods sold or supplied.

Insurers: FBD plc and QBE Insurance (Excess Layer)
Policy No.: 00433053/04/01 & Y039364QBE0210A
Renewal Date: 1st July 2013

Limit of Indemnity:

Public Liability €12,500,000 any one accident
Products Liability €12,500,000 any one period

Motor Insurance

Covers the Insured's Liability to Third Parties for vehicles being used in connection with the insured's business. Personal Injury cover is unlimited and Third Party Property Damage limit is €6,500,000 and €30,000,000 for private cars.

Insurers: FBD Insurance Plc and QBE Insurance (Excess Layer on MTPD)
Policy No.: 00433053/22/01 & Y039361QBE0210A
Renewal Date: 1st July 2013

All policies include Indemnity to Principals Clause applies to all policies.

We trust that this is in order but if you require further details, please do not hesitate to contact the undersigned.

Yours sincerely



Fergal Britton
Service Executive
FBD Brokers



OFFICE: W0206 | Facility Name: Padraig Thornton Waste Disposal Ltd | Filename: W0206_2012 PRTR.xls | Return Year: 2012

22/12/2012 14:45

Guidance to completing the PRTR workbook

AER Returns Workbook

REFERENCE YEAR	2012
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1. FACILITY IDENTIFICATION

Parent Company Name	Padraig Thornton Waste Disposal Limited
Facility Name	Padraig Thornton Waste Disposal Ltd
PRTR Identification Number	W0206
Licence Number	W0206-01

Waste or IPPC Classes of Activity

No.	class_name
4.13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
3.11	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.12	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
4.12	Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Dunboyne Industrial Estate
Address 2	Dunboyne
Address 3	Co Meath
Address 4	
	Meath
Country	Ireland
Coordinates of Location	-6.47927 53.4281
River Basin District	IEEA
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Mercedes Kavanagh
AER Returns Contact Email Address	mercedes@thorntons-recycling.ie
AER Returns Contact Position	Mercedes Kavanagh
AER Returns Contact Telephone Number	016202208
AER Returns Contact Mobile Phone Number	0868241034
AER Returns Contact Fax Number	01 6235131
Production Volume	50000.0
Production Volume Units	Tonnes
Number of Installations	0
Number of Operating Hours in Year	1976
Number of Employees	1
User Feedback/Comments	
Web Address	www.thorntons-recycling.ie

2. PRTR CLASS ACTIVITIES

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

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

Is it applicable?	No
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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This question is only applicable if you are an IPPC or Quarry site

SECTION A - SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT	METHOD		Please enter all quantities in this section in KGs						
	MIC/E Method Code	Method Used / Description of Description	D1 Emission Point 1	D2 Emission Point 2	D3 Emission Point 3	D4 Emission Point 4	T (Total) Kt/Year	A (Accounted) Kt/Year	F (Fugitive) Kt/Year
PM10 Particulate matter (PM10)	M	OTH 30 Composite sample measured in mg/m ³ /day using Standard Method VDI2119	0.000043	0.0000076	0.0000042	0.0000038	0.0000159	0.0	0.0

**Select rows by double-clicking on the Pollutant Name (Column B) then click the solve button

SECTION B - REMAINING PRTR POLLUTANTS

POLLUTANT	METHOD		Please enter all quantities in this section in KGs						
	MIC/E Method Code	Method Used / Description of Description	D1 Emission Point 1	D2 Emission Point 2	D3 Emission Point 3	D4 Emission Point 4	T (Total) Kt/Year	A (Accounted) Kt/Year	F (Fugitive) Kt/Year
Dust/Deposition	M	OTH 30 Composite sample measured in mg/m ³ /day using Standard Method VDI2119	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 solve button

SECTION C - REMAINING POLLUTANT EMISSIONS (As required in your license)

POLLUTANT	METHOD		Please enter all quantities in this section in KGs						
	MIC/E Method Code	Method Used / Description of Description	D1 Emission Point 1	D2 Emission Point 2	D3 Emission Point 3	D4 Emission Point 4	T (Total) Kt/Year	A (Accounted) Kt/Year	F (Fugitive) Kt/Year
Dust	M	OTH 30 Composite sample measured in mg/m ³ /day using Standard Method VDI2119	0.046	0.051	0.049	0.039	0.185	0.185	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the solve 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 for the environment under 'Total' KGs for Section A. Sector specific PRTR pollutants above. Please complete the table below.

Padding: Theorized Waste Disposal Ltd

Please enter summary data on the quantities of methane flared and / or utilised

Total estimated methane generation (as per site inventory)	Method Used / Description of Description		Facility Total Capacity m ³ per hour
	MIC/E	Method Code	
T (Total) kg/year	0.0	N/A	N/A
Methane flared	0.0		0.0 (Total Flaring Capacity)
Methane utilised in client'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](#)

SW2 (if the SW2 method is used) (Emission Point 1) (Emission Point 2) (Emission Point 3) (Emission Point 4) (Emission Point 5)

Data are entered in this section in KG's

RELEASES TO WATERS

No. Atmos (I)	Pollutant	Name	M/G/E	Method Code	M/G/E Description of Discharge	QUANTITY		
						T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
19	Chloride (as Cl)		M	OTH	Standard Methods for the examination of water and wastewater - APHA 2005 Ed	57.7	57.7	0.0
20	Compressed air/oxygen (as O ₂)		N	OTH	Standard Methods for the examination of water and wastewater - APHA 2005 Ed	0.01	0.01	0.0
21	Phosphate (as PO ₄ -P)		N	OTH	Standard Methods for the examination of water and wastewater - APHA 2005 Ed	0.06	0.06	0.0
24	Zinc and compounds (as Zn)		M	OTH	Standard Methods for the examination of water and wastewater - APHA 2005 Ed	0.01	0.01	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

POLLUTANT		Name		Method Code		Description of Discharge		QUANTITY		
No. Atmos (I)								T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) 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 C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

POLLUTANT		Name		Method Code		Description of Discharge		QUANTITY		
No. Atmos (I)								T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
202	BOD		M	OTH	Standard Methods for the examination of water and wastewater - APHA 2005 Ed			7.9	0.0	7.9
203	CO ₂		M	OTH	Standard Methods for the examination of water and wastewater - APHA 2005 Ed			48.2	0.0	48.2
240	Suspended Solids		M	OTH	Standard Methods for the examination of water and wastewater - APHA 2005 Ed			13.9	0.0	13.9
357	Chlorophyll (as P)		M	OTH	Standard Methods for the examination of water and wastewater - APHA 2005 Ed			0.09	0.0	0.09
208	Ammonia (as N)		M	OTH	Standard Methods for the examination of water and wastewater - APHA 2005 Ed			0.5	0.0	0.5
308	Dissolved (as MEAS)		M	OTH	Standard Methods for the examination of water and wastewater - APHA 2005 Ed			0.236	0.0	0.236
324	Metals (as)		M	OTH	Standard Methods for the examination of water and wastewater - APHA 2005 Ed			0.76	0.0	0.76

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

SECTION A - PTRR POLLUTANTS

Pollutant No.	Pollutant Name	METHOD		Please enter all quantities in this section in KGs				
		MOUE	Method Code	Method Used	Quantity	Quantity	Quantity	
				Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
79	Chlorides (as Cl)	M	PER	Standard method for the examination of water and wastewater APHA20th Ed		104.4	104.4	0.0
78	Total phosphorus	M	PER	Standard method for the examination of water and wastewater APHA20th Ed		0.87	0.87	0.0
76	Total organic carbon (TOC) (as total C or COD(3))	M	PER	Standard method for the examination of water and wastewater APHA20th Ed		83.18	83.18	0.0
74	Phenols (as total C)	M	PER	Standard method for the examination of water and wastewater APHA20th Ed		0.17	0.17	0.0
						0.0	0.0	0.0

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

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

Pollutant No.	Pollutant Name	METHOD		Please enter all quantities in this section in KGs				
		MOUE	Method Code	Method Used	Quantity	Quantity	Quantity	
				Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
400	BOD	M	PER	Standard method for the examination of water and wastewater APHA20th Ed		223.5	223.5	0.0
500	CrD	M	PER	Standard method for the examination of water and wastewater APHA20th Ed		249.5	249.5	0.0
240	Suspended Solids	M	PER	Standard method for the examination of water and wastewater APHA20th Ed		93.9	93.9	0.0
307	Nitrate (as N)	M	PER	Standard method for the examination of water and wastewater APHA20th Ed		2.39	2.39	0.0
238	Ammonia (as N)	M	PER	Standard method for the examination of water and wastewater APHA20th Ed		14.54	14.54	0.0
324	Mineral oils	M	PER	Standard method for the examination of water and wastewater APHA20th Ed		29.16	29.16	0.0
241	Sulphate	M	PER	Standard method for the examination of water and wastewater APHA20th Ed		1337.0	1337.0	0.0
306	Detergents (as MBAS)	M	PER	Standard method for the examination of water and wastewater APHA20th Ed		0.42	0.42	0.0
347	Total Heavy metals	M	PER	Standard method for the examination of water and wastewater APHA20th Ed		0.25	0.25	0.0

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

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

(Please provide a valid date. Pick any time on Week (Monday) to Friday 00:00 to 23:59. If you are reporting for a previous year, 2017)

06/09/2017 11:14

SECTION A : PRTR POLLUTANTS

POLLUTANT		METHOD		Emission Point 1		QUANTITY	
No Annex II	Name	M/C/E	Method Code	Description of Descriptor	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)

POLLUTANT		METHOD		Emission Point 1		QUANTITY	
Pollutant No	Name	M/C/E	Method Code	Description of Descriptor	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

8. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes

Transfer Description	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Site Waste Name and Licence/Permit No. of Host Destination Facility Not Site Waste Name and Licence/Permit No. of Recover/Disposer	Site Waste Address of Host Destination Facility Not Site Waste Address of Recover/Disposer	Name and Licence / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination (Final Recovery / Disposal Site) (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	15 01 04	No	0.74	metallic packaging discarded equipment containing	R4	M	Weighted	Offsite in Ireland	PTWDL T/A Thomsons Recycling MDR,WFP-DC-10-0021-01	Unit S1 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	20 01 23	Yes	37.13	chlorofluorocarbons other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12	R13	M	Weighted	Offsite in Ireland	ERP Contract ERP Contract	ERP Contract, Ireland	ERP Contract, Ireland	ERP Contract, Ireland
Within the Country	19 12 12	No	19.42	11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12	R5	M	Weighted	Offsite in Ireland	Bord na Mona Drahid Landfill, W0201-03	Drehid, Co. Kildare, Ireland		
Within the Country	19 12 12	No	41.74	11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12	R5	M	Weighted	Offsite in Ireland	Various farmers	Ireland		
Within the Country	19 12 12	No	30.18	11 road construction and demolition wastes other than those mentioned in 17 09 01, 17	R5	M	Weighted	Offsite in Ireland	Bord na Mona Drahid Landfill, W0201-03	Drehid, Co. Kildare, Ireland		
Within the Country	17 09 04	No	282.52	09 02 and 17 09 03	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomsons Recycling Kileen Road, W0044-02	Drehid, Co. Kildare, Ireland		
Within the Country	19 12 02	No	9.72	ferrous metal	R4	M	Weighted	Offsite in Ireland	Hammond Lane W/P86107 PTWDL T/A Thomsons Recycling Kileen Road, W0044-02	Pigeon House Road, Dublin, Ireland		
Within the Country	19 12 02	No	14.02	ferrous metal	R4	M	Weighted	Offsite in Ireland	National Recycling/Cummins Metals, W/P9002	Clonsilla Road, Clonsilla, Dublin		
Within the Country	19 12 02	No	1.85	ferrous metal	R4	M	Weighted	Offsite in Ireland	Rehab Glassco Ltd, WFP-KE-08-0357-01	Obeserem Industrial Estate, Neas, Co. Kildare, Ireland		
Within the Country	15 01 07	No	23.34	glass packaging	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomsons Recycling PCM Woodchipping, WFP-KE-10-0081-01	Oldmilltown, Kilt, Co. Kildare, Ireland		
Within the Country	19 12 07	No	81.68	wood other than that mentioned in 19 12 06	R3	M	Weighted	Offsite in Ireland	Bord na Mona Drahid Landfill, W0201-03	Drehid, Co. Kildare, Ireland		
Within the Country	19 12 09	No	106.16	minerals (for example sand, slimes) discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R13	M	Weighted	Offsite in Ireland	ERP Contract ERP Contract	ERP Contract, Ireland		
Within the Country	20 01 36	No	9.8	01 21, 20 01 23 and 20 01 35	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomsons Recycling Kileen Road, Ballyfermot, Dublin, 10, Ireland	Unit S1 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	19 12 07	No	5.86	wood other than that mentioned in 19 12 06	R3	M	Weighted	Offsite in Ireland	PTWDL T/A Thomsons Recycling Kileen Road, W0044-02	Unit S1 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	15 01 05	No	1.58	composite packaging	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomsons Recycling Kileen Road, W0044-02	Unit S1 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	20 01 02	No	2.66	glass	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomsons Recycling Kileen Road, W0044-02	Unit S1 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	20 03 01	No	58.82	mixed municipal waste	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomsons Recycling MDR,WFP-DC-10-0021-01	Unit S1 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	20 03 01	No	21.35	mixed municipal waste	D5	M	Weighted	Offsite in Ireland	Bord na Mona Drahid Landfill, W0201-03	Drehid, Co. Kildare, Ireland		
Within the Country	20 03 01	No	50.78	mixed municipal waste	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomsons Recycling Kileen Road, W0044-02	Kileen Road, Ballyfermot, Dublin, 10, Ireland		
Within the Country	15 01 03	No	45.04	wooden packaging	R3	M	Weighted	Offsite in Ireland	PTWDL T/A Thomsons Recycling Kileen Road, W0044-02	Kileen Road, Ballyfermot, Dublin, 10, Ireland		
Within the Country	20 02 01	No	21.14	biodegradable waste soil and slimes other than those mentioned	R13	M	Weighted	Offsite in Ireland	Enrich Environmental WFP/MS-9-0004-01	Newtown, Rathganley, Killock, Co. Meath, Ireland		
Within the Country	17 05 04	No	32.88	in 17 05 03	R13	M	Weighted	Offsite in Ireland	Kernan Sand and Gravel WMP-2007-22	Fadwain, Sluamshill, Co. Meath, Ireland		
Within the Country	20 01 39	No	7.1	plastics	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomsons Recycling MDR,WFP-DC-10-0021-01	Unit S1 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	20 01 39	No	2.38	plastics	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomsons Recycling Kileen Road, W0044-02	Kileen Road, Ballyfermot, Dublin, 10, Ireland		
Within the Country	15 01 02	No	4.68	plastic packaging	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomsons Recycling MDR,WFP-DC-10-0021-01	Unit S1 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	19 12 10	No	43.74	combustible waste (refuse derived fuel)	R1	M	Weighted	Offsite in Ireland	PTWDL T/A Thomsons Recycling Kileen Road, W0044-02	Kileen Road, Ballyfermot, Dublin, 10, Ireland		
Within the Country	19 12 10	No	99.40	combustible waste (refuse derived fuel)	R1	M	Weighted	Offsite in Ireland	Laogan Cement, P0487-05	Kinnagad, Co. West Meath, Co. West Meath, Ireland		
Within the Country	19 12 10	No	4231.78	combustible waste (refuse derived fuel)	R1	M	Weighted	Offsite in Ireland	Irish Cement, P00030-04	Louth, Ireland		
Within the Country	15 01 01	No	32.9	paper and cardboard packaging	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomsons Recycling MDR,WFP-DC-10-0021-01	Unit S1 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	20 01 01	No	30.36	paper and cardboard	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomsons Recycling MDR,WFP-DC-10-0021-01	Unit S1 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	20 01 39	No	8.42	plastics	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomsons Recycling Kileen Road, W0044-02	Kileen Road, Ballyfermot, Dublin, 10, Ireland		
Within the Country	20 01 10	No	4.13	clothes	R13	M	Weighted	Offsite in Ireland	Textile Recycling, Nol Applicable	Greenogue Business Park, Saggart Co. Dublin, Ireland		

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