

# PADRAIG THORNTON WASTE DISPOSAL LTD

## DUNBOYNE CIVIC AMENITY AND MATERIALS RECYCLING FACILITY Waste License W0206-01



## ANNUAL ENVIRONMENTAL REPORT 2015

Submitted February 2016

*Prepared by Grace Curran – Environmental Officer*

# Table of Contents

<b>List of Tables 2015</b> .....	2
1. Introduction .....	3
2. Description of the Site and Licensed Waste Activities.....	3
3. Waste Management Record .....	4
3.1 Waste Acceptance .....	4
3.2 Waste Received 2015.....	5
3.3 Waste Consigned 2015 .....	7
4. Dust and Particulate Matter Monitoring .....	8
4.1 Dust Monitoring.....	8
4.2 Particulate Matter Monitoring.....	9
5. Noise Monitoring .....	9
6. Emissions to Surface Water and Foul Water .....	10
6.1 Surface Water monitoring.....	10
6.2 Foul Water Monitoring .....	11
7. Resource Consumption Summary.....	12
7.1 Water.....	12
7.2 Diesel .....	13
7.3 ESB .....	13
8. Complaints Summary.....	14
9. Schedule of Environmental Objectives and Targets and Environmental Management Programme .....	14
10. Tank and Pipeline Inspection Report.....	14
10.1 Tank Bunding.....	14
10.2 Pipeline Testing .....	14
11. Reported Incidents Summary.....	15
12. Odour Management Programme.....	15
13. Energy Efficiency Audit Report Summary.....	15
14. Pest Control Programme Report .....	15
15. Report on Progress made and Proposals being developed to Minimise Water Demand and the Volume of Trade Effluent Discharge .....	15
15.1 Water Requirements.....	15
15.2 Water supply and Storage .....	16
15.3 Foul water discharge .....	16
15.4 Progress on Minimisation of Water Usage .....	16
16. Reports on Financial Provision made under this License, Site Management structure of the facility and a Programme for Public Information.....	16
16.1 Financial Provision .....	16
16.2 Site Management Structure 2015.....	17
16.3 Program of Public Information .....	17
17. Environmental Liabilities.....	18

## List of Tables 2015

Table 1 - Summary of Waste accepted at the MRF during 2015.....	6
Table 2 - Summary of Waste accepted at the CA site during 2015.....	7
Table 3 - Summary of Waste consigned from the site during 2015 .....	7
Table 4 - Dust deposition results for each dust monitoring location per quarter during the year 2015.....	8
Table 6 - Annual noise monitoring results for the period of 2015 at 6 locations .....	9
Table 6 - Surface water monitoring results per quarter of 2015 at monitoring location SW3.....	10
Table 7 - Foul water monitoring results per quarter of 2015.....	11
Table 8 - Heavy Metal Results for Foul Water 2015.....	11
Table 9 - Foul and Surface Water discharges from 2014-2015 (m <sup>3</sup> ).....	12
Table 10 - Comparison of ESB energy usage between 2014- 2015 .....	13

## List of Appendices 2015

<b>Appendix 1</b> – Dust Deposition and PM10 monitoring locations
<b>Appendix 2</b> – Noise monitoring locations
<b>Appendix 3</b> - Surface and Foul water monitoring location
<b>Appendix 4</b> - Summary of Insurance Details 2015-2016
<b>Appendix 5</b> – Schedule of Environmental Objectives and target 2015 and 2016
<b>Appendix 6</b> – PRTR for Dunboyne

## **1. Introduction**

Padraig Thornton Waste Disposal Limited (PTWDL) operates waste license (W0206-01) which was issued by the Environmental Protection Agency (EPA) on the 25<sup>th</sup> 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 31<sup>th</sup> of each year for the preceding calendar year. This AER is for the period from the 1<sup>st</sup> January 2015 to 31<sup>st</sup> December 2015.

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 6235131

EPA Site Contact: Grace Curran / David Duff

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 Luttrell 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 Schedule<sup>1</sup> and Fourth Schedule<sup>2</sup> 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**

The MRF was used for temporary storage and baling of SRF from January – April 2015. From June to December 2015 the facility was used to process skip waste. The civic amenity site remained open to the public throughout 2015. All waste which entered the facility was checked and documented at the self-weighing weighbridge facility in accordance with our waste license W0206-01 and waste acceptance procedure EP13. Weights from householders bringing bulky materials to the civic amenity are calculated from the weights of the bulked loads before they are consigned from 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.

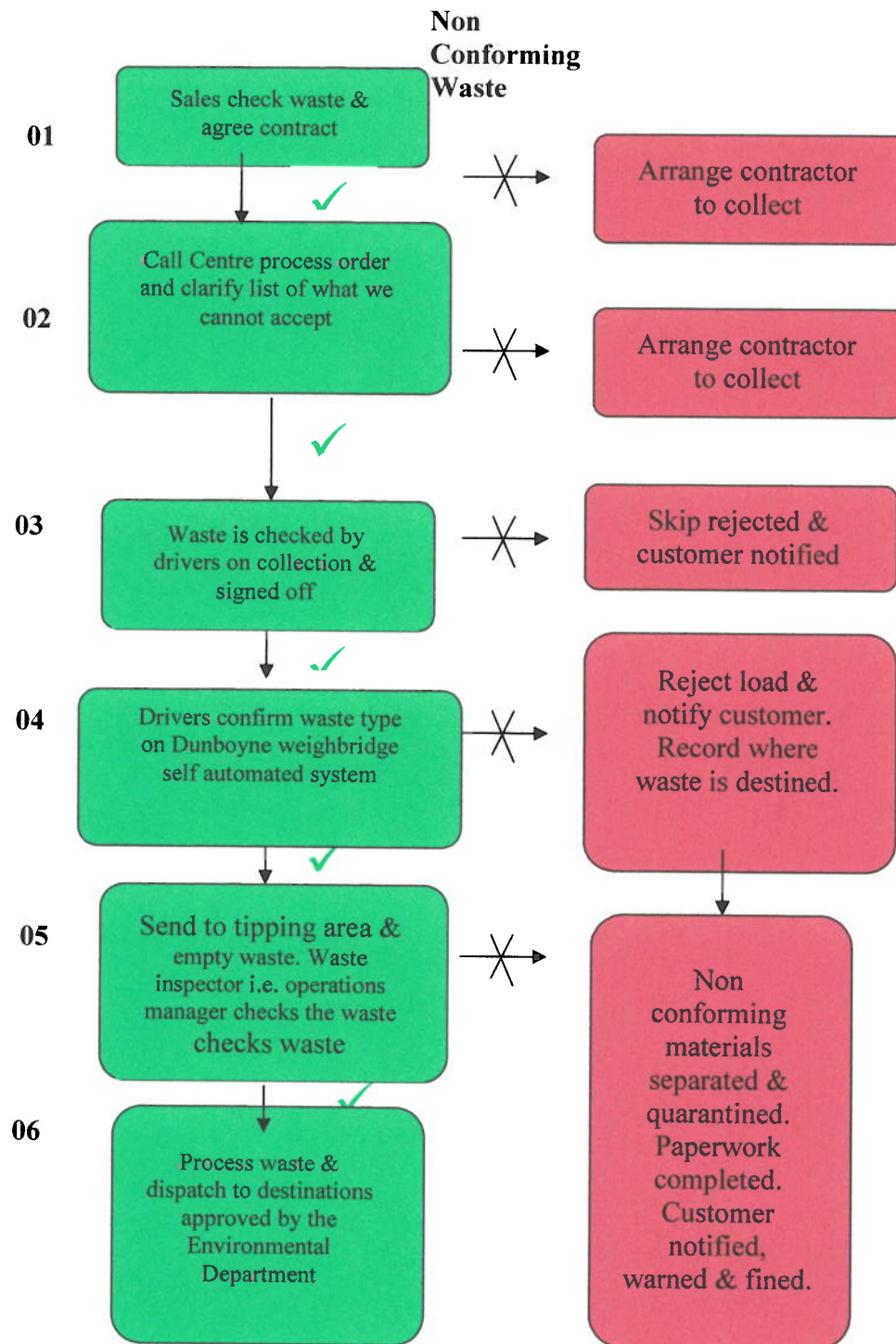
#### **3.1 Waste Acceptance**

*Figure 1* below is a simplified diagram explaining the normal waste acceptance procedures at Thorntons Recycling Dunboyne

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<sup>1</sup> Third Schedule- Waste Disposal Activities

<sup>2</sup> Fourth Schedule- Waste Recovery Activities



### 3.2 Waste Received 2015

A total of 37,863.02 tonnes of material was received at the Materials Recovery Facility (MRF) between 1<sup>st</sup> January 2015 and 31<sup>st</sup> December 2015. Of this 37851.35 tonnes

7,414.59 tonnes was Solid Recovered Fuel (SRF) material for short term storage before being dispatched to approved facilities. A summary of the waste that was accepted during the year in the MRF building and the civic amenity site is detailed in Table 1 and 2 below;

**Table 1 - Summary of Waste accepted at the MRF during 2015**

<b>EWC</b>	<b>Material Received</b>	<b>Sum</b>
20 03 07	MMW Bulky	16734.63
15 01 03	Wood Packaging	423.54
17 02 01	Wood C&D Waste Wood	219.18
19 12 07	Wood processed or chipped	55.24
03 01 05	Wood Waste Manufacturing	39.69
17 02 03	Mixed Plastic Hard	4.97
20 01 39	Mixed plastic wrap - low grade	2.42
17 08 02	Plasterboard / gypsum	19.50
17 01 07	Clean Construction Rubble	0.00
17 05 04	Soil and Stone	3775.14
17 09 04	Mixed C&D Waste	7788.15
17 04 07	Metal Mixed C&D	10.65
19 12 02	Ferrous Metal Mixed Steel	30.57
15 01 01	Cardboard	6.32
20 01 01	Mixed paper (Dry recycling)	2.22
20 02 01	Green Waste	377.32
20 01 02	Glass	7.90
19 12 10	Combustible Waste SRF Storage	7414.59
	<b>Total Into MRF Building</b>	<b>36912.03</b>

Table 2 - Summary of Waste accepted at the CA site during 2015

<b>EWC</b>	<b>Material Received</b>	<b>Sum</b>
15 01 02	Mixed Plastic Bottles C.A	4.48
15 01 04	Aluminium C.A	2.14
15 01 05	Tetra- Pak C.A	0.88
15 01 01	Cardboard C.A	23.78
15 01 02	Mixed Plastic Film C.A	12.06
20 01 01	Mixed paper C.A	31.22
20 01 10	Clothes Banks C.A	3.31
15 01 07	Glass Packaging (Bottles) C.A	25.82
16 06 01*	Batteries (WT)	3.44
20 01 33*	Batteries (Household)	0.16
20 01 21*	Fluorescent Lights	0.34
15 01 03	Wood Packaging	61.27
17 09 04	Mixed C&D Waste	232.99
19 12 07	Processed Wood	91.03
20 01 27*	Paints and Inks	1.50
20 01 40	Ferrous Metal Mixed Steel	40.26
20 02 01	Green Waste	90.72
20 03 07	Bulky Waste	237.77
20 01 36	Mixed WEEE	54.63
20 01 35*	Cold (Fridges /Freezers) WEEE	12.03
16 02 11*	CRT (TVs) WEEE	27.01
	<b>Total into CA Site</b>	<b>956.84</b>

### 3.3 Waste Consigned 2015

A total of 32,617.78 tonnes of waste material was consigned from the facility during the reporting period of 2015. This tonnage includes tonnage which came through the civic amenity site.

Table 3 - Summary of Waste consigned from the site during 2015

<b>Summary</b>	
<b>Metals</b>	<b>354.05</b>
<b>Concrete</b>	<b>75.04</b>
<b>Rubble</b>	<b>6061.56</b>
<b>Wood</b>	<b>2077.15</b>
<b>Glass Bottles</b>	<b>25.82</b>



<b>Trommel Fines</b>	<b>9660.25</b>
<b>Mixed Dry Recyclables</b>	<b>88.16</b>
<b>MMW Landfill &amp; Killeen Rd</b>	<b>798.12</b>
<b>C&amp;D to Killeen road</b>	<b>825.08</b>
<b>Bulky MMW to Killeen road</b>	<b>2057.86</b>
<b>SRF</b>	<b>7059.94</b>
<b>Soil and Stones</b>	<b>3288.69</b>
<b>WEEE</b>	<b>93.67</b>
<b>Batteries</b>	<b>3.61</b>
<b>Lights</b>	<b>0.34</b>
<b>Paints</b>	<b>1.50</b>
<b>Textiles</b>	<b>3.84</b>
<b>Greens</b>	<b>143.10</b>
<b>SUM</b>	<b>32617.78</b>

Due to an increase in the Construction trade and commercial/ industrial and household skip waste the facility was re-opened for processing in June 2015 and the EPA was notified accordingly.

#### 4. Dust and Particulate Matter Monitoring

##### 4.1 Dust Monitoring

In compliance with Condition C.6 of waste license W0206-01 dust deposition was carried out quarterly at the facility and subsequent reports were forwarded to the EPA. The monitoring locations are shown in Appendix 1 of this report. Dust deposition monitoring was carried out by independent consultants, Odour Monitoring Ireland during 2015.

Quarter 1 02/04/15 – EPA Reference LR015572

Quarter 2 08/07/15 – EPA Reference LR017145

Quarter 3 15/09/15 – EPA Reference LR018449

Quarter 4 15/12/15 – EPA Reference LR019836

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 2015**

<b>Monitoring</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>	<b>ELV</b>
<b>Locations</b>					<b>mg/m<sup>2</sup>/day</b>
D1	100	95	93	91	350
D2	172	168	160	155	350
D3	168	175	178	174	350
D4	120	116	120	122	350

The dust deposition results above show that there was no exceedance in the emission limit values for dust deposition in 2015 at the facility.

#### 4.2 Particulate Matter Monitoring

Permission was granted from the Agency on the 10<sup>th</sup> October 2014 to cease PM10 monitoring at the facility and no further monitoring was carried out in 2015.

### 5 Noise Monitoring

During 2015 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 in June/July 2015 and the subsequent report was forwarded to the EPA as per license conditions. (Submitted 07/08/15, EPA Reference LR017926). As the site only operated for 6 months of the year an agreement was reached with the Agency to carry out annual noise monitoring in 2015 rather than biannual (27/05/15 EPA Reference LR16419). The monitoring locations are contained within Appendix 2 of this report. 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 2015 and show the recorded noise levels during the respective noise monitoring periods.

The analysis of the results from the noise monitoring submitted to the EPA shows that the noise levels at the noise sensitive locations are not adversely impacted upon by the site activities in 2015. Elevations at the noise sensitive receptors (NP5 and NP6) can largely be attributed to passing traffic and off site activity.

**Table 5 - Annual noise monitoring results for the period of 2015 at 6 locations**

Monitoring Locations	30.06.15 & 31.07.15			ELV (dB)
	LA, eq (dB)	LA 10 (dB)	LA90(dB)	
NP1	66.7	69.2	48.5	N/A
NP2	60.8	64.5	46.4	N/A
NP3	59.2	61.9	49.8	N/A
NP4	54	56.6	45.5	N/A
NP5	52.3	56.6	40.5	55
NP6	62.6	59.6	43.8	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 3. Quarterly reports were forwarded to EPA as per the waste license.

### 6.1 Surface Water monitoring

The waste license W0206-01 requires that 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. Quarterly monitoring reports have been forwarded to the EPA with detailed explanations of results.

Quarter 1 13/04/15 – EPA Reference LR015716

Quarter 2 10/07/15 – EPA Reference LR017218

Quarter 3 02/10/15 – EPA Reference LR018691

Quarter 4 16/12/15 – EPA Reference LR019869

Monitoring point SW3 is the discharge point from the facility to the local drain. The results for 2015 monitoring can be seen in Table 6

**Table 6 - Surface water monitoring results per quarter of 2015 at monitoring location SW3**

Surface Water 3 - Discharge Pipe						
Monitoring	Quarter 1	Quarter 1	Quarter 2	Quarter 3	Quarter 4	EPA Trigger
Parameters	05.02.15 Baling SRF on site	24.02.15 Add sample due to SRF storage	01.05.15 SRF storage on site	28.08.15	08.10.15	mg/l
BOD	1	1	2	1	2	
COD	<10	<10	<10	<10	9	30
Suspended Solids	<10	<10	<10	27	21	25
pH	7.4	7.6	7.7	8.3	7.3	6 - 9
Orthophosphate (as P)	0.08	<0.02	<0.02	<0.02	0.03	
Ammonia as NH3-N	0.06	0.05	0.02	0.1	0.24	
Visual inspection	Log maintained on site					

The surface water was historically sampled weekly by an independent consultant at SW3, however following an EPA site inspection on the 11<sup>th</sup> March 2014 (EPA Reference SV00072) it was instructed that the licensee shall “only sample SW3 when there is sufficient flow”. All results have been forwarded to the EPA in quarterly reports in 2015 in relation to weekly samples. There are no emission limit levels detailed in the licence however the EPA set trigger levels for this weekly sample in correspondence dated the 24<sup>th</sup> January 2011 (reference W0206-01/NC06NH).

These trigger levels set by the EPA were also used to compare quarterly samples during 2015. From quarterly reports there was only one exceedance in suspended solids in quarter 3 of 2mg/l. This was reported to the EPA as an incident.

## 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 and reports were submitted to the EPA.

Quarter 1 13/04/15 – EPA Reference LR015717

Quarter 2 13/07/15 – EPA Reference LR017321

Quarter 3 24/08/15 – EPA Reference LR018132

Quarter 4 16/12/15 – EPA Reference LR019868

Table 7 and Table 8 details foul water monitoring results for 2015

**Table 7 - Foul water monitoring results per quarter of 2015**

Monitoring	Quarter 1		Quarter 2	Quarter 3	Quarter 4	ELV
Parameters	06.02.15	Resample following drain cleaning 24.02.15	19.06.15	28.07.15	20.11.15	mg/l
BOD	494	11	6	220	181	1000
COD	1277	29	62	576	540	3000
Suspended Solids	1314	<20	62	688	350	1000
pH	7.2	7.9		7.7		6 - 10
Phosphorus (as P)	5.2	0.4	0.12	3.8	4	20
Nitrates (as NO <sub>3</sub> )	<5.0	13.5	<5	<5	<5	100
Total Ammonia	12.16	0.71	0.86	6.3	8.38	10
Mineral Oils	6.89	0.37	0.047		0.545	20
Sulphates (as SO <sub>4</sub> )	133.05	56.74	180.5	245.95	229.65	1000
Detergents MBAS	<0.4	<0.2	<0.2	<0.2	<0.2	20
Phenols	0.03	0.005	0.005	0.005	0.005	0.1
Chloride	218.5	30.1	19.8	25.3	22.8	250

**Table 8 - Heavy Metal Results for Foul Water 2015**

Monitoring	Quarter 1	Quarter 3
Parameters ug/l	06.02.15	28.07.15
Dissolved Zinc Low Level	<0.018	<0.018
Dissolved Mercury Low Level	0.13	0.36

Dissolved Arsenic Low Level	0.002	<0.001
Dissolved Cadmium Low Level	<0.0006	<0.0006
Dissolved Chromium Low Level	<0.002	<0.002
Dissolved Copper Low Level	<0.009	<0.009
Dissolved Lead Low Level	<0.006	<0.006
Dissolved Nickel Low Level	0.013	<0.003
Dissolved Selenium Low Level	<0.80	1.39
<b>Units measured in ug/l</b>		

The discharge to the foul water for each quarter of 2015 was below the emission limit values set down by the waste license with the exception of Ammonia and Suspended Solids in Quarter 1 which was reported to the EPA and corrective actions put in place. The heavy metals in the foul water were also measured during the reporting period, which is in compliance with the bi-annual monitoring requirements as per condition C.3.2 of the waste license.

## 7. Resource Consumption Summary

This section details the resources used by the facility during the period of 1<sup>st</sup> January 2015 to the 31<sup>st</sup> December 2015. Resources that were monitored include fuels, water and ESB.

### 7.1 Water

In 2015 3,982m<sup>3</sup> of foul water was discharged from the site at FW1, as measured from the continuous recording meter located at the discharge point. 8,264m<sup>3</sup> 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 9 - Foul and Surface Water discharges from 2014-2015 (m<sup>3</sup>)**

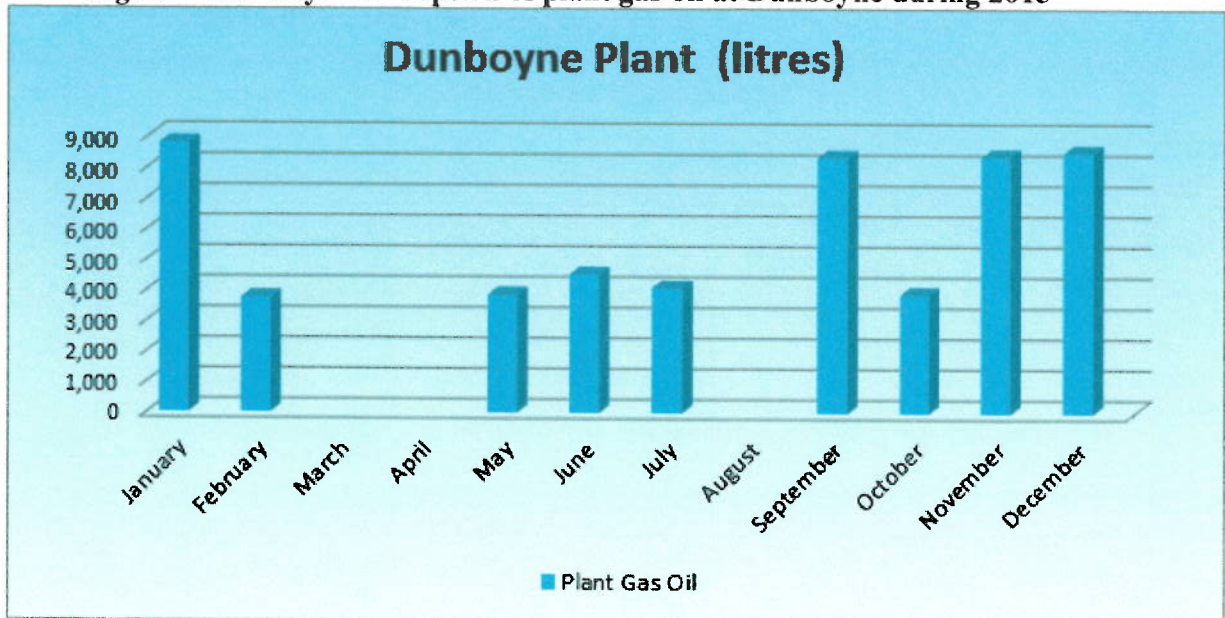
	2014	2015
Foul	4053	3982
Surface	5355	8264

## 7.2 Diesel

Plant diesel is used onsite for the loading shovels, fuchs and the generator powering the processing line. During 2015 skip waste was diverted to Thorntons Recycling Centre, Killeen Road, Dublin 10, Waste License W0044-02 until June when processing commenced once again on site. The MRF was largely used for the storage of SRF during the first few months of the year while Cement Kilns in Ireland were carrying out their yearly shut down for maintenance works.

In total 54,044 liters of plant diesel (Gas Oil) was delivered to the facility in 2015.

**Figure 2 Monthly consumption of plant gas oil at Dunboyne during 2015**



## 7.3 ESB

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

Table 10 displays the annual usage of electricity from 2014-2015

**Table 10 - Comparison of ESB energy usage between 2014- 2015**

Year	Day k/Wh	Night k/Wh
2014	41585	15300
2015	66502	20220

## **8 Complaints Summary**

There were No complaints made to either Thorntons or the EPA for this facility in 2015.

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 2016 is maintained on the IMS/X Drive. A copy of the Schedule of Objectives and Targets completed for 2015 and the Schedule of Objectives and Targets for 2016 can be found in Appendix 5. The Schedule of Objectives and Targets 2016 may be amended and finalized after the management review in March 2016.

## **10 Tank and Pipeline Inspection Report**

### **10.1 Tank Bunding**

Thorntons Recycling commissioned Fehily, Timoney and Company 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 and passed and were submitted to the Agency in 2014. Road diesel submitted 30<sup>th</sup> July 2014 (Reference LR011381) and Kerosene and Plant diesel bund certificates were submitted on the 7<sup>th</sup> July 2014 (Reference LR010487) via the online LMA reporting system. Bunds are due to be retested in 2017.

### **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 November 2014. A full detailed copy of this report was forwarded to the EPA on the 8<sup>th</sup> December 2014 (Reference LR013622).

## **11 Reported Incidents Summary**

There were two incidents reported to the EPA in 2015. One incident related to the surface water breaching trigger levels for suspended solids and the other related to ammonia and suspended solids breaching limits set for the foul water line.

## **12 Odour Management Programme**

In 2015 all skip waste was diverted from the facility to be processed at Thorntons Recycling, Killeen Road W0044-02 until June. The facility was only used for the temporary baling and storage of SRF during the first half of the year. This material has been mechanically treated off site and would have a very low risk of potential odour emissions. No complaints in relation to odour were received at the facility in 2015.

## **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 2015 was very low. 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 is required on the site for the following activities;

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

However in 2015 the site remained largely inactive until June 2015 so water was only used for sanitary facilities and truck washing for half the year. There was no fire at the site during 2015, 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 have 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. An 80m<sup>3</sup> 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.

## **15.3 Foul water discharge**

The license permits a maximum of 30m<sup>3</sup>/day to be discharge into the foul water. This equated to a total of 9360m<sup>3</sup> per year based on a six day working week. The meter reading on the foul water discharge shows that approximately 3,982m<sup>3</sup> was discharged from the facility during 2015.

## **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 until June 2015. The site was predominantly used for the storage of Solid Recovered Fuel (SRF) awaiting dispatch to approved cement kilns in Ireland for the first half of the year and the Civic Amenity site remained active. The main demand on water is related to washing of skip trucks. 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 JLT (Appendix 4). PTWDL is insured for Employers Liability, Public/Products Liability and Motor Insurance.

Thorntons Recycling is insured under public liability for €13 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 31<sup>st</sup> December 2014. 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. 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.

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 2015**

Paul Thornton  
Director

Gary Brady  
Managing Director

Thomas McKiverigan Maria Andrews  
Operations Facility Manager

G. Curran/D. Duff  
EHS Manager

Environmental Managers

Ciaran Dowling  
Facility Supervisor

David Duff will be the Environmental Manager for the site in 2016 with Grace Curran as Deputy.

## **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.

Thornton's Recycling website has a compliance section which customers can access, key environmental information such as waste collection permit details and waste licenses and facility permits 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 which are carried out by Certification Europe.

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 the Dunboyne facility and a copy is maintained onsite.

# Appendix 1

# Appendix 2

# Appendix 3

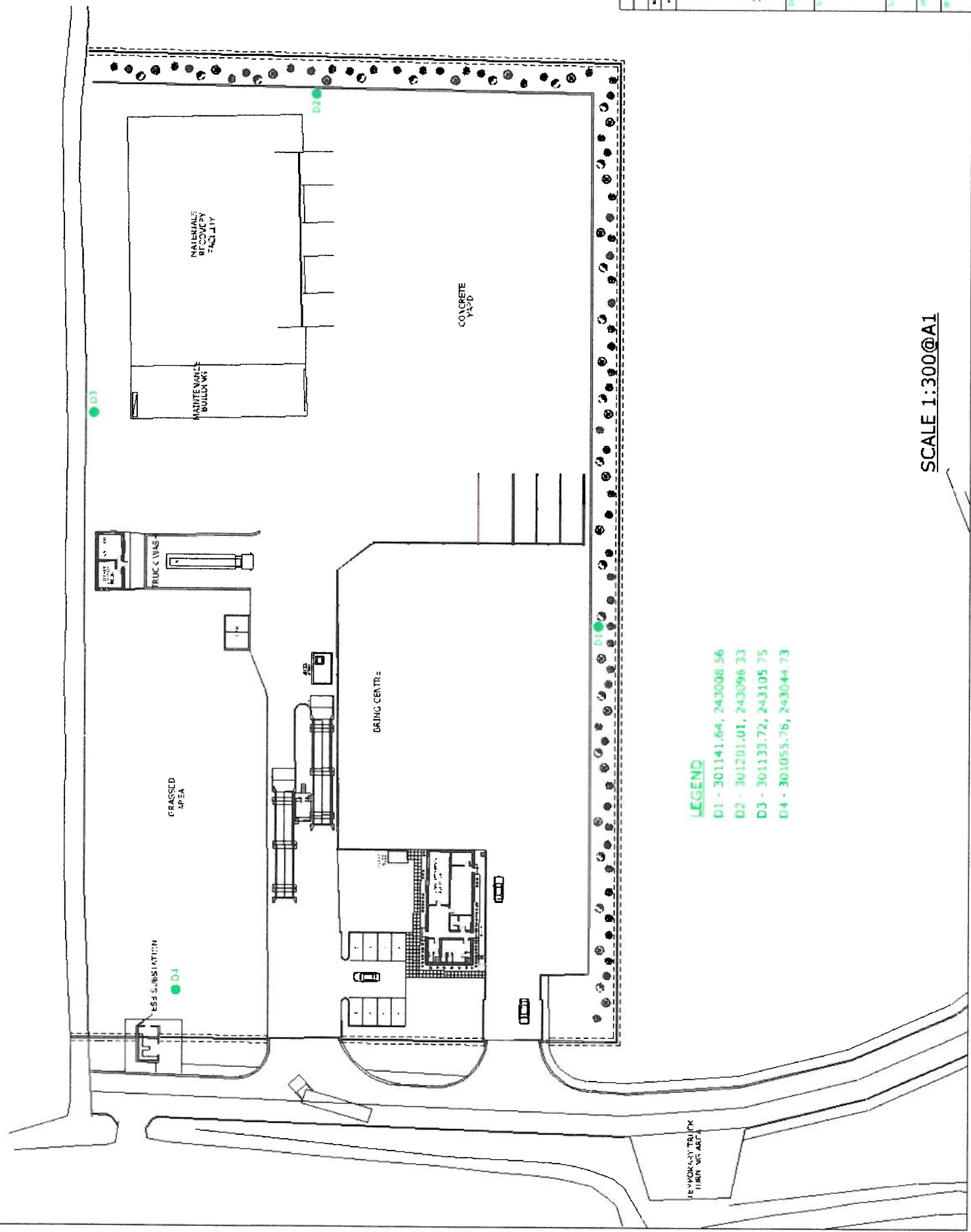
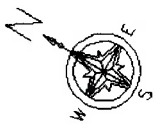
# Appendix 4

# Appendix 5



# **Appendix 1**

NOTES:



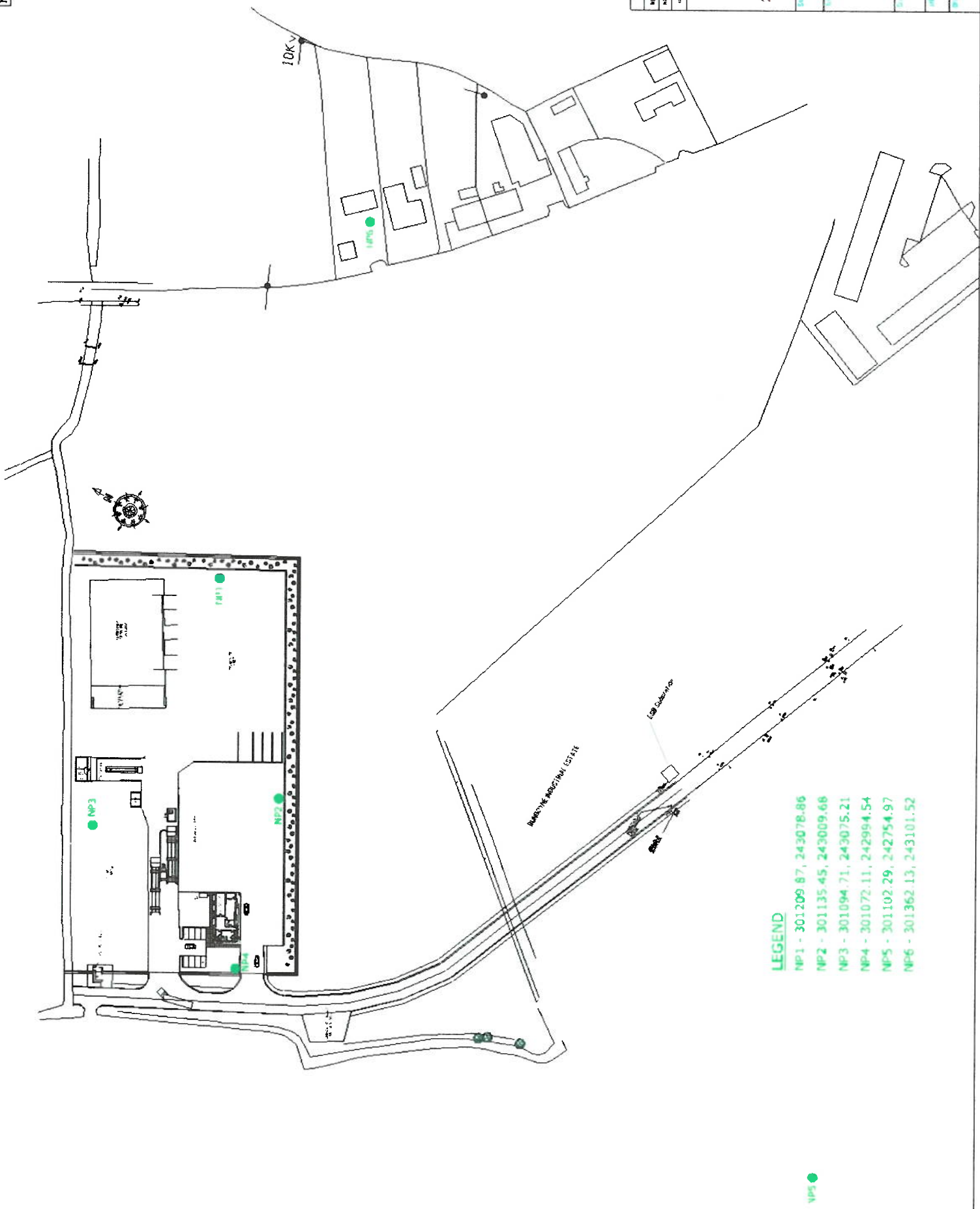
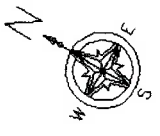
**LEGEND**

- D1 - 301141.64, 243008.56
- D2 - 301201.01, 243096.33
- D3 - 301133.72, 243105.75
- D4 - 301055.76, 243044.73

<p><b>THORNTONS RECYCLING</b>          KILLEN ROAD, DUBLIN 10          TEL: - 0285789 FAX: - 0285131          www.thorntons-recycling.ie</p>		
<p>AS BUILT</p>		
<p>SITE LAYOUT          DUMSBYNE RECYCLING CENTER          SHOWING DUST MONITORING POINT LOCATIONS</p>		
AS SHOWN	05/10/05	A1
09	7	PKC
01-7-22		

**SCALE 1:300@A1**

# **Appendix 2**



- LEGEND**
- MP1 - 301209.87, 243078.86
  - MP2 - 301135.45, 243009.66
  - MP3 - 301094.71, 243075.21
  - MP4 - 301072.11, 242994.54
  - MP5 - 301102.29, 242754.97
  - MP6 - 301362.13, 243101.52

MTS MP1-MP6	MP1	MP2	MP3	MP4	MP5	MP6
MTS MP1-MP6	MP1	MP2	MP3	MP4	MP5	MP6
MTS MP1-MP6	MP1	MP2	MP3	MP4	MP5	MP6

**THORNTONS RECYCLING**  
 KILLEN ROAD, DUBLIN 10  
 TEL: - 0285183 FAX: - 0286191  
 www.thorntons-recycling.ie

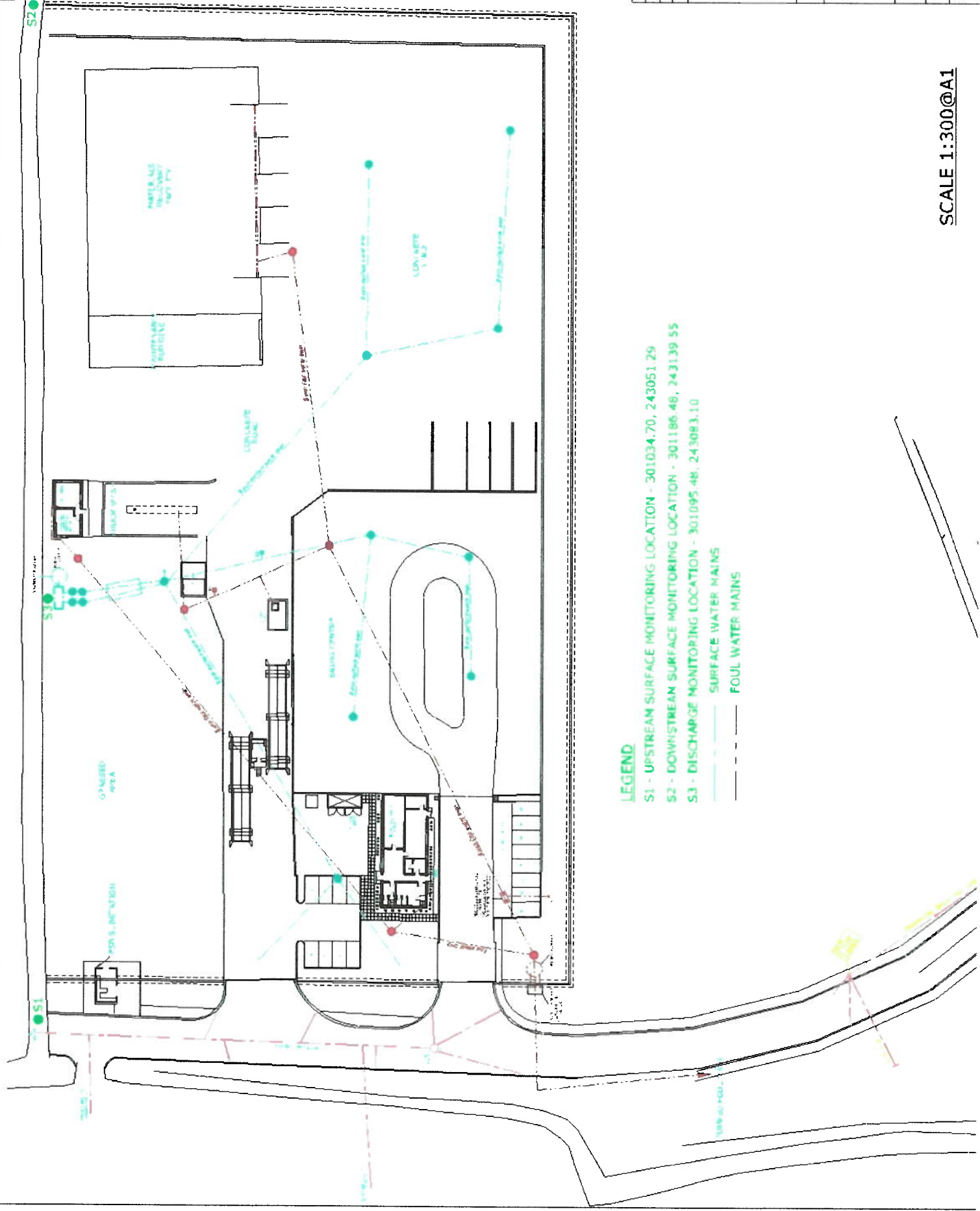
AS BUILT

SITE LAYOUT  
 DUMBRYNE RECYCLING CENTER  
 SHOWING NOISE MONITORING POINT LOCATIONS

Scale	05/06/05	AI
Drawn by	09	PKG
Checked by	03-7-24	2

# **Appendix 3**

NOTES:



**LEGEND**

- S1 - UPSTREAM SURFACE MONITORING LOCATION - 301034.70, 243051.29
- S2 - DOWNSTREAM SURFACE MONITORING LOCATION - 301186.48, 243139.55
- S3 - DISCHARGE MONITORING LOCATION - 301095.48, 243083.10
- SURFACE WATER MAINS
- FOUL WATER MAINS

DATE: 11/11/03		NO. OF SHEETS: 1	SHEET NO.:	
PROJECT:		NO. OF SHEETS:	SHEET NO.:	
DRAWN BY: J.M.C.		NO. OF SHEETS:	SHEET NO.:	
CHECKED BY: J.M.C.		NO. OF SHEETS:	SHEET NO.:	
DATE: 11/11/03		NO. OF SHEETS:	SHEET NO.:	

**THORNTONS**  
RECYCLING

**KILLEEN ROAD, DUBLIN 10**  
TEL: - 0285189 FAX: - 0236191  
WWW.thorntons-recycling.ie

AS BUILT

**SITE LAYOUT**  
DUNDEE RECYCLING CENTER  
SHOWING DISCHARGE DISCHARGE  
MONITORING POINT LOCATIONS

AS SHOWN	05/10/05	A1
03	7	PHC

01-7-23

SCALE 1:300@A1

# **Appendix 4**

EFB

**To Whom it May Concern**

**JLT Ireland**  
Friends First House  
Cherrywood Business Park  
Loughlinstown  
Dublin 18

Tel +353 1 2026000  
Email [jlt@jlt.ie](mailto:jlt@jlt.ie)

[www.jlt.ie](http://www.jlt.ie)

30 June 2015

**Confirmation of Insurance Cover**

**Our Client: Padraig Thornton Waste Disposal Ltd**

**We act as Insurance Brokers to the above client and confirm that the following insurance has been arranged on their behalf.**

Insurance Type : Combined Liability comprising Employers, Public and Products Liability

Period : 01 July 2015 to 30 June 2016

Business Description : Waste Collection, Recycling and Disposal including Electrical Waste and End of Life Vehicles, Composting, Maintenance of Own Vehicles and Contractor's Vehicles used on the business of the Insured, Bin Repair and Drain Cleaning, Sludge Dewatering, Pressure Jetting & CCTV Services, Industrial Cleaning, Hazardous Waste Cleaning, Removal & Disposal, Tank Cleaning, Hazardous & Non –Hazardous Waste, Septic Tank & Grease Tap Cleaning and Waste (Hazardous & Non- Hazardous) Removal & Disposal and Property Owners

Limit of Indemnity : €20,000,000 in respect of Employers Liability  
€13,000,000 in respect of Public/Products Liability

Insurers : QBE Syndicate 386, London

Policy Number : AA156568

Insurance Type : Motor Fleet

Period : 01 July 2015 to 30 June 2016

Limit of Indemnity : €6,400,000 – Third Party Property Damage

Insurers : QBE Europe Ltd

Policy Number : Y105938FLT0215A



# **Appendix 5**

## PM03- F01 Management Programme 2015

COMPLETED		ON HOLD CARRY FORWARD TO 2016				ON HOLD		
Ref Number	Date	Type	Objective and Target	Location	Responsibility	Method	Time Frame	Status
EP03	Jan-15	Environmental	Environmental Guidance File on X Drive to be reviewed and Completely updated	All Sites	Team	1. MK split folder between all staff to ensure all folders up to date 2. Circulate to head office when complete useful for tenders and customers 1. Site Tidy and mow lawns	May-15	Completed - DD completed sections assigned in April 2015. GC & MK completed Sections May 2015
EP 04	Jan-15	Environmental	Dunboyne Site environmental appearance to be improved in 2015 - grass areas, planting etc	Dunboyne	MK/GC		Jul-15	Completed In July 2015
EP 06	Jan-15	Environmental	Smarter Way of reporting Third Party tipping on. WIMS to be investigated	All Sites	SR/ MK	1. SR to review with WIMS and resend the data dump format in a spreadsheet that could be used. Liaise with DB	Dec-15	WIP - MK/SR to redesign reports. Templates discussed in May 2015. MK to meet with NF to discuss
EP 07	Jan-15	Environmental	Weighbridge Ticket - Investigate new design with new information	All Sites	SR	1. Get 4 samples of tickets from other companies 2. Get samples of tickets from other companies using WIMS/AMCS system 3. Team to make decision on look. SR to look at costs for changing 4. Look at Hauler Name and Registration option	Dec-15	WIP - SR/DD have designed new tickets, needs team approval. 4 x tickets as templates from other waste companies. MK/SR sent request for new reports and tickets to NF June 2015 WIMS working on putting data on new platform so will be at least Aug/Sept before requests looked at
EP 09	Jan-15	Environmental	Glass Domestic and Commercial Collections - Feasibility Study	All Sites	MK	1 Glass Feasibility on hold	Dec-15	On Hold by GB in Jan 2015 E-mail
EP 10	Jan-15	Environmental	CCTV Survey works to be completed on site as per report submitted to EPA Dec 2014	Dunboyne	MK	1- Organise through TTS	Mar-15	Completed - MK sent e-mail to MC/MR 27.01.15 re date for repair. Repairs completed 18.02.15 E-mail from MC and paperwork filed on site in Drainage file in Dunboyne
EP25	Sep-15	Environmental	Tidy up Environmental Legal Register to remove all irrelevant legislation	All Sites	GC	1. Review existing Legal Register & ascertain which legislation does not apply to Thomtons Recycling & remove 2. Re do register to simplify 3. insert section for revoked legislation	Dec-15	Carry over to 2016 to complete.

## PM03- F01 Management Programme 2016

COMPLETED		ON HOLD CARRY FORWARD TO 2016				ON HOLD
Ref Number	Date	Type	Objective and Target	Location	Responsibility	Status
EP 08	Jan-16	Environmental	Review of Environmental Legal Register file	All Sites	GC	Carry over from 2015
EP 09	Jan-16	Environmental	Review third party tipping recording template and create one template for all sites	All Sites	DD/GC/SC	
EP 11	Jan-16	Environmental	Liase with IWMA on C&D stone- end of waste criteria.	Killeen Road & Dunboyne	DD/GC	
EP 17	Sep-15	Environmental	Tidy up Environmental Legal Register to remove all irrelevant legislation	All Sites	GC	Carry over to 2016 to complete.

# **Appendix 6**



Environmental Protection Agency

| PRTR# : W0206 | Facility Name : Padraig Thornton Waste Disposal Ltd | Filename : W0206\_2015.xls | Return Year : 2015 |

[Guidance to completing the PRTR workbook](#)

# PRTR Returns Workbook

Version 1.1.19

<b>REFERENCE YEAR</b>	2015
-----------------------	------

## 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

### Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Dunboyne Industrial Estate
Address 2	Dunboyne
Address 3	
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
<b>AER Returns Contact Name</b>	Grace Curran
<b>AER Returns Contact Email Address</b>	grace@thorntons-recycling.ie
<b>AER Returns Contact Position</b>	Environmental Officer
<b>AER Returns Contact Telephone Number</b>	
<b>AER Returns Contact Mobile Phone Number</b>	0867911688
<b>AER Returns Contact Fax Number</b>	
<b>Production Volume</b>	50000.0
<b>Production Volume Units</b>	Tonnes
<b>Number of Installations</b>	1
<b>Number of Operating Hours in Year</b>	1624
<b>Number of Employees</b>	4
<b>User Feedback/Comments</b>	
<b>Web Address</b>	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) ?	
--	--

4.1 RELEASES TO AIR [Link to previous years emissions data](#)

PRTR# W0206 | Facility Name Padraig Thornton Waste Disposal Ltd | File Name W0206\_2015.xls | Return Year 2015 | 10/22/2016 15:20

**SECTION A - SECTOR SPECIFIC PRTR POLLUTANTS**

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

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

**SECTION B - REMAINING PRTR POLLUTANTS**

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

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

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

Pollutant No.	Name	METHOD Method Used		QUANTITY			
		M/C/E Method Code	Description or Description	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4
210	Dust	M	OTH 30 composite sample measured in mg/m <sup>2</sup> /day using standard method VDZ118	0.036043	0.063666	0.062587	0.040515
				0.203121			0.0

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

**Additional Data Requested from Landfill operators**

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

Total estimated methane generation (as per site model)	Methane flared	Methane utilised in engine/s	Net methane emission (as reported in Section A above)	Method Used		Facility Total Capacity m <sup>3</sup> per hour
				M/C/E Method Code	Description or Description	
	0.0	0.0	0.0			N/A
	0.0	0.0	0.0			(Total Flaring Capacity)
	0.0	0.0	0.0			(Total Utilising Capacity)

Padraig Thornton Waste Disposal Ltd

T (Total) kg/Year

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 (GMA) emission to the environment under (Total) KG/yr for Section A. Sector specific PRTR pollutants above. Please complete the table below

4.2 RELEASES TO WATERS [Link to previous years emissions data](#)

PRTR#: W0206 | Facility Name : Padraig Thornton Waste Disposal Ltd | Filename : W0206\_2015.xls | Return Year : 2015 |

10/02/2016 15:20

**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

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

**Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this on**

Please enter all quantities in this section in KGs

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

**SECTION B : REMAINING PRTR POLLUTANTS**

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

Please enter all quantities in this section in KGs

\* 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		RELEASES TO WATERS				QUANTITY		
Pollutant No.	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
						0.0	0.0	0.0

Please enter all quantities in this section in KGs

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



4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

1491149 - 402281 | Facility Name: Pathology Treatment Waste Disposal Ltd | Location: 402286 - 2015

10/02/2016 15:20

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER		METHOD USED		Please enter all quantities in this section in KGs				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	FW1 Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
79	Chlorides (as Cl)	M	PER	Standard method for examination of water and wastewater APHA20h Ed	285.1112	285.1112	0.0	0.0
13	Total phosphorus	M	PER	Standard method for examination of water and wastewater APHA20h Ed	13.06096	13.06096	0.0	0.0
76	Total organic carbon (TOC) (as total C or COD(3))	M	PER	Standard method for examination of water and wastewater APHA20h Ed	814.650833333	814.650833333	0.0	0.0
71	Phenols (as total C)	M	PER	Standard method for examination of water and wastewater APHA20h Ed	0.0447975	0.0447975	0.0	0.0

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

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

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER		METHOD USED		Please enter all quantities in this section in KGs				
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	FW1 Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
303	BOD	M	PER	Standard method for examination of water and wastewater APHA20h Ed	896.9455	896.9455	0.0	0.0
306	COD	M	PER	Standard method for examination of water and wastewater APHA20h Ed	2443.9525	2443.9525	0.0	0.0
240	Suspended Solids	M	PER	Standard method for examination of water and wastewater APHA20h Ed	2403.137	2403.137	0.0	0.0
236	Ammonia (as N)	M	PER	Standard method for examination of water and wastewater APHA20h Ed	27.57535	27.57535	0.0	0.0
324	Mineral oils	M	PER	Standard method for examination of water and wastewater APHA20h Ed	7.448331	7.448331	0.0	0.0
343	Sulphate	M	PER	Standard method for examination of water and wastewater APHA20h Ed	785.598825	785.598825	0.0	0.0
308	Detergents (as MBAS)	M	PER	Standard method for examination of water and wastewater APHA20h Ed	0.9855	0.9855	0.0	0.0
347	Total heavy metals	M	PER	Standard method for examination of water and wastewater APHA20h Ed	0.00552	0.00552	0.0	0.0

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

[Link to previous years emissions data](#)

| PRTR# : W0206 | Facility Name : Padraig Thornton Waste Disposal Ltd | Filename : W0206\_2015.xls | Return Year : 2015 |

10/02/2016 15:21

**4.4 RELEASES TO LAND**

**SECTION A : PRTR POLLUTANTS**

POLLUTANT		RELEASES TO LAND		METHOD		Please enter all quantities in this section in KGs		
No. Annex II	Name	M/C/E	Method Code	Method Used	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)**

POLLUTANT		RELEASES TO LAND		METHOD		Please enter all quantities in this section in KGs		
Pollutant No.	Name	M/C/E	Method Code	Method Used	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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz.Waste Name and Licence/Permit No of Next Destination Facility	Haz.Waste Name and Licence/Permit No of Recover/Disposer	Haz.Waste - Address of Next Destination Facility Non-Haz.Waste Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/CE	M/CE						
Within the Country	15 01 01	No	23.68	paper and cardboard packaging	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomtons Recycling MDR,WFP-DC-10-0021-02	Unit 51 Henry Road, Parkwest Business Park, Dublin, 12, Ireland	Unit 51 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	15 01 02	No	4.82	plastic packaging	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomtons Recycling MDR,WFP-DC-10-0021-02	Unit 51 Henry Road, Parkwest Business Park, Dublin, 12, Ireland	Unit 51 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	15 01 03	No	53.06	wooden packaging	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomtons Recycling Killeen Road, W0044-02	Road, Ballyfermot, Dublin, 10, Ireland	Road, Ballyfermot, Dublin, 10, Ireland		
Within the Country	15 01 03	No	942.15	wooden packaging	R3	M	Weighted	Offsite in Ireland	Thomtons Recycling Wood Chipping Facility, WFP-KE-10-0061-01	Oldmilltown, Kill, Co Kildare, Ireland	Oldmilltown, Kill, Co Kildare, Ireland		
Within the Country	15 01 04	No	5.56	metallic packaging	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomtons Recycling MDR,WFP-DC-10-0021-02	Road, Parkwest Business Park, Dublin, 12, Ireland	Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	15 01 05	No	0.88	composite packaging	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomtons Recycling MDR,WFP-DC-10-0021-01	Unit 51 Henry Road, Parkwest Business Park, Dublin, 12, Ireland	Unit 51 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	15 01 07	No	25.82	glass packaging other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12	R5	M	Weighted	Offsite in Ireland	Rehab Glassco Ltd, WFP-KE-06-0357-01	Rehab Glassco Ltd, WFP-KE-06-0357-01	Estate Naas, Co Kildare, Ireland		
Within the Country	19 12 12	No	984.47	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R5	M	Weighted	Offsite in Ireland	Bolden Tara Mines Ltd, P0516-03	Knockumber, Navan, Co Meath, Ireland	Meath, Meath, Ireland		
Within the Country	17 09 04	No	825.06	ferrous metal	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomtons Recycling Killeen Road, W0044-02	Road, Ballyfermot, Dublin, 10, Ireland	Road, Ballyfermot, Dublin, 10, Ireland		
Within the Country	19 12 02	No	218.18	ferrous metal	R4	M	Weighted	Offsite in Ireland	Hammond Lane, WFP-DC-09-0013-01	Pigeon House Road, Dublin, Ireland	Road, Ballyfermot, Dublin, 10, Ireland		
Within the Country	19 12 02	No	119.39	ferrous metal	R4	M	Weighted	Offsite in Ireland	Multimetals Recycling Ltd, WFP-WW-09-0014-01	Wicklow, Wicklow, Ireland	Wicklow, Wicklow, Ireland		
Within the Country	19 12 02	No	10.92	ferrous metal other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12	R13	M	Weighted	Offsite in Ireland	Recycling Killeen Road, W0044-02	Road, Ballyfermot, Dublin, 10, Ireland	Road, Ballyfermot, Dublin, 10, Ireland		
Within the Country	19 12 12	No	41.12	ferrous metal	R5	M	Weighted	Offsite in Ireland	Damian Fitzsimmons, WFP/MH/10/00 04/01	Harristown, Navan, Co. Meath, Ireland	Harristown, Navan, Co. Meath, Ireland		
Within the Country	19 12 10	No	680.68	combustible waste (refuse derived fuel)	R1	M	Weighted	Offsite in Ireland	Lagan Cement, P0487-05	Co. west meath, Ireland	Co. west meath, Ireland		
Within the Country	19 12 10	No	4684.74	combustible waste (refuse derived fuel)	R1	M	Weighted	Offsite in Ireland	Insh Cement, P000030-04	Louth, Ireland	Platin, Duleek, Drogheda, Co Louth, Ireland		
Within the Country	17 01 01	No	75.04	concrete other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12	R5	M	Weighted	Offsite in Ireland	Damian Fitzsimmons, WFP/MH/10/00 04/01	Harristown, Navan, Co. Meath, Ireland	Harristown, Navan, Co. Meath, Ireland		
Within the Country	19 12 12	No	5035.97	ferrous metal	R5	M	Weighted	Offsite in Ireland	Bord na Mona, Drenhid Landfill, W0201-03	Drenhid, Co. Kildare, Ireland	Drenhid, Co. Kildare, Ireland		

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz.Waste Name and Licence/Permit No of Next Destination Facility Non-Haz.Waste Name and Licence/Permit No of Recover/Disposer	Haz.Waste - Address of Next Destination Facility Non-Haz.Waste Address of Recover/Disposer	Name and License / Permit No and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recoverer / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	19 12 12	No	226.46	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R5	M	Weighted	Offsite in Ireland	Ballynagran Landfill, W0165-02	Ballynagran Landfill, Coolbeg and Kildare, Wicklow, Ireland		
Within the Country	19 12 12	No	9433.79	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R5	M	Weighted	Offsite in Ireland	Bord na Mona, Dreihid Landfill, W0201-03	Dreihid, Co. Kildare, Ireland		
Within the Country	17 05 04	No	3288.69	soil and stones other than those mentioned in 17 05 03	R5	M	Weighted	Offsite in Ireland	Fitzsimmons, WFP/MIH/10/00 Damian 04/01	Harristown, Navan, Co. Meath, Meath, Ireland		
Within the Country	20 01 10	No	3.84	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	Textile Recycling, Not Applicable	Greenogue Business Park, Saggart, Co Dublin ?, Ireland		
Within the Country	20 01 36	No	54.63	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 02 01	No	32.48	biodegradable waste	R3	M	Weighted	Offsite in Ireland	Enrich Environmental WFP/MIH-9-0004-01	Newtown, Rathganley, Killock, Co. Meath, Ireland		
Within the Country	19 12 07	No	1071.76	wood other than that mentioned in 19 12 06 R3	R3	M	Weighted	Offsite in Ireland	Thorntons Recycling Wood Chipping Facility, WFP-KE-10-0061-01	Oldmilltown, Kill, Co Kildare, Ireland		
Within the Country	20 03 01	No	798.12	mixed municipal waste	D5	M	Weighted	Offsite in Ireland	Bord na Mona, Dreihid Landfill, W0201-03	Dreihid, Co. Kildare, Ireland		
Within the Country	20 03 07	No	2057.86	bulky waste	R13	M	Weighted	Offsite in Ireland	Recycling, Killeen Road, W0044-02	Killeen Road, Ballyfermot, Dublin, 10, Ireland		
Within the Country	20 02 01	No	110.64	biodegradable waste discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components	R3	M	Weighted	Offsite in Ireland	Barrockstown Farm Limited, WFP/MIH/14/0007/0 2	Barrockstown, Maynooth, Co Meath, Ireland		
Within the Country	20 01 35	Yes	12.03	discarded equipment containing chlorofluorocarbons, HCFC, HFC	R4	M	Weighted	Offsite in Ireland	ERP Contract, ERP Contract	ERP Contract, Ireland	ERP Contract - Not disclosed, Ireland	ERP Contract, Ireland
Within the Country	16 02 11	Yes	27.006	discarded equipment containing chlorofluorocarbons, HCFC, HFC	R4	M	Weighted	Offsite in Ireland	ERP Contract, ERP Contract	ERP Contract, Ireland	ERP Contract - Not disclosed, Ireland	ERP Contract, Ireland
Within the Country	20 03 01	No	16.06	Mixed Dry Recycling	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomtons Recycling, MDR, WFP-DC-10-0021-02	Unit 51 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	20 01 39	No	10.26	plastics	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomtons Recycling, Killeen Road, Ballyfermot, Dublin, 10, Ireland	Killeen Road, Ballyfermot, Dublin, 10, Ireland		
Within the Country	20 01 39	No	2.44	plastics	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomtons Recycling, MDR, WFP-DC-10-0021-02	Unit 51 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	20 01 01	No	30.02	paper and cardboard	R13	M	Weighted	Offsite in Ireland	Recycling, MDR, WFP-DC-10-0021-02	Unit 51 Henry Road, Parkwest Business Park, Dublin, 12, Ireland		
Within the Country	16 06 04	No	0.71	alkaline batteries (except 16 06 03)	R4	M	Weighted	Offsite in Ireland	KMK Metals Recycling Ltd, W0113-03	Capppincur Industrial Estate, Daingean Road, Tullamore, Co Offaly, Ireland		

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz. Waste Name and Licence/Permit No of Next Destination Facility Non-Haz. Waste Name and Licence/Permit No of Recover/Disposer	Haz. Waste Address of Next Destination Facility Non-Haz. Waste Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Depositor (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recoverer / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	16 06 01	Yes	2.74	lead batteries batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	R4	M	Weighted	Offsite in Ireland	KMK Metals Recycling Ltd, W0113-03	Daingean Road, Tuilamore, Co Offaly, Ireland	KMK Metals - Final destination not disclosed, Ireland	....., Ireland
Within the Country	20 01 33	Yes	0.16	these batteries	R4	M	Weighted	Offsite in Ireland	KMK Metals Recycling Ltd, W0113-03	Daingean Road, Tuilamore, Co Offaly, Ireland	KMK Metals - Final destination not disclosed, Ireland	....., Ireland
Within the Country	20 01 21	Yes	0.34	fluorescent tubes and other mercury-containing waste	R4	M	Weighted	Offsite in Ireland	KMK Metals Recycling Ltd, W0113-03	Daingean Road, Tuilamore, Co Offaly, Ireland	KMK Metals - Final destination not disclosed, Ireland	....., Ireland
Within the Country	19 12 10	No	1375.04	combustible waste (refuse derived fuel)	R1	M	Weighted	Offsite in Ireland	Quinn Cement Ltd, P0378-02	Cavan, Ireland	KMK Metals - Final destination not disclosed, Ireland	....., Ireland
Within the Country	19 12 10	No	318.48	combustible waste (refuse derived fuel)	R1	M	Weighted	Offsite in Ireland	Greyhound Recycling and Recovery Ltd, W0205-01	Industrial Estate, Clonsilla, County Dublin, Ireland	Recycling, D32006/1080/RGP ED/2006/Z/AP-PJ, Rue du Parc Industriel, 4480 Englis, Belgium	....., Belgium
Within the Country	20 01 27	Yes	1.5	paint, inks, adhesives and resins containing dangerous substances	D15	M	Weighted	Offsite in Ireland	Sterile Technologies Ireland Ltd, W0055-01	12, Ireland	Recycling, Killeen Road, Ballyfermot, Dublin, 10, Ireland	....., Belgium
Within the Country	19 12 07	No	10.18	wood other than that mentioned in 19 12 06	R13	M	Weighted	Offsite in Ireland	PTWDL T/A Thomtons Recycling, Killeen Road, W0044-02	12, Ireland	Recycling, Killeen Road, Ballyfermot, Dublin, 10, Ireland	....., Belgium

\* Select a row by double-clicking the Description of Waste menu, click the Update button.