

**Kerry County Council**



**Waste Licence Ref No. W0069-01**

**REPORT TITLE**

**Milltown Transfer Station  
Annual Environmental Report**

**Reporting Period:**

**January – December 2014**

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## **1.0 Introduction**

Kerry County Council operates a waste transfer and recycling facility at Ballyvirrane, Milltown, Co. Kerry. It is located approximately 2 km south of the town of Milltown.

The principal activity of the Transfer Station is the compaction of solid waste into 30 cubic meter closed containers for subsequent transfer and disposal at North Kerry Landfill.

Other activities include the recycling or reclamation of inorganic materials including metals, glass, steel and aluminium cans, car batteries, dry cell batteries, fluorescent tubes, domestic hazardous waste, cardboard, plastic bottles and newspapers.

This Annual Environment Report is prepared in accordance with Condition 2.8 and Schedule C of Waste Licence W0069-01 issued by the Environmental Protection Agency (EPA).

## **2.0 Reporting Period**

The reporting period for this Annual Environmental Report is 1<sup>st</sup> January– 31<sup>st</sup> December 2014.

## **3.0 Waste Activities Carried out at the Facility**

Waste disposal activities carried out at Milltown Transfer Station are in accordance with Part 1 of Waste Licence W0069-01 which outlines the waste disposal activities licensed in accordance with the Third Schedule of the Waste Management Act 1996. Licensed activities include:

- Class 12** Repackaging prior to submission to any activity referred to in a preceding paragraph of this 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.

Waste recovery activities carried out at Milltown Transfer Station are in accordance with Part 1 of Waste Licence W0069-01 which outlines the waste recovery activities licensed in accordance with the Fourth Schedule of the Waste Management Act 1996. Licensed activities include:

- Class 1** Solvent reclamation or regeneration.
- Class 2** Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
- Class 3** Recycling or reclamation of metals and metal compounds.
- Class 4** Recycling or reclamation of other inorganic materials.
- 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.

#### 4.0 Quantity and Composition of Waste Received, Disposed and Recovered: 1<sup>st</sup> Jan – 31<sup>st</sup> Dec 2014

Waste tonnage disposed at Milltown Transfer Station during the reporting year (2014) increased by 11% on the previous year (2013). This is increase of 156.92 tonnes is primarily due closure of North Kerry Landfill in July 2014 and customers moving their business to Milltown Waste Transfer. The weight of the waste accepted into Milltown Transfer Station Facility for disposal for the reporting period was 1,531.96 tonnes. This comprises of the following breakdown:

Waste Source	EWC	2012	2013	2014
Public Household	20 03 01	1,237.7	1,138.20	1,211.83
Commercial	20 03 01	120.58	109.18	112.92
Local Authority Refuse Collection	20 03 01	3.82	0	0
Road Sweeping/ Flytipping/Graveyard Waste	20 03 03 20 02 03	125.60	129.58	207.21
<b>Total</b>	<b>tonnes</b>	<b>1,487.70</b>	<b>1,376.96</b>	<b>1,531.96</b>

**Table 1 Waste Source breakdown for reporting Period.**

The quantity of waste sent for recycling in 2014 was 692.847 tonnes this is an increase of 35 tonnes on 2013 figure. Waste sent for recycling during the reporting period compared with previous years is outlined in Table 2.

Waste for Recycling & Recovery	EWC	2012	2013	2014
Food Waste	20 01 08	4.76	6.98	4.54
Metals	20 01 40	48.12	49.52	54.94
Steel Cans	15 01 04	8.89	12.45	12.405
Glass	15 01 07	74.71	92.62	90.429
Aluminium	15 01 04	2.57	3.66	3.425
Batteries	20 01 34	1.2	2.22	2.649
Newspapers and Magazines	20 01 01	152.5	162.3	177.14
Cardboard	15 01 01	94.22	102.88	110.69
Fluorescent Tubes	20 01 21	0.82	1.12	0.64
Plastic Bottles	15 01 02	42.72	53.16	66.06
WEEE	Various	95.77	118.23	118.084
Mixed Packaging	15 01 06	46.64	52.16	49.04
Cooking Oil	20 01 25	0.11	0.17	0
Textiles	20 01 11	0.84	1.64	0
<b>Total for Recycling/Recovery</b>	<b>tonnes</b>	<b>573.87</b>	<b>657.98</b>	<b>692.847</b>

**Table 2 Waste collected on site and recovered/recycled off site during the reporting period**

Appendix I contains: the breakdown of waste by source which is repackaged for disposal off site during the reporting period

## **5.0 Projections of the quantities to be accepted and percentages disposed and recycled/ recovered for the coming year**

It is expected that waste disposal rates at Milltown Transfer Station will remain unchanged for the next reporting period. However, the WEEE tonnage for 2015 should decrease with the change in the manner in which WEEE is collected from shops. The proposed Household Waste Regulations due to come into effect in July 2015 we estimate that this will have an impact on the total waste being disposed at this facility however, we are awaiting clarification from the Department of the Environment in relation to this in order assess the impact of this on our services.

## **6.0 Summary Report on Emissions for the Reporting Period**

### **a) Foul Water Emissions**

The foul water is discharged via a Puraflow Wastewater Treatment Unit and is monitored quarterly. The results are sent to the EPA via six monthly reports and are also available at the Milltown facility and Environmental Services Office.

Cleaning out and a service of the wastewater treatment system was carried out in March 2014. 17.88 tonnes of sludge and foul water was removed from the system. The sump pump was refurbished in February 2015. Further maintenance is planned for Q3 2015.

### **b) Surface Water Emissions**

Surface water runoff takes place from site roads and uncontaminated surfaces discharges via silt traps to the surface water drains.

Surface water and foul water emission results are attached in Appendix II.

## **7.0 Summary of Results and Interpretations of Environmental Monitoring**

### **a) Dust monitoring**

The dust monitoring results for the reporting period are attached in Appendix III. Dust samples were within the allowable dust deposition limits as per Schedule G of Waste Licence W0069. No complaints were received in relation to dust at the facility.

<b>Licence Ref</b>	<b>Site Ref</b>	<b>Total Particles mg/m<sup>2</sup>/day</b>	<b>Inorganic Particles mg/m<sup>2</sup>/day</b>	<b>Licensed Limit mg/m<sup>2</sup>/day</b>
B1	Station 1	233	195	350
B2	Station 2	55	45	350
SW2	Station 3	222	36	350

**Table 3 Dust Monitoring Results Milltown Waste Transfer Station 2013.**

It is Kerry County Council's intension to seek a technical amendment in 2015, in relation to the dust monitoring requirement of Waste Licence W0069 as past monitoring indicates that the site it not causing excessive dust to the surrounding environs.

**b) Noise monitoring**

Consultant Engineers Malachy Walsh and Partners carried out noise monitoring at Milltown Waste Transfer Station. The noise survey, was carried out in accordance with EPA NG4 was undertaken on the 05/01/2015. Noise levels recorded at Noise Sensitive Locations are determined to be below emission limit values. The site is therefore compliant as regard noise levels. Table 4 provides summary of noise. Completed Noise Monitoring report is attached in Appendix IV.

It is Kerry County Council's intension to seek a technical amendment in relation to the noise monitoring requirement of Waste Licence W0069 as past monitoring indicates that the site it not causing excessive noise to the surrounding environs.

**c) Monitoring of surface water**

The surface water monitoring results are attached in Appendix II.

**d) Foul Water**

The foul water emission monitoring results are attached in Appendix II.

**e) Bund and Tank Integrity Test**

No bund and tank testing was carried out in 2014, Kerry County Council is committed to carrying out this in 2015 and the result of same will be forwarded to the Agency for its consideration.

**Table 4 Daytime Noise Monitoring Results Milltown Waste Transfer Station 2014.**

Location	Date and Time	L <sub>Aeq</sub> dB	L <sub>A10</sub> dB	L <sub>A90</sub> dB	Tones Hz	Description of Noise Sources
B1 (old site entrance)	15:20 – 15:50	56	55	35	No	Traffic on the local road was the main noise source at this location. This included facility and non facility traffic. The tipping shed motor also contributed intermittently as it was faintly audible as was activity at the bottle bank. Overhead aircraft also contributed.
	15:55 – 16:25	56	56	33		
	16:26 – 16:56	58	57	40		
B2 (at entrance to facility)	14:18-14:48	60	62	45	No	Main noise sources included cars entering and exiting the facility and passing on the local road, the tipping shed motor and customers using the facility. Other noise sources included the cardboard compactor, birdsong and the radio from the weighbridge office. A WEEE collection truck was also loading.
	14:48-15:18	63	59	44		
	15:18-15:48	57	59	43		
B3 (boundary location)	14:07-14:37	55	56	40	No	Main noise sources included cars entering and exiting the facility and passing on the local road, the tipping shed motor and customers using the facility. Other noise sources included the cardboard compactor, birdsong and a JCB working.
	14:37-15:07	53	54	40		
	15:07-15:37	53	54	41		
B4( nearest dwelling south of facility)	10:42 – 11:12	55	55	41	No	Noise from the waste transfer station was not audible at this location. Traffic passing on the local road was the main contributing noise source at this location.
	11:12 – 11:42	55	57	39		
	11:42 – 12:12	54	54	34		
B5 (nearest dwelling north of facility)	10:57-11:27	51	55	41	No	Noise from the waste transfer station was not audible at this location. Traffic passing on the local road was the main contributing noise source at this location. Noise from within the farmyard also contributed.
	11:27-11:57	49	54	34		
	11:57-12:27	44	48	35		



## **8.0 Resource and Energy Consumption Summary**

The following is the resource and energy consumption for Milltown Transfer Station for the reporting period.

### **8.1 Diesel**

The diesel usage for Milltown Transfer Station for the reporting period 2014 was 1,334 litres. This is reduction of 34 litres which is primarily due to reduced activity on site. The primary usage of diesel is for the excavator on site.

### **8.2 Electricity**

Electricity usage on site has increased by 4kWh/day – this due to increase in cardboard being accepted and baled on site however, the electricity usage on site in general has reduced significantly since 2009.

<b>Year</b>	<b>Average Electricity Usage kWh/day</b>
<b>2014</b>	30
<b>2013</b>	26
<b>2012</b>	25
<b>2011</b>	31
<b>2010</b>	38
<b>2009</b>	42

**Table 5 Average Electricity Usage 2009 – 2013 kWh/day**

The primary energy consumer on site is a 3 phase waste compactor. Power is also required for the office computer and lighting, storage heating, cardboard baler and public lighting on the site.

### **8.3 Water**

Water supply to the site is via a connection to the mains water supply. Water usage for the facility during the reporting period was 24 m<sup>3</sup>; this is the same as 2013 usage. Water is used on site for power washing yards, the transfer station apron and hopper. No surface water or ground water is abstracted for use on site.

## **9.0 Report on Development Works Undertaken during the Reporting Period**

No development works were undertaken at the facility during the reporting period.

## **10.0 Proposed Development Works for the Forthcoming Year**

The proposed Household Waste regulations will have an impact on the operation and site layout of the Milltown Waste Transfer Station, once the regulations are published, it is Kerry County Council's intension to assess the impact of these regulations and adapt the site where necessary to meet the new requirements. The Agency shall be informed of any changes to the site layout etc.

## **11.0 Environmental Management System**

There is an Environmental Management System on site. This document is due for renewal however, this revised document is not being released until sight of the proposed Household Waste Regulations has been seen and their impact on the EMS has been assessed.

**12.0 Report Targets and Environmental Objectives and Targets for 2015.**

<b>Target Area</b>	<b>2015 - Objective</b>	<b>2015 – Expected Outcome to Indicate achievement of target</b>
Odour Management	Continue to ensure that the waste facility does not cause a nuisance in terms of odour through good housekeeping practices on site	No odour complaints received due to onsite odour.
		No odour complaints received due to off site odour
Waste Storage Practices	Ensure good housekeeping on site to ensure that waste is stored corrected and collected in a timely fashion so not to cause nuisance to the surrounding areas and on site	No wind blown litter on site No overflowing bins on site Proper segregation of waste
Incident Prevention	Look at Fire Preventative and Emergency Response Procedure for the site	Revised procedures to be put in place mindful of EPA guidance document
Infrastructure integrity and drainage	Carry out integrity testing on site	Integrity testing carried out on site
Waste acceptance, Classification and records	Continue to record and document all waste types entering and leaving the site with monthly verifiable reports being produced	Monthly reports on waste streams produced and verified
Proposed Household Waste Regulations	Look at the proposed household waste regulations and implement the same on site in a timely manner	Draft Household Regs. implemented on site.

### **13.0 Summary of Procedures Developed by the Licensee**

The following procedures were developed during the reporting period:

- ❖ Revised Operational Procedures for Facility Operator
- ❖ Revised Health & Safety Procedures

### **14.0 Reported Incidents and Complaints**

No incidences or complaints were reported in relation to the operation of the facility during the reporting period.

## 15.0 Report on Financial Provision

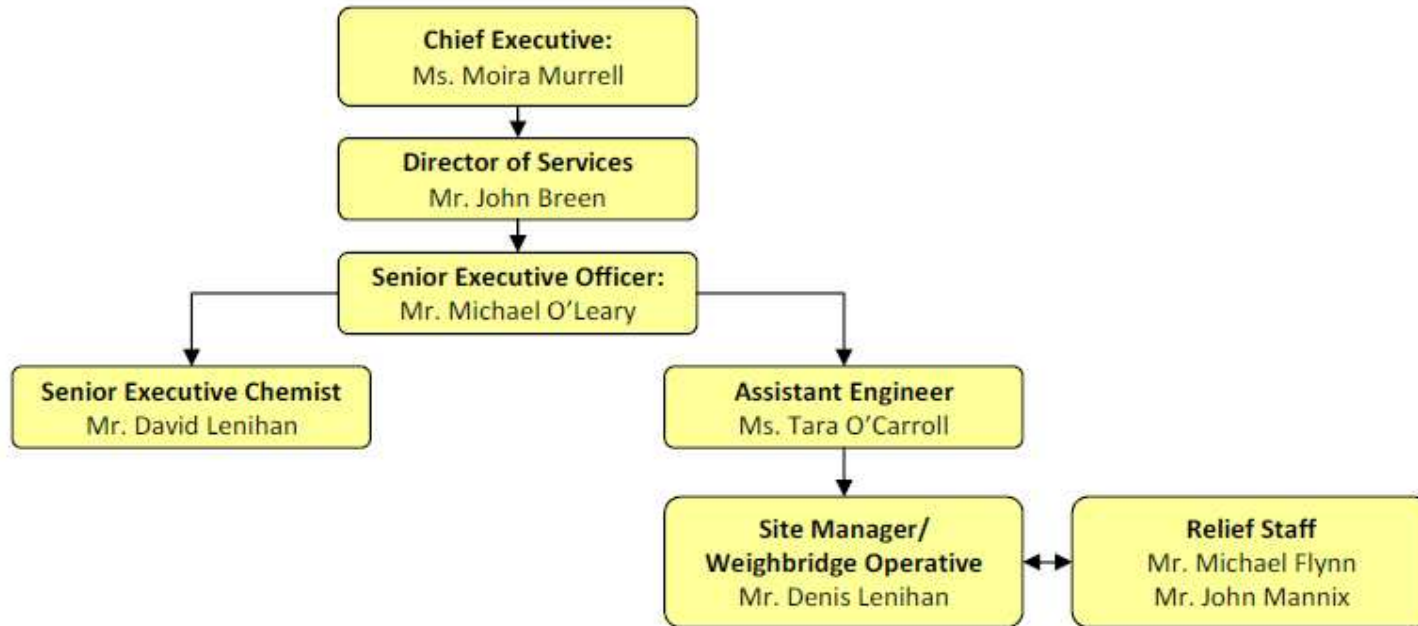
### a) Statement of Costs for Waste Operations at Facility

<i>Accelem</i>	<i>Accelem (T)</i>	<i>Total Charge Euro</i>
60030	Wages	€ 30,014.07
60040	Salaries	€ 5,052.14
60100	ER PRSI	€ 6,250.57
60200	Overtime	€ 20,635.05
60400	Sick Pay	€ 134.15
60500	Annual Leave	€ 2,574.00
60510	Bank Holiday Leave	€ 885.39
60600	Travel/Subsistence	€ 3,487.82
61990	Other Allowances	€ 1,474.58
65500	Minor Contracts- Trade Services & other works	€ 64,364.22
66500	Non-Capital Equip Purchase - Fire Services	€ 128.00
68500	Non-Capital Equip Purchase - Other	€ 57.52
69000	Hire (Ext) - Plant/Transport/Machinery & Equipment	€ 337.50
69200	Repairs & Maint - Plant	€ 52.33
69260	Repairs & Maint - Other Equip	€ 10.35
69400	Transfers from Machinery Yard	€ 1,961.00
69600	Other Vehicle Expenses	€ 102.00
70000	Materials	€ 1,209.11
70990	Issues from Stores	€ 1,736.57
71000	Insurance	€ 441.61
73400	Staff Travelling & Subsistence Expenses	€ 859.65
76000	Communication Expenses	€ 315.46
77100	Courier	€ 11.99
79900	Consultancy/Professional Fees and Expenses	€ 880.00
80000	Advertising	€ 42.00
81000	Printing & Office Consumables	€ 134.77
82100	Statutory Contributions to Other Bodies	€ 5,725.00
85100	Rates & Other LA Charges	€ 63.49
86000	Energy	€ 1,636.61
	<b>Total</b>	<b>€ 150,576.95</b>

**b) Statement of Costs for Recycling Operations at Facility**

<i>Accelem</i>	<i>Accelem (T)</i>	<i>Total Charge Euro</i>
60030	Wages	€ 9,333.20
60040	Salaries	€ 5,052.14
60100	ER PRSI	€ 2,606.29
60200	Overtime	€ 5,682.44
60500	Annual Leave	€ 2,723.27
60510	Bank Holiday Leave	€ 591.98
60600	Travel/Subsistence	€ 1,114.62
61990	Other Allowances	€ 488.54
65500	Minor Contracts- Trade Services & other wor	€ 6,877.23
66500	Non-Capital Equip Purchase - Fire Services	€ 18.00
69260	Repairs & Maint - Other Equip	€ 10.35
69400	Transfers from Machinery Yard	€ 220.00
70000	Materials	€ 1,050.44
70990	Issues from Stores	€ 271.15
73400	Staff Travelling & Subsistence Expenses	€ 975.60
76000	Communication Expenses	€ 305.10
77100	Courier	€ 5.10
80000	Advertising	€ 42.00
81000	Printing & Office Consumables	€ 13.00
82100	Statutory Contributions to Other Bodies	€ 5,724.56
85100	Rates & Other LA Charges	€ 63.51
86000	Energy	€ 735.22
	<b>Total</b>	<b>€ 43,903.74</b>

16.0 Management and Staffing Structure at the Facility December 2014



## **17.0 Programme of Public Information**

The following files are available for inspection by members of the public:

- ❖ AER of previous reporting years
- ❖ All correspondence with the Agency
- ❖ Surface Water Monitoring Results
- ❖ Incident/Complaints Register
- ❖ Tonnage of waste accepted on site
- ❖ Characterisation of waste accepted on site
- ❖ Operational Procedure Manual
- ❖ Waste Acceptance Procedure
- ❖ Information on Recycling Initiatives e.g. leaflets.
- ❖ Environmental Management System.



Appendix I - Waste Collected at Milltown Transfer Station for Landfill during reporting period

Milltown Transfer Station Residual Waste - Tonnage Period 01/01/14 to 31/12/2014

								Non Levied Waste							Total of Waste Over Weighbridge Excluding Ticket Waste	Total Waste Out of TS	No.Loads Out of TS	Waste In @ NKL	No. Loads Into NKL	Variance	Average Variance per Load
	KTC Refuse	Public Car Household	* Non weighed waste inclusive of tickets	A/C Holders (VAT Inclusive)	A/C Holders (VAT Exempt)	KCC Internal Depts	Total Levied Waste	KCC Road Sweeping	KTC Road Sweeping	Graveyard Waste	KCC Clean Ups / F'tipping Charged	Clean Ups / F'tipping Not Charged	Total Non-levied								
January 2014	0	55.76	56.44	5.00	2.14	0	119.34	5.6	0	0	0.12	2.72	8.44	71.34	127.34	9	127.78	9	0.44	0.05	
January 2013	0	50.54	33.84	2.66	2.3	0.68	90.02	5.4	0	0	0.22	1.52	7.14	63.32	97.12	7	97.16	7	0.04	0.01	
February 2014	0	43.12	29.72	4.6	4.84	0	82.28	3.52	0	0	0	2.98	6.5	59.06	88.44	6	88.78	6	0.34	0.06	
February 2013	0	45.54	50.84	5.2	4.08	1.94	107.60	4.04	0	0	1.96	0.16	6.16	62.92	113.4	8	113.76	8	0.36	0.04	
March 2014	0	46.86	45.64	4.1	3.5	3.66	103.76	4.46	0	0	0.54	5.38	10.38	68.5	113.84	8	114.14	8	0.3	0.04	
March 2013	0	48.26	36.8	4.04	2.42	0	91.52	4.06	0	0	0.06	1.14	5.26	59.98	96.5	7	96.78	7	0.28	0.04	
April 2014	0	57.18	47.20	6.56	3.68	2.12	116.74	3.46	0.00	0.00	0.00	8.04	11.5	81.04	128.00	10	128.24	10	0.24	0.02	
April 2013	0	45.38	41.94	5.26	5.88	0.00	98.46	5.04	0.00	0.00	0.18	5.54	10.76	67.28	108.9	8	109.22	8	0.32	0.04	
May 2014	0	56.62	55.33	4.42	3.98	0.00	120.35	4.26	0.00	0.00	1.04	5.35	10.65	75.67	130.92	10	131.00	10	0.08	0.01	
May 2013	0.00	53.26	57.66	6.62	2.62	0.52	120.68	3.98	0.00	0.00	0.00	2.48	6.46	69.48	126.64	9	127.14	9	0.5	0.06	
June 2014	0.00	48.34	46.58	6.74	2.92	0.00	104.58	4.00	0.00	0.00	8.26	3.12	15.38	73.38	119.66	9	119.96	9	0.3	0.03	
June 2013	0.00	55.70	34.64	4.74	5.32	0.44	100.84	4.74	0.00	0.00	6.50	3.42	14.66	80.86	115.1	8	115.5	8	0.4	0.05	
1st - 11th July 2014	0.00	20.62	25.76	2.88	1.34	0.00	50.60	0.78	0.00	0.00	2.10	1.02	3.9	28.74	54.28	4	54.5	4	0.22	0.05	
12th - 31st July 2014	0.00	39.46	8.32	4.32	1.22	0.00	53.32	2.98	0.00	0.00	5.58	2.00	10.56	55.56	63.88	5	0.00	0.00	0.00	0.00	
<b>Total July 2014</b>	<b>0.00</b>	<b>60.08</b>	<b>34.08</b>	<b>7.20</b>	<b>2.56</b>	<b>0.00</b>	<b>103.92</b>	<b>3.76</b>	<b>0.00</b>	<b>0.00</b>	<b>7.68</b>	<b>3.02</b>	<b>14.46</b>	<b>84.30</b>	<b>118.16</b>	<b>9</b>	<b>54.50</b>	<b>4</b>	<b>0.22</b>	<b>0.05</b>	
July 2013	0.00	52.44	52.98	9.14	3.04	0.00	117.60	2.96	0.00	0.00	9.14	1.14	13.24	77.86	130.62	9	130.84	9	0.22	0.02	
August 2014	0.00	53.84	63.86	10.48	6.30	0.12	134.60	23.70	0.00	0.00	19.58	3.94	47.22	117.96	181.82	14					
August 2013	0.00	54.26	51.18	9.20	3.20	0.42	118.26	23.06	0.00	0.00	10.82	1.16	35.04	102.12	152.88	11	153.3	11	0.42	0.04	
September 2014	0.00	42.64	66.90	5.22	1.82	0.52	117.10	4.18	0.00	0.00	5.72	5.40	15.30	65.50	132.40	10					
September 2013	0.00	39.70	53.94	5.76	2.74	0.14	102.28	3.40	0.00	0.00	4.22	0.80	8.42	56.76	110.4	8	110.7	8	0.3	0.04	
October 2014	0.00	51.78	41.74	4.18	4.84	0.28	102.82	3.28	0.00	0.00	7.36	4.38	15.02	76.10	117.84	9					
October 2013	0.00	44.00	50.74	5.36	2.06	0.56	102.72	3.50	0.00	0.00	1.12	2.12	6.74	58.72	109.3	8	109.46	8	0.16	0.02	
November 2014	0.00	51.36	55.86	3.32	0.90	0.24	111.68	2.70	0.00	0.00	8.34	5.12	16.16	71.98	127.84	10					
November 2013	0.00	50.34	35.88	3.72	1.18	0.28	91.40	3.86	0.00	0.00	0.10	2.54	6.50	62.02	97.5	7	97.9	7	0.4	0.06	
December 2014	0.00	46.28	54.62	4.36	2.08	0.24	107.58	2.96	0.00	0.18	29.48	3.58	36.20	89.16	143.78	11					
December 2013	0.00	47.704	50.636	4.04	3.62	0.00	106.00	3.80	0.00	0.00	0.06	5.34	9.20	64.564	114.76	8	115.2	8	0.44	0.05	
<b>Total Tonnage 2014</b>	<b>0.00</b>	<b>613.86</b>	<b>597.97</b>	<b>66.18</b>	<b>39.56</b>	<b>7.18</b>	<b>1324.75</b>	<b>65.88</b>	<b>0.00</b>	<b>0.18</b>	<b>88.12</b>	<b>53.03</b>	<b>207.21</b>	<b>933.99</b>	<b>1530.04</b>	<b>115</b>	<b>764.40</b>	<b>56</b>	<b>1.92</b>		
<b>Total Tonnage 2013</b>	<b>0.00</b>	<b>587.124</b>	<b>551.076</b>	<b>65.74</b>	<b>38.46</b>	<b>4.98</b>	<b>1247.38</b>	<b>67.84</b>	<b>0.00</b>	<b>0.00</b>	<b>34.38</b>	<b>27.36</b>	<b>129.58</b>	<b>825.88</b>	<b>1373.12</b>	<b>98</b>	<b>1376.96</b>	<b>98</b>	<b>3.84</b>		

Household Waste Deposited at Milltown Civic Amenity Sites in 2014

Material type	Suggested EWC codes	Jan	Feb	Mar	Apr	May	June	July	August	September	October	November	December	Total
<b>Mixed residual waste (Trans waste out of facility)</b>	<b>20 03 01</b>	127.78	88.78	114.14	128.24	131.00	119.96	118.38	181.82	132.40	117.84	127.84	143.78	1,531.96
<i>Organic waste (food and garden)</i>														0.00
<i>food (compost waste Milltown TS)</i>	<i>20 01 08</i>	0.88	0.66	0.54	0.50	0.26	0.28	0.66	0.42	0.34		0.00		4.54
<i>garden</i>	<i>20 02 01</i>													0.00
<b>Mixed dry recyclables (Ecosence Bags)</b>	<b>15 01 06</b>	0.00	9.90	0.00	7.58	0.00	7.18	5.18	0.00	5.96	0.00	7.48	5.76	49.04
<i>Cardboard, newspaper and other paper</i>														0.00
<i>cardboard packaging</i>	<i>15 01 01</i>		13.950		19.760			31.760	13.180	6.22	11.06	6.94	7.82	110.69
<i>cardboard non-packaging</i>	<i>20 01 01</i>													0.00
<i>paper packaging</i>	<i>15 01 03</i>													0.00
<i>paper non-packaging</i>	<i>20 01 01</i>													0.00
<i>newspaper and magazines</i>	<i>20 01 23</i>	16.20	13.84	12.36	12.24	15.88	13.98	17.98	14.66	12.66	16.66	14.22	16.46	177.14
<i>Glass</i>														0.00
<i>glass packaging (bottles)</i>	<i>15 01 07</i>	11.0140	6.0430	13.8290	1.3850	7.3860	7.8790	7.8050	10.0260	5.5920	8.4770	6.3530	4.6400	90.4290
<i>glass non-packaging (flat glass)</i>	<i>20 01 02</i>													0.0000
<i>Metals</i>														0.0000
<i>aluminium cans (packaging)</i>	<i>15 01 04</i>	0.4000	0.2690	0.2850	0.0530	0.3400	0.2940	0.3130	0.3360	0.2850	0.3470	0.2340	0.2690	3.4250
<i>steel cans (packaging)</i>	<i>15 01 04</i>	1.2010	1.0100	0.8120	0.2680	1.1090	1.0100	1.1620	1.6290	1.0700	1.3590	0.9900	0.7850	12.4050
<i>other metals (scrap metals)</i>	<i>20 01 40</i>	4.10	2.46	3.38	3.40	9.72	4.08	7.94	3.86	6.86	2.76	4.84	1.54	54.94
<i>Plastic</i>														0.00
<i>plastic packaging (bottles)</i>	<i>15 01 02</i>	6.28	4.38	4.48	4.40	6.00	5.64	6.98	5.72	5.08	5.98	5.22	5.90	66.06
<i>plastic non-packaging</i>	<i>20 01 39</i>													0.00
<i>polystyrene</i>														0.00
<b>Composite packaging (e.g. tetrapaks)</b>	<b>15 01 05</b>													0.00
<i>Textiles</i>														0.00
<i>textiles, packaging</i>	<i>15 01 09</i>													0.00
<i>textiles, non-packaging (clothes)</i>	<i>20 01 11</i>		0.36						0.64					1.00
<i>Wood</i>														0.00
<i>wood packaging</i>	<i>15 01 03</i>													0.00
<i>wood non-packaging</i>	<i>20 01 38</i>													0.00
<i>mixed, uncontaminated wood packaging and non-packaging (collected at An Daingean)</i>	<i>15 01 03; 20 01 38</i>													0.00
<i>wood, treated, hazardous</i>	<i>20 01 37*</i>													0.00
<b>Batteries</b>														0.00
<i>lead acid batteries and accumulators (Car Batteries)</i>	<i>16 06 01*</i>													0.00
<i>Ni-Cd batteries and accumulators</i>	<i>16 06 02*</i>	0.405	0.000	0.530	0.000	0.491	0.000	0.000	0.626	0.000	0.000	0.597	0.000	2.649
<i>Other (e.g. alkaline) batteries and accumulators (Small Batteries)</i>	<i>16 06 04</i>													0.00
<b>Household Hazardous Waste</b>														0.00
<i>Waste mineral oils (Engine Oil)</i>	<i>13 02 08</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.335	0.00	0.00	0.00	0.47	1.81
<i>Oil filters (vehicles)</i>	<i>13 08 99</i>													0.00
<i>Oil containers (mineral oil) - plastic + metal</i>	<i>13 08 99</i>													0.00
<i>Waste cooking or vegetable oils</i>	<i>20 01 25</i>													0.00
<i>Waste paint and varnish (including containers)</i>	<i>20 01 27</i>													0.00
<i>Aerosols</i>	<i>14 06 01</i>													0.00
<b>WEEE collected by compliance schemes</b>														0.00
<b>CRT</b>	<b>20 01 35</b>	3.555	3.013	1.993	3.544	2.395	2.983	3.247	0.995	5.237	1.741	3.587	2.637	34.927
<b>SDA - Small Domestic Appliances</b>	<b>20 01 35</b>	2.811	2.575	2.437	3.125	2.911	3.605	3.257	3.039	4.768	2.054	4.166	8.596	43.344
<b>LDA - Large Domestic Appliances</b>	<b>16 02 14</b>	3.539	0.000	2.175	0.000	4.403	3.896	0.000	0.000	6.668	1.552	3.480	0.000	25.713
<b>Cold</b>	<b>16 02 11</b>	1.523	0.000	1.107	0.000	1.948	3.044	0.000	0.000	2.619	1.784	2.075	0.000	14.100
<b>KCC Dry Recyclable Collection (KCC Trucks Into TS)</b>	<b>20 03 01</b>													0.00
<b>Foul Water from Septic Tanks</b>	<b>19 07 03</b>	0.00	0.00	17.88										17.88
<b>Fluorescent Tubes</b>	<b>20 01 21</b>	0.133			0.107			0.112					0.288	0.640
<other categories not included above>	<enter EWC code>													0.00

## Appendix II - Results of Quarterly Foul and Surface Water Monitoring

### Quarterly Surface Water Monitoring Results SW2:

								Parameter	Ammonium	pH	BOD (5day)	Conductivity	Chemical C	Chloride	Dissolved C	Suspended	Temperature	Faecal coli	Total Colif	Appearance	Odour
									NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem	FC marine			Physchem
								Max.	Varies	Varies	--	Varies	--	Varies	Varies	--	--	1	1	--	--
								Target	--	--	--	--	--	--	--	--	--	--	--	--	--
								Min.	--	Varies	--	--	--	--	Varies	--	--	--	--	--	--
Project	Location	Location E	Location N	Sample Re	Sample Date	Sample Tir	Sample Me	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C	no./100mls	no./100mls	Descriptive	Descriptive
Milltown	Sw2	83053.4	98786	2014/0338	29-Jan-14	10:58	Grab		0.02	6.1	1.3	165	22	31.9	7.7	38	7.3	< 10	331		
Milltown	Sw2	83053.4	98786	2014/1298	01-Apr-14	11:50	Grab	No Water at Location													

								Analysis	003_ODOUR	005A_TEMP_FIE	006_PH	007A_CONDUCT	013C_BOD	014_COD	022K_AMMONIA	028K_CHLORID	036_DO_MG_L	037_SUSPENDE	082_VIS_INSPE	
								Parameter	Odour	Temperature	pH	Conductivity	B.O.D.	C.O.D.	Ammonia	Chloride	Dissolved Oxygen	Suspended Solids	Visual Inspection	
								Reported Name												
								Min. Value			6.0				0.0					
								Max Value			9.0				0.0					
								Units	NONE	DEG_C	PH	USCM	BOD	MGL	MGLN	MGL	MGL	MGL	NONE	
Project	SAMPLING POINT	Sampling Point	Sample No.	Sampled Date	Sampled Time															
Milltown	MILLTOWN_SW2	Milltown Sw2	2014/4511	05-Nov-14	9:55			Normal	9.8	5.9	156	2.0	30	0.08	23.7	5.1	3		clear with floating bits of sediment	

### Quarterly Surface Water Monitoring Results SW3a:

								Parameter	Ammonium	pH	BOD (5day)	Conductivity	Chemical C	Chloride	Dissolved C	Suspended	Temperature	Faecal coli	Total Colif	Appearance	Odour
									NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem	FC marine			Physchem
								Max.	Varies	Varies	--	Varies	--	Varies	Varies	--	--	1	1	--	--
								Target	--	--	--	--	--	--	--	--	--	--	--	--	--
								Min.	--	Varies	--	--	--	--	Varies	--	--	--	--	--	
Project	Location	Location E	Location N	Sample Re	Sample Date	Sample Tir	Sample Me	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C	no./100mls	no./100mls	Descriptive	Descriptive
Milltown	Sw3a	83087	98733	2014/0339	29-Jan-14	10:51	Grab		0.05	6.3	2.7	214	56	42.6	4	4	7.9	379	2489		
Milltown	Sw3a	83087	98733	2014/1299	01-Apr-14	11:44	Grab		0.02	6.3	2.6	195	19	30	6.2	6	10.7			Clear	N/D

								Analysis	003_ODOUR	005A_TEMP_FIE	006_PH	007A_CONDUCT	013C_BOD	014_COD	022K_AMMONIA	028K_CHLORID	036_DO_MG_L	037_SUSPENDE	082_VIS_INSPE	
								Parameter	Odour	Temperature	pH	Conductivity	B.O.D.	C.O.D.	Ammonia	Chloride	Dissolved Oxygen	Suspended Solids	Visual Inspection	
								Reported Name												
								Min. Value			6.0				0.0					
								Max Value			9.0				0.0					
								Units	NONE	DEG_C	PH	USCM	BOD	MGL	MGLN	MGL	MGL	MGL	NONE	
Project	SAMPLING POINT	Sampling Point	Sample No.	Sampled Date	Sampled Time															
Milltown	MILLTOWN_SW3A	Milltown Sw3a	2014/2952	23-Jul-14	15:45			Normal	18.8	6.5	172	24	185	0.64	20.2	3.1	74		Sediment present	
		Milltown Sw3a	2014/4512	05-Nov-14	10:20			Not Detected	11.4	6.4	198	1.6	37	0.14	28.7	4.9	13		clear with floating bits of sediment	

Quarterly Surface Water Monitoring Results SW3c:

Parameter	Ammonium pH		BOD (5day	Conductiv	Chemical C	Chloride	Dissolved (	Suspendec	Temperatu	Faecal coli	Total Colifc	Appearance	Odour								
	NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem	FC marine			Physchem								
Max.	Varies	Varies	--	Varies	--	Varies	Varies	--	--	1	1	--	--								
Target	--	--	--	--	--	--	--	--	--	--	--	--	--								
Min.	--	Varies	--	--	--	--	Varies	--	--	--	--	--	--								
Project	Location	Location E	Location N	Sample Re	Sample Date	Sample Tir	Sample Me	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C	no./100mls	no./100mls	Descriptive	Descriptive
Milltown	Sw3c	83098.1	98785.1	2014/0340	29-Jan-14	11:12	Grab		0.03	6.6	< 1	240	20	44.8	3.3	4	7.9	448	3255		
Milltown	Sw3c	83098.1	98785.1	2014/1300	01-Apr-14	11:59	Grab		0.16	6.3	< 1	215	19	30.9	3.7	2	10.3			Clear	N/D

Analysis	003_ODOUR	005A_TEMP_FIE LD	006_PH	007A_CONDUCTIVITY20C	013C_BOD	014_COD	022K_AMMONIA	028K_CHLORID E	036_DO_MG_L	037_SUSPENDE D SOLIDS	082_VIS_INSPE CTION								
Parameter	Odour	Temperature	pH	Conductivity	B.O.D.	C.O.D.	Ammonia	Chloride	Dissolved Oxygen	Suspended Solids	Visual Inspection								
Reported Name																			
Min. Value			6.0				0.0												
Max Value			9.0				0.0												
Units	NONE	DEG_C	PH	USCM	BOD	MGL	MGLN	MGL	MGL	MGL	NONE								
Project	SAMPLING POINT	Sampling Point	Sample No.	Sampled Date	Sampled Time														
Milltown	MILLTOWN_SW 3C	Milltown Sw3c	2014/4513	05-Nov-14	10:35		Not Detected	11.4	6.6	238	<1.0	43	0.18	31.2	3.1	4			clear with floating bits of sediment

Quarterly Surface Water Monitoring Results SW4b:

Parameter	Ammonium pH		BOD (5day	Conductiv	Chemical C	Chloride	Dissolved (	Suspendec	Temperatu	Faecal coli	Total Colifc	Appearance	Odour								
	NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem	FC marine			Physchem								
Max.	Varies	Varies	--	Varies	--	Varies	Varies	--	--	1	1	--	--								
Target	--	--	--	--	--	--	--	--	--	--	--	--	--								
Min.	--	Varies	--	--	--	--	Varies	--	--	--	--	--	--								
Project	Location	Location E	Location N	Sample Re	Sample Date	Sample Tir	Sample Me	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C	no./100mls	no./100mls	Descriptive	Descriptive
Milltown	Sw4b	83116	98869	2014/0341	29-Jan-14	11:22	Grab		< 0.02	7	< 1	230	21	43.2	7.7	1	7.9	86	798		
Milltown	Sw4b	83116	98869	2014/1301	01-Apr-14	12:08	Grab		0.04	6.5	< 1	215	18	32	4.8	2	10.5			Clear	N/D

Analysis	003_ODOUR	005A_TEMP_FIE LD	006_PH	007A_CONDUCTIVITY20C	013C_BOD	014_COD	022K_AMMONIA	028K_CHLORID E	036_DO_MG_L	037_SUSPENDE D SOLIDS	082_VIS_INSPE CTION								
Parameter	Odour	Temperature	pH	Conductivity	B.O.D.	C.O.D.	Ammonia	Chloride	Dissolved Oxygen	Suspended Solids	Visual Inspection								
Reported Name																			
Min. Value			6.0				0.0												
Max Value			9.0				0.0												
Units	NONE	DEG_C	PH	USCM	BOD	MGL	MGLN	MGL	MGL	MGL	NONE								
Project	SAMPLING POINT	Sampling Point	Sample No.	Sampled Date	Sampled Time														
Milltown	MILLTOWN_SW 4B	Milltown Sw4b	2014/2954	23-Jul-14	16:20		Normal	17.5	6.8	228	2.4	38	0.46	26.0	4.1	19			Sediment present
		Milltown Sw4b	2014/4514	05-Nov-14	10:45		Not Detected	11.1	6.6	238	<1.0	44	0.02	31.1	6.2	3			clear

Pollutant Load Investigation SW8 and upstream of SW8:

Project	Location	Location E	Location N	Sample Re	Sample Date	Sample Tir	Sample Me	Comments	Ammonium	pH	BOD (5day	Conductiv	Chemical C	Chloride	Dissolved	Suspendec	Temperatu	Faecal coli	Total Colifc	Appearanc	Odour
									NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem	FC marine			Physchem
									Varies	Varies	--	Varies	--	Varies	Varies	--	--	1	1	--	--
									--	--	--	--	--	--	--	--	--	--	--	--	--
									--	Varies	--	--	--	--	Varies	--	--	--	--	--	--
mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	Degrees C	no./100mls	no./100mls	Descriptive	Descriptive										
Milltown	u/s SW8	83089.5	98605.2	2014/0342	29-Jan-14	12:02	Grab		9.4	7	1.6	463	29	57.3	< 2	21	8.1	< 10	1597		
Milltown	u/s SW8	83089.5	98605.2	2014/1302	01-Apr-14	11:20	Grab	Not Flowing	41.12	7.1	9.9	1009	63	74.1	3	92	9.6			Iron Oxide	Metallic
Milltown	Sw8	83033	98594.6	2014/0344	29-Jan-14	11:55	Grab	Sample taken D/S of Manhole.	23.47	7.4	1.7	766	53	76	5.5	65	7.8	< 10	1467		
Milltown	Sw8	83033	98594.6	2014/0343	29-Jan-14	11:45	Grab	Sample taken from Manhole.	41.18	7.2	1.5	984	49	66.6	4.9	27	7.8	< 10	331		
Milltown	Sw8	83033	98594.6	2014/1303	01-Apr-14	11:10	Grab	manhole	113.88	7	12.2	1310	60	78.9	1.5	48	9.3			Iron Oxide	Metallic

Project	SAMPLING POINT	Sampling Point	Sample No.	Sampled Date	Sampled Time	Analysis	003_ODOUR	005A_TEMP_FIE LD	006_PH	007A_CONDUCTIVITY20C	013C_BOD	014_COD	022K_AMMONIA	028K_CHLORID F	036_DO_MG_L	037_SUSPENDE D SOLIDS	082_VIS_INSPE CTION
						Parameter	Odour	Temperature	pH	Conductivity	B.O.D.	C.O.D.	Ammonia	Chloride	Dissolved Oxygen	Suspended Solids	Visual Inspection
						Reported Name											
						Min. Value			6.0				0.0				
						Max Value			9.0				0.0				
						Units	NONE	DEG_C	PH	USCM	BOD	MGL	MGL/N	MGL	MGL	MGL	NONE
Milltown	MILLTOWN_SW 8	Milltown Sw8	2014/2956	23-Jul-14	16:08		Normal	17.9	7.2	1346	8.7	44	57.88	74.0	2.4	6	Clear
		Milltown Sw8	2014/4516	05-Nov-14	11:15		Metallic	11.8	6.8	738	Sample Overdiluted	55	11.35	53.4	1.6	32	sl. cloudy
	MILLTOWN_US_SW8	Milltown us SW8	2014/2955	23-Jul-14	16:00		Normal	18.0	7.3	876	>19	71	29.42	58.8	3.4	106	Sediment present
		Milltown us SW8	2014/4515	05-Nov-14	10:55		Metallic	10.8	7.1	624	5.5	56	11.10	48.9	5.3	32	sl. cloudy with small bits of sediment

Quarterly Foul Water Emission Monitoring Results Fe1:

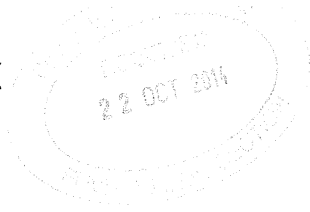
Parameter	Ammonium	pH	BOD (5day)	Conductivity	Chemical C	Dissolved C	Suspended	Temperature	Appearance	Odour	Oils/Fats & Grease							
	NH4	Physchem	O2	Physchem	O2	O2	Physchem	Physchem		Physchem	OFG							
Max.	Varies	Varies	--	Varies	--	Varies	--	--	--	--	--							
Target	--	--	--	--	--	--	--	--	--	--	--							
Min.	--	Varies	--	--	--	Varies	--	--	--	--	--							
Project	Location	Location E	Location N	Sample Re	Sample Da	Sample Tir	Sample Me	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	Degrees C	Descriptive	Descriptive	mg/l
Milltown	Fe1	83066.4	98728	2014/0345	29-Jan-14	10:45	Grab	Foul Water.	2.17	6.6	8.5	345	41	6	7.6	Clear	N/D	3.2
Milltown	Fe1	83066.4	98728	2014/1304	01-Apr-14	11:37	Grab		3.87	6.8	3.8	276	23	2	9.8	Clear	Leachate	

Product	Project	SAMPLING POINT	Sample No.	Sampled Date	Sample Type	Sample Status	Analysis	003_ODOUR	005A_TEMP_FIE LD	006_PH	007A_CONDUCTIVITY20C	013C_BOD	014_COD	022K_AMMONIA	027_FOG	037_SUSPENDED SOLIDS	082_VIS_INSPECTION
							Parameter	Odour	Temperature	pH	Conductivity	B.O.D.	C.O.D.	Ammonia	Total OFG	Suspended Solids	Visual Inspection
							Reported Name										
							Min. Value										
							Max Value										
							Units	NONE	DEG_C	PH	USCM	BOD	MGL	MGLN	MGL	MGL	NONE
WAST_WATER	Milltown	MILLTOWN_FE1	2014/2957	23-Jul-14	LANDFILL	Authorised		Normal	18.5	6.9	376	14	39	6.96	<1	10	Clear
			2014/4517	05-Nov-14	LANDFILL	Authorised		Strong decaying veg	10.9	6.8	301	Sample Overdiluted	39	4.57	<1	10	clear

**Appendix III – Results of Dust Monitoring**



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**ANALYSIS REPORT**

<b>CUSTOMER:</b>	<b>KERRY COUNTY COUNCIL</b>	<b>SAMPLE TYPE:</b>	<b>DUST</b>
<b>ADDRESS:</b>	Environment Section, Main Street, Tralee, County Kerry	<b>CONDITION OF SAMPLE ON RECEIPT:</b>	Satisfactory
<b>REPORT TO:</b>	<b>TARA MC CARTHY</b>	<b>DATE SAMPLED:</b>	15 August – 15 September 2014
<b>SAMPLED BY:</b>	John Mannix, Kerry County Council	<b>DATE RECEIVED:</b>	29 September 2014
<b>SAMPLING PT:</b>	<b>MILLTOWN TRANSFER STATION</b>	<b>DATE ANALYSED:</b>	08 – 10 October 2014
<b>ORDER NO:</b>		<b>DATE REPORTED:</b>	14 October 2014
		<b>WORK NO.:</b>	31340 C   12P-101

**TABLE OF RESULTS**

METHOD:	LAB REF:	YOUR REF:	TOTAL PARTICULATES mg/m <sup>3</sup> /day	INORGANIC PARTICULATES mg/m <sup>3</sup> /day
SCP 039	C14-Sep 671	Station 1	233	195
SCP 039	C14-Sep 672	Station 2	55	45
SCP 039	C14-Sep 673	Station 3	222	36

*Jennifer Keane*  
Jennifer Keane  
Chemistry Laboratory Manager

- The results relate only to the items tested.
- The analysis report shall not be reproduced except in full without written approval of the laboratory.

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registered in ireland no 323196 | vat reg no IE 6343196 M



**Noise Survey 2014**  
Milltown Waste Transfer Station





ISSUE FORM	
Project number	16490
Document number	6005
Document revision	A
Document title	Noise Survey
Document status	Draft
Document prepared by	Peter Barry
Document checked by	MR (MWP) / 2015-02-16

## 1 INTRODUCTION

Kerry County Council operates a waste transfer station in Ballyvirrane, near Milltown. The facility operates within the conditions set out in the waster licence register number W0069-1. Under the terms of this licence the facility is required to carry out an annual environmental noise survey. The results of this survey are described below.

## 2 METHODOLOGY

### 2.1 MONITORING PERIODS

The survey was carried out in accordance with the EPA guidance document, EPA guidance note 4- Guidance Note for Noise: Licence Applications, Surveys and Assessments in relation to Scheduled Activities. In accordance with the guidance note the noise surveys were carried out over three monitoring periods during the normal daytime operating times. Monitoring was undertaken for 30 minutes at each location. Noise monitoring was undertaken by Peter Barry (AMIOA) of Malachy Walsh and Partners on the 5<sup>th</sup> January 2015.

### 2.2 MONITORING LOCATIONS

Monitoring was undertaken at B1, B2, B3, B4 and B5). The locations are shown on Figure 1.

Figure1: NOISE MONITORING LOCATIONS



### 2.2.1 Photographs of Noise Monitoring Locations

<p><b>Location B1</b></p> 	<p><b>Location B2</b></p> 
<p><b>Location B3</b></p> 	<p><b>Location B4</b></p> 
<p><b>Location B5</b></p> 	

### 2.3 SURVEY EQUIPMENT

The measurements were made using a Bruel & Kjaer type 2250 Light and a Larson Davis 820 Logging integrating Sound Level Meter. These are Type 1 instruments in accordance with IEC 651 regulations. The Time Weighting used was Fast and the Frequency Weighting was A-weighted as per IEC 651. The sound level meters (SLM) were mounted on a tripod at 1.5m above ground level and at least 2m away from any sound reflecting objects. A windshield was placed on the microphone to reduce any wind interference during measurements.

Factory calibration certificates for the noise level meter and acoustic calibrator, detailing equipment serial numbers, calibration traceability and re-calibration dates are attached as Appendix A.

## 2.4 MEASUREMENT PARAMETERS

In order to be able to interpret the noise levels correctly several parameters were measured. These include the;

- $L_{Aeq}$  Time-averaged A weighted noise level.
- $L_{A90}$  Noise level exceeded for 90 % of measurement period (steady underlying noise level).
- $L_{A10}$  Noise level exceeded for 10 % of measurement period.

Factory calibration certificates for the noise level meter and acoustic calibrator, detailing equipment serial numbers, calibration traceability and re-calibration dates are attached as Appendix A.

## 2.5 METEOROLOGICAL CONDITIONS

Meteorological conditions were noted as dry, cold with light winds generally not exceeding 5 meters per second ( $ms^{-1}$ ). It is recommended that outdoor noise monitoring is not undertaken in adverse weather conditions as the wind or rain can elevate the readings. Ideally there should be no rain and wind speeds should generally not exceed  $5 ms^{-1}$ .

### 3 RESULTS

Table 1. Noise Monitoring Results

Location	Date and Time	L <sub>Aeq</sub> dB	L <sub>A10</sub> dB	L <sub>A90</sub> dB	Tones Hz	Description of Noise Sources
B1 (old site entrance)	15:20 – 15:50	56	55	35	No	Traffic on the local road was the main noise source at this location. This included facility and non facility traffic. The tipping shed motor also contributed intermittently as it was faintly audible as was activity at the bottle bank. Overhead aircraft also contributed.
	15:55 – 16:25	56	56	33		
	16:26 – 16:56	58	57	40		
B2 (at entrance to facility)	14:18-14:48	60	62	45	No	Main noise sources included cars entering and exiting the facility and passing on the local road, the tipping shed motor and customers using the facility. Other noise sources included the cardboard compactor, birdsong and the radio from the weighbridge office. A WEEE collection truck was also loading.
	14:48-15:18	63	59	44		
	15:18-15:48	57	59	43		
B3 (boundary location)	14:07-14:37	55	56	40	No	Main noise sources included cars entering and exiting the facility and passing on the local road, the tipping shed motor and customers using the facility. Other noise sources included the cardboard compactor, birdsong and a JCB working.
	14:37-15:07	53	54	40		
	15:07-15:37	53	54	41		
B4( nearest dwelling south of facility)	10:42 – 11:12	55	55	41	No	Noise from the waste transfer station was not audible at this location. Traffic passing on the local road was the main contributing noise source at this location.
	11:12 – 11:42	55	57	39		
	11:42 – 12:12	54	54	34		
B5 (nearest dwelling north of facility)	10:57-11:27	51	55	41	No	Noise from the waste transfer station was not audible at this location. Traffic passing on the local road was the main contributing noise source at this location. Noise from within the farmyard also contributed.
	11:27-11:57	49	54	34		
	11:57-12:27	44	48	35		

#### 4 CONCLUSION

At all locations the most influential noise source was cars passing on the local Castlemaine road. The waste transfer station was not audible at either of the nearest noise sensitive locations (dwellings) during this survey. The  $L_{A90}$  or measured background noise level can be considered a truer reflection of the noise environment in the absence of traffic and ranged between 33 dB and 45 dB. Based on observations noted during the surveys and an analysis of the results it is determined that the Milltown Waste Transfer Station is not causing a noise nuisance to neighbours and operates within the noise limits set out in the waste licence.

No clearly audible tones were noted at any location. At the boundary locations there were occasional impact noises from waste material being dropped into skips and bins, however this impulsive noise would not cause disturbance or annoyance at any off site location and does not warrant a penalty.

Milltown Waste Transfer Station is operating within the waste licence noise emission criteria.

## Appendix 1

### Calibration Certificates



# Certificate of Calibration and Conformance

Certificate Number 2014-189699

Instrument Model PRM828, Serial Number 2952, was calibrated on 16 Apr 2014. The instrument meets factory specifications per Procedure D0001.8135.

**New Instrument**  
**Date Calibrated: 16 Apr 2014**  
**Calibration due:**

## Calibration Standards Used

MANUFACTURER	MODEL	SERIAL NUMBER	INTERVAL	CAL DUE	TRACEABILITY NO.
Agilent Technologies	34401A	MY41044529	12 Months	4 Feb 2015	6396720
Larson Davis	LDSigGn/2209	0277 / 0109	12 Months	12 Mar 2015	2014-187802

Reference Standards are traceable to the National Institute of Standards and Technology (NIST)

## Calibration Environmental Conditions

Temperature: 23 ° Centigrade

Relative Humidity: 50 %

## Affirmations

This Certificate attests that this instrument has been calibrated under the stated conditions with Measurement and Test Equipment (M&TE) Standards traceable to the U.S. National Institute of Standards and Technology (NIST). All of the Measurement Standards have been calibrated to their manufacturers' specified accuracy / uncertainty. Evidence of traceability and accuracy is on file at Provo Engineering & Manufacturing Center. An acceptable accuracy ratio between the Standard(s) and the item calibrated has been maintained. This instrument meets or exceeds the manufacturer's published specification unless noted.

The collective uncertainty of the Measurement Standard used does not exceed 25% of the applicable tolerance for each characteristic calibrated unless otherwise noted.

The results documented in this certificate relate only to the Item(s) calibrated or tested. A one year calibration is recommended, however calibration interval assignment and adjustment are the responsibility of the end user. This certificate may not be reproduced, except in full, without the written approval of the issuer.

Signed:   
Technician: Ron Harris

Page 1 of 1

Provo Engineering and Manufacturing Center, 1681 West 820 North, Provo, Utah 84601  
Toll Free: 888.258.3222 Telephone: 716.926.8243 Fax: 716.926.8215  
ISO 9001-2008 Certified





# Certificate of Calibration and Conformance

Certificate Number 2014-189710

Instrument Model 820, Serial Number 1915, was calibrated on 16 Apr 2014. The instrument meets factory specifications per Procedure D0001.8160, ANSI S1.4 1983, IEC 651-Type 1 1979, and IEC 804-Type 1 1985.

**New Instrument**  
**Date Calibrated: 16 Apr 2014**  
**Calibration due:**

## Calibration Standards Used

MANUFACTURER	MODEL	SERIAL NUMBER	INTERVAL	CAL. DUE	TRACEABILITY NO.
Larson Davis	LDSigGn/2209	0277 / 0109	12 Months	12 Mar 2015	2014-187602

Reference Standards are traceable to the National Institute of Standards and Technology (NIST)

## Calibration Environmental Conditions

Temperature: 23 ° Centigrade

Relative Humidity: 50 %


## Affirmations

This Certificate attests that this instrument has been calibrated under the stated conditions with Measurement and Test Equipment (M&TE) Standards traceable to the U.S. National Institute of Standards and Technology (NIST). All of the Measurement Standards have been calibrated to their manufacturers' specified accuracy / uncertainty. Evidence of traceability and accuracy is on file at Provo Engineering & Manufacturing Center. An acceptable accuracy ratio between the Standard(s) and the item calibrated has been maintained. This instrument meets or exceeds the manufacturer's published specification unless noted.

The collective uncertainty of the Measurement Standard used does not exceed 25% of the applicable tolerance for each characteristic calibrated unless otherwise noted.

The results documented in this certificate relate only to the item(s) calibrated or tested. A one year calibration is recommended, however calibration interval assignment and adjustment are the responsibility of the end user. This certificate may not be reproduced, except in full, without the written approval of the issuer.

Tested with PRM826-2952

Signed:   
Technician: Ron Harris

Page 1 of 1

Provo Engineering and Manufacturing Center, 1681 West 820 North, Provo, Utah 84601  
Toll Free: 888.258.3222 Telephone: 716.926.8243 Fax: 716.926.8215  
ISO 9001-2008 Certified



# NSAI

## National Metrology Laboratory

### Certificate of Calibration

Issued to Malachy Walsh & Partners  
Reen Point  
Blennerville  
Tralee, Co Kerry

Attention of Peter Barry

<b>Certificate Number</b>	<b>E13011B</b>
<b>Item Calibrated</b>	Bruel & Kjaer Type 2250 "Light" Sound Level Meter and 4950 Microphone
<b>Serial Number</b>	2654709 and 2657422 (microphone)
<b>Client ID Number</b>	-----
<b>Order Number</b>	MWP130108
<b>Date Received</b>	09 Jan 2013
<b>NML Procedure Number</b>	AP-NM-09

**Method** The above sound level meter was allowed to stabilise for a suitable period in laboratory conditions. The verification checks performed are those outlined in BS7580:Pt 1 (1997), *Specification for the verification of sound level meters*. This British Standard specifies a procedure for the periodic verification of conformance of a sound level meter or integrating-averaging meter to IEC60651 (1994) and IEC60804 (2000), respectively. Prior to calibration the instrument was tested, and its overall sensitivity adjusted in accordance with Clause 5.4 of BS 7580: Pt 1 using its associated sound level calibrator.

**Calibration Standards** Norsonic 1504A Calibration System incorporating:  
SR D5360 Signal Generator, No. 0735, [Cal. Due Date: 17 Jul 2013]  
Agilent 34401A Digital Multimeter, No. 0736 [Cal Due Date: 11 Jul 2013 ]  
B&K 4134 Measuring Microphone, No. 0743 [Cal Due Date: 17 Apr 2014]  
B&K 4228 Pistonphone, No. 0740 [Cal. Due Date: 08 Aug 2014]  
B&K 4226 Acoustical Calibrator, No. 0150, [Cal. Due Date: 30 Oct 2013]

<b>Calibrated by</b>	 Oliver Power	<b>Approved by</b>	 Paul Hetherington
<b>Date of Calibration</b>	16 Jan 2013	<b>Date of Issue</b>	16 Jan 2013



This certificate is consistent with Calibration and Measurement Capabilities (CMC's) that are included in Appendix C of the Mutual Recognition Arrangement (MRA) drawn up by the International Committee for Weights and Measures. Under the MRA, all participating institutes recognize the validity of each other's calibration certificates and measurement reports for quantities, ranges and measurement uncertainties specified in Appendix C (for details see [www.bipm.org](http://www.bipm.org))



# NSAI

National Metrology Laboratory

## Certificate of Calibration

Issued to Calmet Limited  
1E Three Rock Road  
Sandyford Industrial Estate  
Dublin 18

Attention of Gerry Segrave

---

Certificate Number	E14202
Item Calibrated	Bruel & Kjaer Type 4231 Sound Level Calibrator
Serial Number	2665058
Client ID Number	-----
Order Number	71135
Date Received	10 Apr 2014
NML Procedure Number	AP-NM-13

**Method** The above calibrator was allowed to stabilize for a suitable period in laboratory conditions. It was then calibrated by measuring the sound pressure level generated in its measuring cavity (half-inch configuration). The calibrator's operating frequency was also measured.

**Calibration Standards** Norsonic 1504A Calibration System incorporating:  
Agilent 34401A Multimeter, No. 0736 [Cal due date: 10 Jul 2014]  
B & K 4134 Measuring Microphone, No. 0743 [Cal due date: 23 Jan 2015]  
B & K 4228 Pistonphone, No. 0740 [Cal due: 23 Jan 2015]

---

Calibrated by *Sam Boles*  
Sam Boles 

Approved by *P. Hetherington*  
Paul Hetherington

Date of Calibration 14 Apr 2014

Date of Issue 22 Apr 2014



This certificate is consistent with Calibration and Measurement Capabilities (CMC's) that are included in Appendix C of the Mutual Recognition Arrangement (MRA) drawn up by the International Committee for Weights and Measures. Under the MRA, all participating institutes recognize the validity of each other's calibration certificates and measurement reports for quantities, ranges and measurement uncertainties specified in Appendix C (for details see [www.bipm.org](http://www.bipm.org))

## Appendix 2

### Glossary of Noise Related Terms

**Ambient Noise**

Totally encompassing sound in a given situation at a given time usually composed of a sound from many sources near and far.

**Background noise level**

The A-weighted sound pressure level of the residual noise at the assessment position that is exceeded for 90% of a given time interval, T measured using time weighting F, and quoted to the nearest whole number of decibels.

**EPA****Day:**

0800 hrs to 2200 hrs

**Night:**

2200 hrs to 0800 hrs

**Decibel (dB)**

The unit of sound pressure level, calculated as a logarithm of the intensity of sound. 0 dB is the threshold of hearing, 140 dB is the threshold of pain. A change of 1 dB is detectable only under laboratory conditions. A change of 10 dB corresponds approximately to halving or doubling the loudness of sound.

**dB(A)**

Decibels measured on a sound level meter incorporating a frequency weighting (A weighting) which differentiates between sound of different frequency (pitch) in a similar way to the human ear. Measurements in dB(A) broadly agree with peoples assessment of loudness.

**Hertz (Hz)**

Unit of frequency (pitch) of a sound

**Impulsive Noise**

A noise which is of short duration (typically less than one second), the sound pressure level of which is significantly higher than the background

**1/3 Octave band analysis**

Frequency analysis of sound such that the frequency spectrum is sub divided into bands of one third of an octave each. An octave is taken to be the frequency interval, the upper limit of which is twice the lower limit (in Hertz).

**LAeq**

Equivalent Continuous A-weighted Sound Level. The continuous steady noise level, which would have the same total A-weighted acoustic energy as the real fluctuating noise measured over the same period of time.

**L(A)<sub>10</sub>**

The noise level that is equaled or exceeded for 10% of the measurement period

**L(A)<sub>90</sub>**

The noise level that is equaled or exceeded for 90% of the measurement period

**Noise**

Unwanted sound. Any sound which has the potential to cause disturbance, discomfort or psychological stress to a subject exposed to it, or any sound which has the potential to cause actual physiological harm to a subject exposed to it or physical damage to any structure exposed to it, is known as noise

**Noise Sensitive Receptor**

A noise sensitive receptor is regarded as any dwelling house, hotel or hostel, health building, educational establishment, places of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels

**Rating level  $L_{A,T}$** 

The specific noise level plus any adjustment for the characteristic features of the noise

**Residual Noise**

The ambient noise remaining at a given position in a given situation when the specific noise source is suppressed to a degree such that it does not contribute to the ambient noise

**Sound Power**

The energy output from a source. It is measured in Watts (W)

**Specific Noise Source**

The noise source under investigation for assessing the likelihood of complaints

**Tone**

A noise with a narrow frequency composition

# Appendix V – AER/PRTR Workbook Return 2014

Sheet : Facility ID Activities

AER Returns Workbook

17/2/2015 10:22



| PRTR#: W0069 | Facility Name : Milltown Transfer Station | Filename : PRTR W0069 2014 complete.xls | Return Year : 2014 |

[Guidance to completing the PRTR workbook](#)

## AER Returns Workbook

Version 1.1.18

REFERENCE YEAR	2014
----------------	------

### 1. FACILITY IDENTIFICATION

Parent Company Name	Kerry County Council
Facility Name	Milltown Transfer Station
PRTR Identification Number	W0069
Licence Number	W0069-01

#### Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Ballyvirrane
Address 2	Milltown
Address 3	
Address 4	
Country	Kerry
Country	Ireland
Coordinates of Location	-9.70743 52.1285
River Basin District	IESW
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Tara O'Carroll
AER Returns Contact Email Address	tara.ocarroll@kerrycoco.ie
AER Returns Contact Position	Assistant Engineer
AER Returns Contact Telephone Number	0667162046
AER Returns Contact Mobile Phone Number	0879129535
AER Returns Contact Fax Number	0667162001
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	2428
Number of Employees	1
User Feedback/Comments	20 03 01 is split between NKL W0001 and KWD recycling W0217. Cardboard divided between Greenstar Jan - June and Dillon Waste July - Dec. Comparison to 2013 return 15 01 01 +7.67 t
Web Address	www.kerrycoco.ie

### 2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General
50.1	General

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

Is it applicable?	
Have you been granted an exemption ?	
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

### 4. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	No
--	----

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE | PRTR# : W0069 | Facility Name : Milltown Transfer Station | Filename : PRTR W0069 2014 complete.xls | Return Year : 2014 |

27/02/2015 12:34  
21

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	The Waste - Name and Licence/Permit No. of Host Destination Facility Name and Licence/Permit No. of Recover/Disposer	The Waste - Address of Host Destination Facility The Waste - Address of Recover/Disposer	Name and Licence / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination (i.e. Final Recovery / Disposal Site) (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	20 03 01	No	764.4	mixed municipal waste	D5	M	Weighted	Offsite in Ireland	North Kerry Landfill, W001-04	Mulhannaminnane, Tralee, Co Kerry, Ireland		
Within the Country	15 01 06	No	49.04	mixed packaging	R3	M	Weighted	Offsite in Ireland	Killamey Waste Disposal Ltd., W0217-01	Aughacoreen, Killamey Waste Disposal Ltd., County Kerry, Ireland		
Within the Country	15 01 01	No	33.71	paper and cardboard packaging	R3	M	Weighted	Offsite in Ireland	Greenstar, WFP-CK-10-0047-02	Sarsfield Court Industrial Estate, Clonmire, County Cork, Ireland		
Within the Country	20 01 01	No	177.14	paper and cardboard	R3	M	Weighted	Offsite in Ireland	Dillon Waste Ltd, WFP KY 10-001	The Kermes, Tralee, County Kerry, Ireland		
Within the Country	15 01 07	No	90.429	glass packaging	R5	M	Weighted	Offsite in Ireland	Dillon Waste Ltd, WFP KY 10-001	The Kermes, Tralee, County Kerry, Ireland		
Within the Country	15 01 04	No	15.83	metallic packaging	R4	M	Weighted	Offsite in Ireland	Dillon Waste Ltd, WFP KY 10-001	The Kermes, Tralee, County Kerry, Ireland		
Within the Country	20 01 40	No	54.94	metals	R4	M	Weighted	Offsite in Ireland	United Metals, WFP-LKC-10-001-02	Ballysimon Road, Limerick, Ireland		
Within the Country	15 01 02	No	66.06	plastic packaging	R3	M	Weighted	Offsite in Ireland	Dillon Waste Ltd, WFP KY 10-001	The Kermes, Tralee, County Kerry, Ireland		
Within the Country	20 01 11	No	1.0	textiles	R3	M	Weighted	Offsite in Ireland	Textile Recycling Ltd., WPR-0142	Road, Tallaght, Dublin 24, Ireland		
Within the Country	13 02 08	Yes	1.81	other engine, gear and lubricating oil	R1	M	Weighted	Offsite in Ireland	ENVA Ireland, W0154-01	ENVA Ireland Ltd, Clonmhinam, Portlaoise, Co Laois, Ireland	ENVA Ireland, W0154-01, ENVA Ireland, Clonmhinam, Portlaoise, Co Laois, Ireland	ENVA Ireland, Clonmhinam, Portlaoise, Co Laois, Ireland
Within the Country	19 07 03	No	17.88	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighted	Offsite in Ireland	Insh Water Milltown Wastewater treatment plant, DG331 - 01	Milltown, Co Kerry, Ireland		
To Other Countries	20 01 21	Yes	0.64	fluorescent tubes and other mercury-containing waste	R5	M	Weighted	Abroad	KMK Metals, W0113-01	Cappinour Industrial Estate, Tullamore, County Offaly, Ireland	Alba Service GmbH & Co. KG, E56657020, Kanalstrasse 64, Rheine, 48432, Germany	Kanalstrasse 64, Rheine, 48432, Germany
Within the Country	20 01 08	No	4.54	biodegradable kitchen and canteen waste	R3	M	Weighted	Offsite in Ireland	Killamey Waste Disposal Ltd., W0217-01	Aughacoreen, Killamey Waste Disposal Ltd., County Kerry, Ireland		
Within the Country	20 01 34	No	2.649	batteries and accumulators other than those mentioned in 20 01 33	R4	M	Weighted	Offsite in Ireland	ENVA Ireland, W0154-01	ENVA Ireland Ltd, Clonmhinam, Portlaoise, Co Laois, Ireland		
Within the Country	20 01 35	Yes	34.927	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components	R4	M	Weighted	Offsite in Ireland	Electrical Waste Management, WFP-DG-11-0014-04	Block 648, Jordanstown Drive, Greenogue Ind. Estate, Dublin, Ireland	The Recycling Village, WFP/MH11/0005/01, Unit 21 Duleek Business Park, Commons, Duleek, County Meath, Ireland	Unit 21 Duleek Business Park, Commons, Duleek, County Meath, Ireland
To Other Countries	20 01 35	Yes	43.344	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components	R4	M	Weighted	Abroad	Electrical Waste Management, WFP-DG-11-0014-04	Block 648, Jordanstown Drive, Greenogue Ind. Estate, Dublin, Ireland	Block 648, Jordanstown Drive, Greenogue Ind. Estate, Dublin, Ireland	Alexander Dock 1, Bootle, Liverpool, L201BX, United Kingdom
To Other Countries	16 02 14	No	25.713	discarded equipment other than those mentioned in 16 02 09 to 16 02 13	R4	M	Weighted	Abroad	Electrical Waste Management, WFP-DG-11-0014-04	Block 648, Jordanstown Drive, Greenogue Ind. Estate, Dublin, Ireland	Block 648, Jordanstown Drive, Greenogue Ind. Estate, Dublin, Ireland	Alexander Dock 1, Bootle, Liverpool, L201BX, United Kingdom
To Other Countries	16 02 11	Yes	14.1	discarded equipment containing chlorofluorocarbons, HCFC, HFC	R4	M	Weighted	Abroad	Electrical Waste Management, WFP-DG-11-0014-04	Block 648, Jordanstown Drive, Greenogue Ind. Estate, Dublin, Ireland	Block 648, Jordanstown Drive, Greenogue Ind. Estate, Dublin, Ireland	Alexander Dock 1, Bootle, Liverpool, L201BX, United Kingdom
Within the Country	20 03 01	No	767.56	mixed municipal waste	R12	M	Weighted	Offsite in Ireland	Killamey Waste Disposal Ltd., W0217-01	Aughacoreen, Killamey Waste Disposal Ltd., County Kerry, Ireland		
Within the Country	15 01 01	No	76.98	paper and cardboard packaging	R3	M	Weighted	Offsite in Ireland	Dillon Waste Ltd, WFP KY 10-001	The Kermes, Tralee, County Kerry, Ireland		

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



Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	<u>Fac Waste</u> - Name and Licence/Permit No of Host Destination <u>Site Use Waste</u> Name and Licence/Permit No of Recover/Disposer	<u>Fac Waste</u> - Address of Host Destination Facility <u>Site Use Waste</u> - Address of Recover/Disposer	Name and Licence / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination (i.e. Final Recovery / Disposal Site) (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					

[Link to previous years waste data](#)  
[Link to previous years waste summary data & percentage change](#)  
[Link to Waste Guidance](#)