

Kerry County Council



Waste Licence Ref No. W0086-01

**Kenmare Civic Amenity Site;
Claddanure;
Kenmare;
County Kerry.**

Annual Environmental Report.

Reporting Period:

January 1st – December 31st 2017

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1.0 Introduction

Kerry County Council operates a waste transfer and recycling facility located in the townland of Claddanure West, approximately 1 km off the main Killarney/Kenmare Road, approximately 4.7 km north west of the town of Kenmare, Co. Kerry. The site is located at the western end of the county road L-7820.

The principal activity of the Transfer Station is the compaction of solid waste into 30 cubic meter closed containers for subsequent transfer and disposal by private contractors to 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 B of Waste Licence W0086-01 issued by the Environmental Protection Agency (EPA).

2.0 Reporting Period

The reporting period for this Annual Environmental Report is 1st January 2017 – 31st December 2017.

3.0 Waste Activities

Waste disposal activities carried out at Kenmare Transfer Station are in accordance with Part 1 of Waste Licence W0086-01 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 Kenmare Transfer Station are in accordance with Part 1 of Waste Licence W0086-01 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:

1st January – 31st December 2017

The total waste disposed of at Kenmare Civic Amenity site in 2017 was 797.56 tonnes.

This represents a decrease of 40.27 tonnes on the 2016 figures as per Table 1.

<i>Waste Category/Source</i>	<i>2013</i>	<i>2014</i>	<i>2015</i>	<i>2016</i>	<i>2017</i>
Household Waste	608.50	631.00	595.25	652.39	609.86
Commercial Waste	187.02	172.58	176.58	175.24	173.84
Road Sweeping	0	0	0	0	0
Flytipping	21.28	16.38	13.72	10.20	13.86
Total Tonnes	816.80	819.96	785.55	837.83	797.56

Table 1: Waste Stream breakdown for reporting period.

The quantity of waste sent for recycling in 2017 was **320.702 tonnes** which is a decrease of 61.502 tonnes from the previous year. Waste sent for recycling during the reporting period compared with previous years is outlined in Table 2.

Waste for Recycling & Recovery (Tonnes)					
2012	2013	2014	2015	2016	2017
288.56 t	328.65 t	360.72 t	358.38 t	382.204 t	320.702t

Table 2: Waste sent for recycling and recovery for reporting period.

Household Waste Deposited at Kenmare Civic Amentity Site in 2017	
Mixed residual waste (Trans Waste out of facility)	797.56
Mixed dry recyclables (Ecosence Bags)	62.42
Cardboard, newspaper and other paper	
cardboard packaging	28.72
newspaper and magazines	18.78
Glass	
glass packaging (bottles)	49.824
Commercial Glass (Kenmare TS only)	2.50
Metals	
aluminium cans (packaging)	1.380
steel cans (packaging)	4.094
other metals (scrap metals)	69.58
Plastic	
plastic packaging (bottles)	9.520
Textiles	
textiles, non-packaging (clothes)	1.68
Batteries	
<i>lead acid batteries and accumulators (Car Batteries)</i>	0.000
Ni-Cd batteries and accumulators	1.506
Household Hazardous Waste	
Waste mineral oils	1.76
Oil filters (vehicles)	0.00
Oil containers (mineral oil) - plastic + metal	0.00
Waste cooking or vegetable oils	0.00
Waste paint and varnish (including containers)	0.177
Aerosols	0.18
WEEE collected by compliance schemes	
CRT	13.024
SDA - Small Domestic Appliances	26.165
LDA - Large Domestic Appliances	19.490
Cold	9.524
Fluorscent Tubes	0.378
Foul Water Septic Tanks	6.58
Totals excl Mixed Municipal Waste & Foul W	320.702
Totals incl Mixed Municipal Waste & Foul W	1,124.84

Table 2.1: Waste collected on site and recovered / recycled off site during the reporting period.

Waste for Recycling & Recovery	EWC	2012	2013	2014	2015	2016	2017
Metals	20 01 40	32.64	40.56	49.70	55.22	77.18	69.58
Steel Cans	15 01 04	2.62	6.29	5.372	6.1840	6.173	4.094
Glass (<i>including Commercial Glass</i>)	15 01 07	44.86	64.26	63.653	71.073	69.95	51.784
Aluminium	15 01 04	1.10	1.66	1.673	1.8940	1.966	1.38
Batteries (<i>lead acid and Ni-Cd</i>)	16 06 02*	0.13	1.63	2.916	2.752	1.329	1.506
Newspapers and Magazines	20 01 01	81.18	79.28	88.12	79.20	65.64	18.78
Cardboard	15 01 01	11.06	12.26	22.48	23.68	32.86	28.72
Fluorescent Tubes	20 01 21	0.14	0.5	0.355	0.369	0.174	0.378
Plastic Bottles	15 01 02	32.75	33.20	42.325	37.880	35.56	9.520
WEEE	20 01 36	76.22	80.29	71.743	63.071	68.442	68.383
Mixed Packaging	20 03 01	5.76	7.64	11.48	14.00	18.10	62.42
Waste Mineral Oil	13 02 08	0.10	1.08	0.36	0.89	1.76	1.76
Waste paint and varnish (<i>including containers</i>)	20 01 27				1.87	1.23	0.177
Textiles	20 01 11	0	0	0.54	0.30	1.26	1.68
Waste Cooking or vegetable oil	20 01 27	0.10	0	0.38	0	0.20	0.00
Aerosols	14 06 01	0	0	0	0	0.38	0.18
Total for Recycling / Recovery	Tonnes	288.56	328.65	360.72	358.38	382.204	320.702

Table 3.2: 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 anticipated that the quantity of household waste disposed of at Kenmare CAS should increase slightly and that the amount of other wastes (*recycling wastes of various streams*) should also increase slightly in 2018.

The proposed Waste Management (Collection Permit) Regulations 2016 – “pay-by-weight” – were due to come into effect in July 2016. The introduction of these Regulations has, however, been deferred.

6.0 Summary Report on Emissions for the Reporting Period

a) Foul Water Emissions

A Puraflow Wastewater Treatment Unit is installed at the facility to treat all foul waters from the site including discharges from the transfer station shed, compactor and bin loading area. Foul water is treated in the Puraflow unit and discharged to the surface water drains.

The foul water discharge is monitored quarterly. The results are sent to the EPA and are also available at the Kenmare facility. 7m³ of waste water was removed from Kenmare CAS during 2017 by a licensed waste contractor and brought to Irish Waters WWTP at Kenmare.

b) Surface Water Emissions

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

7.0 Summary of Results and Interpretations of Environmental Monitoring

a) Dust monitoring

Dust monitoring was undertaken at Kenmare CAS by Southern Scientific Services Ltd. during 2017.

The Total Particulates analysed were within the Emission Limit Value (ELV) as set down in the Waste License. The Annual Environmental Dust survey (2017) is attached in Appendix IV.

A submission was made to the EPA in November 2017 requesting an amendment to Condition 9.7 of Waste Licence W086-01.

Kerry Co. Co. were successful with their request to alter the location and frequency of Dust Monitoring in Kenmare CAS. The EPA agreed the following:

1. Continue to monitor ST1.
2. Relocation of ST2 to a point adjacent to the site office re- named ST2A.
3. Remove dust monitoring location ST3 and ST4.
4. The frequency of monitoring to be every 2 years (previously monitored annually).

b) Noise monitoring.

A noise survey to EPA NG4 was undertaken by Southern Scientific Services Ltd in 2017.

The waste transfer station does not generate noise at night-time when the facility is closed.

The noise survey results demonstrate that the 55dB (A) LAeq (30 min) limit is achieved at the noise sensitive location (B4).

It is concluded that the noise limit prescribed in the Waste Licence is being complied with and that activities at the Waste Transfer Station are not adversely impacting on the noise environment at the nearest noise sensitive location.

It is Kerry County Council's intention to seek a technical amendment in relation to the noise monitoring requirement of Waste Licence W0086 as past monitoring indicates that the site is not causing excessive noise to the surrounding environs.

The Annual Environmental Noise survey (2017) is attached in Appendix III

c) Monitoring of surface water.

The surface water monitoring results are attached in Appendix II.

d) Bund and Tank Integrity Test

The Bund and tank integrity test is to be undertaken every 3 years. The last test was carried out in 2016 and was in compliance as such the next test is to be carried out in 2019.

e) Kerry County Council's Laboratory Reporting

Verified laboratory results are provided in Appendix II.

8.0 Resource and Energy Consumption Summary

The following is the energy consumption for Kenmare Transfer Station for the reporting period.

8.1 Diesel

The diesel usage for Kenmare Civic Amenity Site for the reporting period 2017 was 1,501 litres which is less than the previous years usage. This could be due to introduction of a new Ecosense Compactor (Dry Recyclables) in April 2017 as such there was less usage of the JCB to compact bags in the various skips.

The primary usage of diesel is for the excavator on site. The bunded diesel tank is not used to store diesel as this reduces diesel theft on site. Therefore diesel is brought onto site on a need to use basis.

8.2 Electricity

The trends for electricity usage for Kenmare are as follows:

Year	Kenmare average electricity consumption (kWh / Day)
2017	24.76
2016	24.9
2015	17.5
2014	12.5
2013	13.8
2012	13.9

The trends show that power consumption has balanced out over the past 2 years. Electricity is primarily utilised for the office computer, internal lighting, weighbridge, waste compactor, storage heating, bored well water pump, cardboard baler, CCTV, and public lighting on the site.

8.3 Water

Water supply for the recycling centre is from a groundwater well / borehole. While the borehole is not metered, usage for the facility during the reporting period is estimated to be similar to other transfer centres of similar size, approximately 15 - 20 m³ per annum.

The water is mainly used for the office toilet / sinks as well as power washing the yards, transfer station apron / hopper and washing of trucks and bins.

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 Timescale for Proposed Development Works for Forthcoming Year

On the 31st August 2015 the Government introduced a new legislative framework to give effect to previously flagged commitments around the management of household waste by amending the Waste Management Act 1996 through the Environment (Miscellaneous Provisions) Act 2015. An introduction of 'Pay by Weight' charging for *household kerbside waste collections* was to be in place by 1st July 2016 however the introduction of 'Pay by Weight' to the various recycling /civic amenity sites has yet to be enacted.

11.0 Environmental Management System

There is an Environmental Management System (EMS) for the Kenmare Recycling Centre.

12.0 Report Targets and Environmental Objectives and Targets for 2018.

Target Area	2018 - Objective	2018 – Expected Outcome to Indicate achievement of target
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/offsite odour.
Waste Storage Practices	Ensure good housekeeping on site so that waste is stored and collected in a timely fashion so as not to cause a nuisance on site or to the surrounding areas. Construction/placement of secure sheds on site for the storage of WEEE and bailed cardboard.	No windblown litter on site or on the public road adjacent to our site. No overflowing bins on site. Proper segregation of cardboard and WEEE on site.
Incident Prevention	Continue with daily inspection and record keeping of emergency 'STOP' controls on site as well as the Fire Preventative and Emergency Response Procedure for the site.	Staff will strive to ensure no incidents occur on site by being vigilant and act on notifiable incidents immediately or in so far as is reasonably practicable.
Infrastructure integrity and drainage	An Integrity test was completed on the diesel bund in January 2016 and it is Kerry County Council's intension for its Technical staff to carry out the integrity test every 3 years as per Schedule C of Waste Licence W0086-01. (Next integrity test id due on/before January 2019)	Compliance with Bund and tank integrity assessment.
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.

13.0 Summary of Procedures Developed by the Licensee

- Revised Emergency Response Procedures and Accident Prevention Procedures were updated during 2017.
- Operational Procedures for the site supervisor which included a daily inspection checklist of 'Emergency Stops' within the confines of the Transfer/ Recycling centre continue to be implemented and where needed improved upon.

14.0 Reported Incidents and Complaints

On the 19/09/2017 an elderly gentleman (*88 years of age*) collapsed at our recycling facility and unfortunately died in hospital a number of days later. This gentleman was with his wife at the Kenmare CAS completing his household recycling. Kerry Co. Co.'s Health & Safety Section and the EPA were notified of this unfortunate incident.

Minor issues were recorded in relation to breach of ELV of Suspended Solids at the SE1 monitoring location (*WWTP*). This issue has since been resolved.

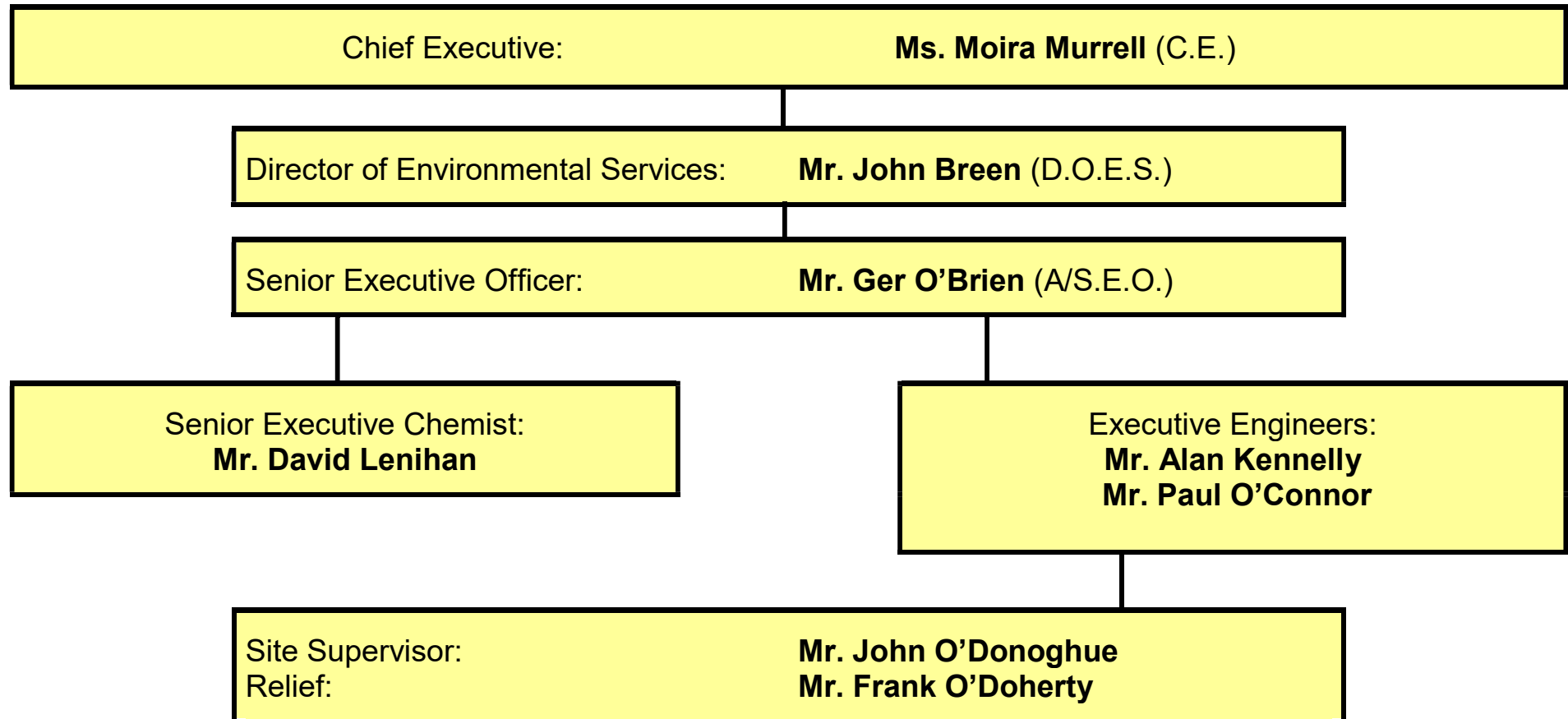
No other complaints were reported in relation to the operation of the facility during the reporting period.

15.0 Report on Financial Provision

Statement of Costs for Waste Operations - Kenmare 2017		
Accelem	Account Element	Total €
60030	Wages	€ 21,527
60040	Salaries	€ 11,137
60100	ER PRSI	€ 4,341
60200	Overtime	€ 7,551
60500	Annual Leave	€ 4,019
60510	Bank Holiday Leave	€ 517
60600	Travel/Subsistence	€ 2,172
65500	Minor Contracts- Trade Services & other works	€ 138,061
65965	Transfer to/from Cap/Rev (Exp)	€ -
66500	Non-Capital Equip Purchase - Fire Services	€ 113
67500	Non-Capital Equip Purchase - Computers	€ 1,329
68000	Non-Capital Equip Purchase - Office Equip/Furn	€ 108
68500	Non-Capital Equip Purchase - Other	€ 232
69000	Hire (Ext) - Plant/Transport/Machinery & Equipment	€ 123
69200	Repairs & Maint - Plant	€ -
69260	Repairs & Maint - Other Equip	€ 13
69400	Transfers from Machinery Yard	€ 8,859
69600	Other Vehicle Expenses	€ 102
70000	Materials	€ 560
70990	Issues from Stores	€ 6,009
70991	Returns to Stores	-€ 95
71000	Insurance	€ 381
73400	Staff Travelling & Subsistence Expenses	€ 1,171
75000	Computer Software and Maintenance Fees	€ -
76000	Communication Expenses	€ 512
76100	Postage	€ 30
77100	Courier	€ -
77200	Security - Property	€ 495
78000	Training	€ -
79900	Consultancy/Professional Fees and Expenses	€ -
80000	Advertising	€ 110
81000	Printing & Office Consumables	€ -
82100	Statutory Contributions to Other Bodies	€ 5,264
85100	Rates & Other LA Charges	€ 297
86000	Energy / Utilities	€ 2,425
TOTAL		€ 217,361

Statement of Costs for Recycling Operations - Kenmare 2017

Accelem	Account Element	Total €
60030	Wages	€ 21,686
60040	Salaries	€ 11,137
60100	ER PRSI	€ 4,223
60200	Overtime	€ 6,056
60400	Sick Pay	€ 143
60500	Annual Leave	€ 3,872
60510	Bank Holiday Leave	€ 710
60600	Travel/Subsistence	€ 2,237
65500	Minor Contracts- Trade Services & other works	€ 25,984
68000	Non-Capital Equip Purchase - Office Equip/Furn	€ -
69000	Hire (Ext) - Plant/Transport/Machinery & Equipment	€ -
69200	Repairs & Maint - Plant	€ -
69400	Transfers from Machinery Yard	€ -
70000	Materials	€ 3,572
70990	Issues from Stores	€ -
73400	Staff Travelling & Subsistence Expenses	€ 1,231
75000	Computer Software and Maintenance Fees	€ -
76000	Communication Expenses	€ 116
77100	Courier	€ -
77200	Security - Property	€ -
78000	Training	€ -
79900	Consultancy/Professional Fees and Expenses	€ -
80000	Advertising	€ -
81000	Printing & Office Consumables	€ 35
82100	Statutory Contributions to Other Bodies	€ 5,265
85100	Rates & Other LA Charges	€ -
86000	Energy / Utilities	€ -
TOTAL		€ 86,267

Management and Staffing Structure at the Facility December 2017.

17.0 Programme of Public Information

The following files are available for inspection on site 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 Kenmare Transfer Station and Recovered / Recycled offsite during reporting period 2017

Kenmare Transfer Station Residual Waste - Tonnage Period 01/01/17 to 31/17/2017												
Levied Waste as categorised by Waste Regulations					Non Levied Waste as categorised by Waste Regulations					Totals		
Month	Public Car Household	* Non weighed waste inclusive of tickets	Account Holders VAT Inclusive	KCC Levied Waste	KCC Road Sweeping & Streetcleaning	Graveyard Waste	KCC Clean Ups / F'tipping	Environment Clean Ups/ F'tipping - Invs Raised to Environment	Total KCC Tonnage not subject to Levy	Total of Waste Over Weighbridge	Total Waste Out of Facility - Including Ticket Waste	No. Loads out of TS
January 2017	18.38	40.22	16.06	0	0	0	0	1.42	1.42	35.86	76.08	8
January 2016	20.06	39.98	6.34	0	0	0	0	0.12	0.12	26.52	66.50	7
February 2017	18.1	32.12	8.26	0	0	0	0	1.04	1.04	27.40	59.52	6
February 2016	17.66	32.78	14.62	0	0	0	0	0.5	0.5	32.78	65.56	7
March 2017	19.1	19.48	16.88	0.00	0	0	0.36	1.3	1.66	37.64	57.12	6
March 2016	17.9	37.52	15.64	0	0	0	0.86	0.58	1.44	34.98	72.50	8
April 2017	19.62	33.88	13.02	0.04	0	0	0	1.16	1.16	33.84	67.72	7
April 2016	19.72	23.72	12.04	0	0	0	0	1.84	1.84	33.60	57.32	6
May 2017	21.14	35.94	12.20	3.2	0	0	0	1.1	1.1	37.64	73.58	8
May 2016	23.46	39.33	16.36	0.06	0	0	0	0.76	0.76	40.64	79.97	8
June 2017	21.1	26.24	13.46	0.14	0	0.3	1.08	0.88	2.26	36.96	63.20	7
June 2016	19.54	37.82	13.7	1.64	0	0	0.12	1.18	1.3	36.18	74.00	8
July 2017	22.06	27.56	18	2.96	0	0.46	0	0.82	1.28	44.30	71.86	8
July 2016	21.08	31.44	16.38	2.16	0	0	0.14	0.5	0.64	40.26	71.70	8
August 2017	25.06	41.06	17.82	0	0	0	0.24	0.88	1.12	44.00	85.06	9
August 2016	28.5	40.22	16.48	0	0	0	0.78	0.68	1.46	46.44	86.66	9
September 2017	21.6	31.18	12.98	0	0	0	0	0.7	0.7	35.28	66.46	7
September 2016	18.74	35.3	18.02	2.1	0	0	0	0.64	0.64	39.50	74.80	8
October 2017	17.98	27.66	13.08	0	0	0	0.1	0.54	0.64	31.70	59.36	6
October 2016	18.48	29.04	10.92	0	0	0	0	0.52	0.52	29.92	58.96	6
November 2017	17.58	38.44	13	0	0	0	0	0.54	0.54	31.12	69.56	7
November 2016	15.94	38.44	16.12	0.32	0	0	0.12	0.42	0.54	32.92	71.36	7
December 2017	15.66	18.70	12.74	0	0	0.00	0	0.94	0.94	29.34	48.04	5
December 2016	17.92	27.8	12.34	0	0	0	0	0.44	0.44	30.70	58.50	6
Total Tonnage 2017	237.38	372.48	167.50	6.34	0.00	0.76	1.78	11.32	13.86	425.08	797.56	84
Total Tonnage 2016	239.00	413.39	168.96	6.28	0.00	0.00	2.02	8.18	10.2	424.44	837.83	88
Cumulative Totals 2017		783.70					13.86					

Household Waste Deposited at Kenmare Civic Amentity Site in 2017

Mixed residual waste (Trans Waste out of facility)	20 03 01	76.08	59.52	57.12	67.72	73.58	63.20	71.86	85.06	66.46	59.36	69.56	48.04	797.56
Mixed dry recyclables (Ecosense Bags)	15 01 06	2.00	1.16	0.78	3.26	7.42	5.30	7.44	9.78	6.48	6.98	6.84	4.98	62.42
Cardboard, newspaper and other paper														
cardboard packaging	15 01 01	3.86	2.14	2.28	2.06	1.86	2.80	1.90	2.44	2.22	2.14	1.64	3.38	28.72
newspaper and magazines	15 01 01	5.00	6.06	6.66	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.78
Glass														
glass packaging (bottles)	15 01 07	5.0060	4.6940	4.3090	4.6090	2.8660	4.8730	4.3780	3.7040	4.3970	5.3760	2.8410	2.7710	49.824
Commercial Glass (Kenmare TS only)	15 01 07	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00	1.18	0.00	0.00	0.00	2.50
Metals														
aluminium cans (packaging)	15 01 04	0.1690	0.1590	0.1310	0.1160	0.1180	0.1270	0.0990	0.0920	0.1080	0.1160	0.0670	0.0780	1.380
steel cans (packaging)	15 01 04	0.4470	0.4210	0.4330	0.2950	0.2920	0.2510	0.4050	0.2130	0.3410	0.4440	0.2710	0.2810	4.094
other metals (scrap metals)	20 01 40	5.04	5.70	5.60	7.36	4.62	5.20	6.70	8.12	4.52	4.92	6.10	5.70	69.58
Plastic														
plastic packaging (bottles)	20 01 39	3.08	2.78	3.28	0.38	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	9.520
Textiles														
textiles, non-packaging (clothes)	20 01 11	0.00	0.24	0.22	0.02	0.00	0.24	0.00	0.22	0.26	0.16	0.16	0.16	1.68
Batteries														
lead acid batteries and accumulators (Car Batteries)	20 01 33	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000
Ni-Cd batteries and accumulators	20 01 33	0.000	0.000	0.000	0.682	0.000	0.000	0.000	0.000	0.000	0.824	0.000	0.000	1.506
Household Hazardous Waste														
Waste mineral oils	13 02 08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76	0.00	0.00	0.00	0.00	1.76
Oil filters (vehicles)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil containers (mineral oil) - plastic + metal		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste cooking or vegetable oils	20 01 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste paint and varnish (including containers)	20 01 27	0.00	0.00	0.00	0.00	0.177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.177
Aerosols	14 06 01	0.00	0.00	0.00	0.00	0.180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
WEEE collected by compliance schemes														
CRT	20 01 36	1.179	1.715	0.000	2.591	1.450	0.560	0.000	1.472	1.991	0.788	0.000	1.278	13.024
SDA - Small Domestic Appliances	20 01 36	3.129	1.891	0.000	4.937	1.830	2.030	0.000	3.724	2.888	2.191	0.000	3.545	26.165
LDA - Large Domestic Appliances	20 01 36	0.000	4.816	0.000	3.300	0.000	3.024	0.000	2.459	0.000	3.860	0.000	2.031	19.490
Cold	20 01 36	0.620	1.275	0.000	1.433	0.133	2.446	0.000	1.145	0.000	1.720	0.000	0.752	9.524
Fluorscent Tubes	20 01 21	0.105	0.000	0.000	0.000	0.000	0.000	0.000	0.155	0.000	0.000	0.118	0.000	0.378
Foul Water Septic Tanks	20 03 04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.58	6.58
Totals excl Mixed Municipal Waste & Foul Water		29.530	33.051	23.693	33.423	20.946	26.851	20.922	35.284	24.385	29.519	18.037	31.536	320.702
Totals incl Mixed Municipal Waste & Foul Water		105.610	92.571	80.813	101.143	94.526	90.051	92.782	120.344	90.845	88.879	87.597	86.156	1,124.84

Appendix II – Kenmare Foul and Surface Water Monitoring

Kerry County Council - All Laboratory Results Report (Lab)

Please note that in accordance with Quality assurance procedures some of this data may be provisional and may be subject to further revision. This data is not validated until issued in report format

parameters marked with # are accredited in this laboratory (for details of scope see sheet attached with this report)

Note 2 ; Parameters marked with** are subcontracted

Matrix	Sampling Point	Sample No.	Sample Type	Parameter	Visual Inspection	Colour	pH	Conductivity	B.O.D.	C.O.D.	Ammonia	Suspended Solids	Total DFG
				Reported Name	Min. Value	Max Value	Units	NONE	NONE	PH	USCM	BOD	MGL
	Kenmare Se1	2017/1280	LANDFILL										
Foul effluent	Kenmare Se1	2017/2198	LANDFILL			Slight decaying vegetation	6.6	253	4.4	80	0.05	6	<1.0
Foul effluent	Kenmare Se1	2017/3233	LANDFILL			Earthy	6.6	210	1.4	83	<0.05	8	<1.0
Foul effluent	Kenmare Se1	2017/3233	LANDFILL		No appearance of FOG	Earthy	6.7		3.8	96	<0.05	47	

**Kerry County Council
- All Laboratory
Results Report (Lab)**

Please note that in accordance with Quality assurance procedures some of this data may be provisional and may be subject to further revision. This data is not validated until issued in report format

Parameters marked with * are accredited in this laboratory (for details of scope see sheet attached with this report)

Note 2 : Parameters marked with ** are subcontracted

Matrix	Sampling Point	Sample Type	Test List	Parameter	Visual Inspection	Temperature	pH*	Conductivity*	B.O.D.	C.O.D.	Phosphorus (MRP)	Chloride*	Sulphate*	Total Solids	Ammonia*	Total Oxidised Nitrogen*	Total Dissolved Solids (180°C)	Dissolved Oxygen	Suspended Solids
				Reported Name	Min. Value	Max Value	Units	NONE	DEG_C	PH	USCM	BOD	MGL	MGL	MGL	MGL	MGL	MGLN	MGLN
Surface water	Kenmare Sw1	LANDFILL	131_TRANSFER_ST SURF			5.6	6.5	216	3.2	16		36.3			1.51			7.4	3
Surface water	Kenmare Sw1	LANDFILL	131_TRANSFER_ST SURF			10.9	6.3	187	1.3	22		36.8			0.69			5.8	7
Surface water	Kenmare Sw1	LANDFILL	131_TRANSFER_ST SURF			14.9	6.5	101	<1.3	45		20.9			0.25			9.6	2
Surface water	Kenmare Sw1	LANDFILL	131_TRANSFER_ST SURF			12	6.7	132	<1.3	10		24.8			0.64			8.7	1
Surface water	Kenmare Sw1	LANDFILL	131_TRANSFER_ST SURF			7.6	6.6	156	<1.3	<10		40.2			0.32			10.4	<1
Surface water	Kenmare Sw2	LANDFILL	131_TRANSFER_ST SURF			5.2	6.6	69	<1.3	<10		18.3			0.05			11.9	2
Surface water	Kenmare Sw2	LANDFILL	131_TRANSFER_ST SURF			11.2	6.1	99	2.6	20		14.1			<0.05			8.6	11
Surface water	Kenmare Sw2	LANDFILL	131_TRANSFER_ST SURF			14.5	6.5	54	<1.3	35		14.2			<0.05			9.2	2
Surface water	Kenmare Sw2	LANDFILL	131_TRANSFER_ST SURF			11.2	6.7	65	<1.3	11		16.8			<0.05			10.1	1
Surface water	Kenmare Sw2	LANDFILL	131_TRANSFER_ST SURF			7.4	6.1	102	<1.3	<10		29.7			<0.05			10.7	<1
Surface water	Kenmare Sw3	LANDFILL	131_TRANSFER_ST SURF			3.6	6.5	152	2.2	22		22.2			1.27			8.9	7
Surface water	Kenmare Sw3	LANDFILL	131_TRANSFER_ST SURF			11.8	6.3	136	2	35		21.6			1.09			6.5	9
Surface water	Kenmare Sw3	LANDFILL	131_TRANSFER_ST SURF			14.5	6.2	71	<1.3	45		16.2			0.09			8.1	6
Surface water	Kenmare Sw3	LANDFILL	131_TRANSFER_ST SURF			11.5	6.5	100	<1.3	19		19.4			0.39			8.2	<1
Surface water	Kenmare Sw3	LANDFILL	131_TRANSFER_ST SURF			8.6	6.1	127	<1.3	<10		33.8			0.18			9.4	<1

Appendix III – Noise Report



**southern scientific
services ltd**

ENVIRONMENTAL NOISE SURVEY 2017

KENMARE WASTE TRANSFER STATION

CLADDANURE WEST

KENMARE

CO. KERRY

W0086-01

Requested By:	P. O' Connor Kerry County Council
Prepared By:	Sinead Fagan Southern Scientific Services Ltd
Date Reported:	16 th February 2018
Our Reference:	17P 062

Issue Date	Revision	Checked By	Comment
23/02/18	00	P. Byrne (B.Sc; Ph.D) Cert. Env. Noise (IOA)	Final report

4park business centre | farranfore | county kerry | ireland | telephone +353 66 9763588 fax +353 66 9763589
email: info@southernscientificireland.com

Registered in Ireland No. 323196 VAT Reg. No. IE 6343196 M

3.1 Survey Details

The noise surveys were undertaken on the 24th and 28th of November 2017 to assess the noise levels at predetermined locations (B1 – B4) provided by Kerry County Council. The monitoring locations are described in Table 1 and illustrated in Figure 1. A thirty minute survey was conducted at each location.



Figure 1: Site layout showing monitoring positions B1 – B4

The L_{AF10} & L_{AF90} noise parameters along with the audible noise sources recorded during the survey assist in providing an understanding of the sources and nature of the noise in the area. The L_{A10} is the A-weighted sound level, which is exceeded for 10% of the measurement interval and is usually used to quantify traffic noise or other short duration/passing events. In contrast, the L_{A90} is the A-weighted sound level that is exceeded for 90% of the measurement interval and is usually used to quantify background noise. The L_{Aeq} is the equivalent continuous sound level during a measurement interval, effectively representing the average A-weighted noise level. The site waste licence specifies a day-time limit of 55dB (A) $L_{Aeq (30 min)}$ at the nearest noise sensitive location. A night-time survey was not undertaken as the transfer station does not operate during night-time hours and there is no source of noise within the site during this period.

The noise survey results demonstrate that the 55dB (A) $L_{Aeq (30 min)}$ limit is achieved at the noise sensitive location (B4). Indeed, noise levels at the waste transfer station boundary positions are also generally within 55dB (A). The waste transfer station is located approximately 0.5km from B4, the noise sensitive location. The background noise levels (L_{AF90}) at the transfer station boundary locations (B1, B2) and at the offsite locations (B3 & B4) are generally typical of a rural area. The 1/3 Octave Frequency Spectra show that there was no prominent tonal noise present at B4 when assessed following the criteria in Annex D of ISO 1996 (Part 2), 2007. It is concluded that the noise limit prescribed in the waste licence is being complied with and that activities at the Waste Transfer Station are not adversely impacting on the noise environment at the nearest noise sensitive location. The Waste Transfer Station does not generate noise at night-time when the facility is closed.

Appendix IV – Dust Report



OUR REF: RP 2017 | KERRY COUNTY COUNCIL – KENMARE CIVIC AMENITY SITE | 38709 C (Rev 00)

PAGE 01 \ 01

ANALYSIS REPORT

CUSTOMER:	KERRY COUNTY COUNCIL KENMARE CIVIC AMENITY SITE	SAMPLE TYPE:	BERGERHOFF DEPOSIT GAUGE
ADDRESS:		CONDITION OF SAMPLE ON RECEIPT:	Satisfactory
REPORT TO:	PAUL O CONNOR	DATE SAMPLED:	01 August – 05 September 2017
SAMPLED BY:	Danny O Leary, Southern Scientific Services Ltd	DATE RECEIVED:	05 September 2017
SAMPLING PT:	KENMARE CIVIC AMENITY SITE	DATE ANALYSED:	13 – 26 September 2017
PROPOSAL REF:		DATE REPORTED:	06 October 2017
		WORK NO:	38709 C 17P-038

TABLE OF RESULTS – DUST ANALYSIS (F)

Method:	Lab Ref:	Your Ref:	TOTAL PARTICULATES mg /m ³ / day	INORGANIC PARTICULATES mg /m ³ / day	Limit mg/m ³ /day <i>(Supplied by Customer)</i>
SCP 039	C17-Sep 071	ST 1 – Kenmare	340	107	350
SCP 039	C17-Sep 072	ST 2 – Kenmare	136	39	350
SCP 039	C17-Sep 073	ST 3 – Kenmare	47	16	350

Ruth Murphy
Ruth Murphy
Deputy Chemistry Laboratory Manager

Index to symbols used:

(F)	Analysis carried out at our Farranfene Laboratory.
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- The results relate only to the items tested.
- Opinions and Interpretations expressed herein are outside the scope of INAB accreditation.
- The analysis report shall not be reproduced except in full without written approval of the laboratory.
- Sampling time is outside the scope of this test. This time is used to calculate the results.

Appendix V – AER / PRTR Return



| PRTR# : W0086 | Facility Name : Kenmare Transfer Station | Filename : W0086_2017.xls | Return Year : 2017 |

[Guidance to completing the PRTR workbook](#)

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2017
-----------------------	------

1. FACILITY IDENTIFICATION

Parent Company Name	Kerry County Council
Facility Name	Kenmare Transfer Station
PRTR Identification Number	W0086
Licence Number	W0086-01

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Claddanure West
Address 2	Kenmare
Address 3	
Address 4	
Country	Kerry
Country	Ireland
Coordinates of Location	-9.6227 51.9012
River Basin District	IESW
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Alan Kennelly
AER Returns Contact Email Address	alan.kennelly@kerrycoco.ie
AER Returns Contact Position	EE
AER Returns Contact Telephone Number	0667162014
AER Returns Contact Mobile Phone Number	0879088205
AER Returns Contact Fax Number	0667162001
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	1
User Feedback/Comments	Waste cooking oil (EWC 20 01 25) - 0.0 Tonnes collected Waste paint & varnish (EWC 20 01 27) - 0.177 tonnes collected Waste aerosols (EWC 14 06 01) - 0.18 tonnes collected Commercial Glass (EWC 15 01 07) - 2.50 tonnes collected
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)?	
---	--

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

RELEASES TO AIR				Please enter all quantities in this section in KGs						
POLLUTANT		METHOD		ADD EMISSION POINT	QUANTITY			QUANTITY		
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	Emission Point 2	Emission Point 3	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
210	Dust			Bergerhoff Instruments	340.0	136.0	47.0	523.0	0.0	0.0

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

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH₄) emission to the environment under T (total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill:

Kenmare Transfer Station

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

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

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 Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	13 02 08	Yes	1.76	other engine, gear and lubricating oils	R1	M	Weighed	Offsite in Ireland	Enva,W0184-1	Clonminam Industrial Estate, ,Portlaoise, County Laois, Ireland	ENVA Ireland,W0184-01, Clonmainam, Portlaoise, Co Laois, ,Ireland	Clonmainam,Portlaoise, Co Laois, ,Ireland
Within the Country	15 01 01	No	28.72	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	Dillon Waste,WFP/KY/10/0001/01	The Kerries, , Tralee, County Kerry, Ireland		
Within the Country	15 01 02	No	9.52	plastic packaging	R3	M	Weighed	Offsite in Ireland	Dillon Waste,WFP/KY/10/0001/01	The Kerries, , Tralee, County Kerry, Ireland		
Within the Country	15 01 04	No	5.474	metallic packaging	R4	M	Weighed	Offsite in Ireland	Dillon Waste,WFP/KY/10/0001/01	The Kerries, , Tralee, County Kerry, Ireland		
Within the Country	15 01 06	No	62.42	mixed packaging	R3	M	Weighed	Offsite in Ireland	Killarney Waste Disposal,W0217-01	Aughacureen, ,Killarney, County Kerry, Ireland		
Within the Country	15 01 07	No	49.824	glass packaging	R5	M	Weighed	Offsite in Ireland	Dillon Waste,WFP/KY/10/0001/01	The Kerries, , Tralee, County Kerry, Ireland		
To Other Countries	16 02 11	Yes	9.524	discarded equipment containing chlorofluorocarbons, HCFC, HFC	R4	M	Weighed	Abroad	Eletrical Waste Management,WFP-DS-11-0014-04	Block 648, Jordanstown Drive, Greenogue Ind Est, Dublin, Ireland	European Metal Recycling,WML 101767, Alexander Dock 1, Bootle ,Liverpool, L201BX, United Kingdom	Alexander Dock 1, Bootle ,Liverpool, L201BX, United Kingdom
To Other Countries	16 02 14	No	19.49	discarded equipment other than those mentioned in 16 02 09 to 16 02 13	R4	M	Weighed	Abroad	Eletrical Waste Management,WFP-DS-11-0014-04	Block 648, Jordanstown Drive, Greenogue Ind Est, Dublin, Ireland		
Within the Country	19 07 03	No	6.58	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	Kenmare Waste Water Treatment Plant, Irish Water	Kenmare Waste Water Treatment Plant, Kenmare, Co Kerry, ,Ireland		
Within the Country	20 01 01	No	18.78	paper and cardboard	R3	M	Weighed	Offsite in Ireland	Dillon Waste,WFP/KY/10/0001/01	The Kerries, , Tralee, County Kerry, Ireland		
Within the Country	20 01 11	No	1.0	textiles	R3	M	Weighed	Offsite in Ireland	Textile Recycling Ltd,WFP-014/2	Road, Tallagh, Dublin24, ,Ireland		
To Other Countries	20 01 21	Yes	1.68	fluorescent tubes and other mercury-containing waste	R5	M	Weighed	Abroad	KMK Metals,W0113-01	Cappincur 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 34	No	1.506	batteries and accumulators other than those mentioned in 20 01 33	R4	M	Weighed	Offsite in Ireland	Enva,W0184-1	Clonminam Industrial Estate, ,Portlaoise, County Laois, Ireland		
Within the Country	20 01 35	Yes	26.165	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 23 containing hazardous components	R4	M	Weighed	Offsite in Ireland	Eletrical Waste Management,WFP-DS-11-0014-04	Block 648, Jordanstown Drive, Greenogue Ind Est, Dublin, Ireland	The Recycling Village,WFP/LH/10/W010/01, ,Monasterboise, County Louth, Ireland	, ,Monasterboise, County Louth, Ireland
To Other Countries	20 01 35	Yes	13.024	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 23 containing hazardous components	R4	M	Weighed	Abroad	Eletrical Waste Management,WFP-DS-11-0014-04	Block 648, Jordanstown Drive, Greenogue Ind Est, Dublin, Ireland	European Metal Recycling,WML 101767, Alexander Dock 1, Bootle ,Liverpool, L201BX, United Kingdom	Alexander Dock 1, Bootle ,Liverpool, L201BX, United Kingdom
Within the Country	20 01 40	No	69.58	metals	R4	M	Weighed	Offsite in Ireland	United Metals,WFP-LK-2013-147A-R1	Pk, Ballysimon Rd, Limerick, ,Ireland		
Within the Country	20 03 01	No	797.56	mixed municipal waste	R3	M	Weighed	Offsite in Ireland	Killarney Waste Disposal,W0217-01	Aughacureen, ,Killarney, County Kerry, Ireland		