

Kerry County Council



Waste Licence Ref No. W0225-01

REPORT TITLE

**Dingle Civic Amenity Site
Flemingstown, Lispole
An Daingean
Co. Kerry**

Annual Environmental Report

Reporting Period:

January– December 2012

*Prepared By:
Environmental Service Section,
Kerry County Council,
Maine Street,
Tralee
Co. Kerry.*

March 2013

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1.0 Introduction

Kerry County Council operates a civic amenity facility located in the townland of Flemingstown, Lispole adjacent to the N86 Dingle to Tralee road and approximately 5 km east of the town of Dingle, Co. Kerry. The site is accessed via the county road L-8052.

The principal activities at the facility include the recycling or reclamation of inorganic materials including mixed dry recyclables, C & D rubble, metals, glass, steel and aluminium cans, car batteries, dry cell batteries, fluorescent tubes, domestic hazardous waste, cardboard, plastic bottles, textiles, wood, WEEE and newspapers. Small quantities of organic waste (food and garden) are also collected.

Mixed municipal waste is also accepted on site and compacted into 30 cubic metre closed containers for subsequent transfer and disposal at North Kerry Landfill in Muingnaminane, Tralee.

This Annual Environment Report is prepared in accordance with Condition 11.8 and Schedule F of Waste Licence W0225-01 issued by the Environmental Protection Agency (EPA).

2.0 Reporting Period

The reporting period for this Annual Environmental Report is 1st January 2011 – 31st December 2012.

3.0 Waste Activities carried out at the Facility

Waste disposal activities carried out at Dingle Civic Amenity Site are in accordance with Part 1 of Waste Licence W0225-01 which outlines the waste disposal activities licensed in accordance with the Third Schedule of the Waste Management Acts 1996 to 2005.

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 Dingle Civic Amenity Site are in accordance with Part 1 of Waste Licence W0225-01 which outlines the waste recovery activities licensed in accordance with the Fourth Schedule of the Waste Management Acts 1996 to 2005. Licensed activities include:

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 Jan – 31st Dec 2012

Waste collected at Dingle Civic Amenity Site for disposal during the reporting year (2012) increased by 10% compared to the previous year (2011).

The weight of the waste accepted into Dingle Civic Amenity Site for disposal for the reporting period was 243.98 Tonnes. This comprises of the following breakdown:

<i>Waste for Disposal</i>	<i>Tonnes 2012</i>
Road Sweepings & Graveyard Waste	0.16
Flytipping	16.98
Public Domestic	226.64
Total for Disposal	243.98

Table 1 Waste Stream Break down for reporting Period.

Appendix I contains a breakdown of waste by classification collected on site and recovered/recycled off site during the reporting period.

5.0 Summary of Procedures Developed by the Licensee

The following procedures were developed during the reporting period:

- Revised Operational Procedures for Facility Manager
- Revised Health & Safety Procedures

6.0 Review of Nuisance Controls

Regular inspections of the facility and its environs are carried out by the facility manager and appropriate bait is used to control mice and rats on site. During 2012 no issues arose with mice or rats at the facility.

The nuisance controls which are currently in place are appropriate for the operation of this facility.

7.0 Emissions from the Facility

a) Foul Water Emissions

A Wastewater Treatment Unit and reed bed is installed at the facility to treat all foul waters from the site. The Wastewater Treatment Unit was serviced during 2012. Foul water is treated in the Wastewater Treatment Unit and reed bed before discharging to the surface water drain.

The foul water emission results are attached in Appendix II. The results show an effluent of acceptable quality during the reporting period.

b) Surface Water Emissions

Surface water runoff from the site roads and uncontaminated surfaces discharges to the surface water drain via a Class 1 full retention interceptor. Visual inspections indicated no issues with surface water emissions from the facility but occasional discolouration and sedimentation in the stream was noted upstream of the discharge point.

The surface water monitoring results are attached in Appendix II. No significant impact was noted to date.

c) Waste from Silt Traps and Interceptors

No silt/sludge or wastewater was removed from the oil interceptor or foul waste water treatment unit during the reporting period.

8.0 Resource Consumption Summary

The following is the energy consumption for Dingle Civic Amenity Site for the reporting period.

8.1 Diesel

The diesel usage for Dingle Civic Amenity Site for the reporting period 2012 was 82 litres. The primary usage of diesel is for the forklift and roadsweeper on site.

8.2 Electricity

The electricity usage for the facility during the reporting period was 6,547 kilowatt hours.

Power is required for the office computer and lighting, weighbridge, waste compactors, storage heating, cardboard baler, wastewater treatment unit, CCTV cameras 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 58,000 litres. Water is mainly used on site for power washing yards, office toilets and sinks, public toilets, washing compactor area and washing of trucks and bins when required.

No surface water or ground water is abstracted.

9.0 Reported Incidents and Complaints

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

10.0 Schedule of Environmental Objectives and Targets for the Forthcoming Year

<i>Objective</i>	<i>Target</i>
<i>Keep Surface Water Emissions within limits</i>	Regular monitoring & Inspections
<i>Reduction in Litter on Public Roads to facility</i>	Regular inspection & clean up of roads
<i>Reduction in use of Energy Resources</i>	Reduce quantity of diesel and electricity used on site
<i>Increase collection of Cardboard and Textiles</i>	Increase promotion & marketing

11.0 Report on Progress towards achievement of the 2012 Environmental Objectives and Targets

<i>Objective</i>	<i>Target</i>	<i>Progress</i>
<i>Keep Surface Water Emissions within limits</i>	Regular monitoring & Inspections	Ongoing
<i>Reduction in Litter on Public Roads to facility</i>	Regular inspection & clean up of roads	Decreasing & Ongoing
<i>Reduction in use of Energy Resources</i>	Reduce quantity of diesel and electricity used on site	Decreasing & Ongoing
<i>Increase collection of Cardboard and Textiles</i>	Increase promotion & marketing	Ongoing

12.0 Noise Monitoring Report Summary

At all locations the most influential noise source was cars passing on the N86. Other contributory noise sources included birdsong, wind borne noise and a stream running adjacent to N1 and N4. The LA90 or measured background noise level can be considered a truer reflection of the noise environment in the absence of traffic and ranged between 35dB and 45dB, well within the 55dB(A) limit. The civic amenity site did not contribute significantly at any location. Based on observations noted during the surveys and an analysis of the results it is determined that the Dingle Waste Transfer Station is not causing a noise nuisance to neighbours and operates within the noise limits set out in the waste licence.

13.0 Ambient Monitoring Summary

Dust monitoring was carried out during September/October 2012 in accordance with the licence conditions. The dust monitoring results were within the ELVs set down in the licence except for location D1.

There were no issues with dust during 2012 and no complaints were received in relation to dust at the facility.

14.0 Energy Efficiency Audit Report Summary

An energy efficiency audit was carried out for Dingle Civic Amenity Site by Kerry County Councils Energy Office and the report is attached in Appendix III.

The main recommendations for energy savings are:

- 1) Change electricity meter to avail of night rate tariffs for storage heating purposes
- 2) Continue monitoring of Energy Performance Indicator (EPI) trend and daily consumption trend
- 3) All unneeded office equipment to be fully shut down at night where possible
- 4) Reduce site light run schedule by 1/2 hour per day where possible.

15.0 Development/Infrastructural Works Summary

No development works were carried out in 2012.

16.0 Proposed Development/Infrastructural Works for coming Year

No development works are proposed at the facility for 2013

17.0 Report on Financial Provision

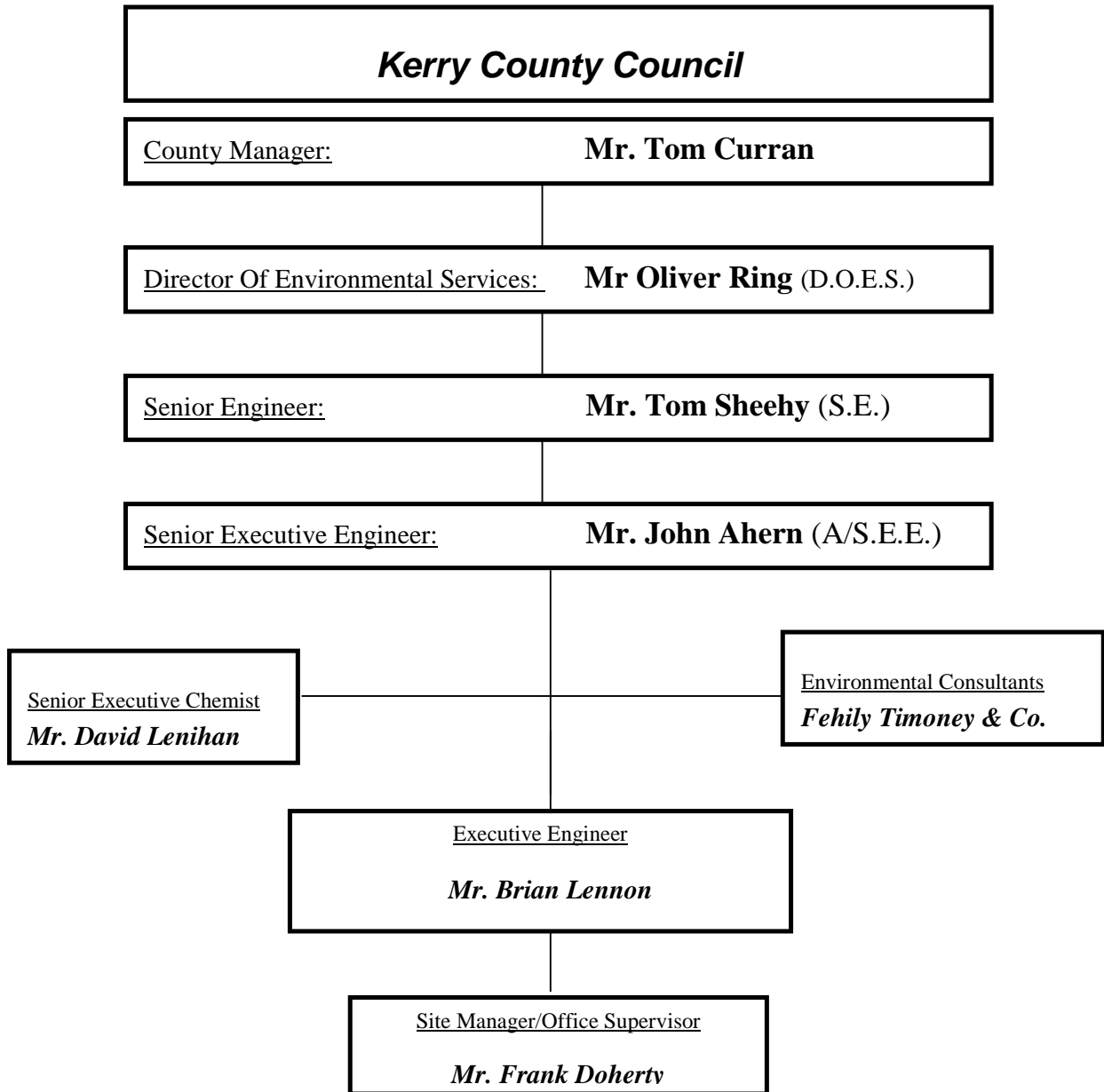
a) Statement of Costs for Waste Operations at Facility

Accelem	Accelem(T)	Total Charge Euro
60030	Wages	22,064.10
60040	Salaries	8,807.31
60100	ER PRSI	4,049.52
60200	Overtime	3,585.31
60300	Arrears	381.50
60400	Sick Pay	114.39
60500	Annual Leave	2,956.57
60510	Bank Holiday Leave	521.98
60600	Travel/ Subsistence	2,467.80
65500	Minor Contracts- Trade Services & other works	7,283.10
65965	Transfer to/ from Cap/ Rev (Exp)	0.00
67500	Non-Capital Equip Purchase - Computers	739.60
69000	Hire (Ext) - Plant/ Transport/ Machinery & Equipment	420.00
69200	Repairs & Maint - Plant	726.34
69250	Repairs & Maint -Computer Equip	0.00
69260	Repairs & Maint - Other Equip	281.82
69400	Transfers from Machinery Yard	3,425.00
70000	Materials	-237.88
70990	Issues from Stores	1,932.82
71000	Insurance	173.00
73400	Staff Travelling & Subsistence Expenses	678.62
76000	Communication Expenses	397.02
77200	Security - Property	653.35
78000	Training	0.00
79900	Consultancy/ Professional Fees and Expenses	296.80
80000	Advertising	0.00
81000	Printing & Office Consumables	16.90
82100	Statutory Contributions to Other Bodies	3,867.29
85100	Rates & Other LA Charges	0.00
86000	Energy	1,384.96
99050	Refunds	0.00
	Total Operational Waste Costs 2012	66,987.22

b) Statement of Costs for Recycling Operations at Facility

Accelem	Accelem(T)	Total Charge Euro
60030	Wages	4,185.60
60040	Salaries	2,350.23
60100	ER PRSI	877.01
60200	Overtime	636.43
60500	Annual Leave	1,029.57
60510	Bank Holiday Leave	130.74
60600	Travel/ Subsistence	411.30
65500	Minor Contracts- Trade Services & other works	7,527.90
67500	Non-Capital Equip Purchase - Computers	0.00
69200	Repairs & Maint - Plant	0.00
69250	Repairs & Maint -Computer Equip	0.00
69260	Repairs & Maint - Other Equip	120.78
70000	Materials	52.50
70990	Issues from Stores	1,669.26
73400	Staff Travelling & Subsistence Expenses	613.85
76000	Communication Expenses	73.37
77200	Security - Property	550.02
78000	Training	0.00
79900	Consultancy/ Professional Fees and Expenses	127.20
80000	Advertising	0.00
81000	Printing & Office Consumables	0.00
82100	Statutory Contributions to Other Bodies	1,657.41
85100	Rates & Other LA Charges	0.00
86000	Energy	6.00
	Total Operational Recycling Costs 2012	22,019.17

18.0 Management and Staffing Structure at Facility 2012



19.0 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 Dingle Civic Amenity Site and Recovered/Recycled offsite during reporting period

	KCC Refuse	KTC Refuse	Public Car Household	Public Commerical	* Non weighed waste inclusive of tickets	A/C Holders (VAT Inclusive)	A/C Holders (VAT Exempt)	KCC Internal Depts	Total Levied Waste	Road Sweeping	Graveyard Waste	Clean Ups / F'tipping	Total Non - levied	Total of Waste Over Weighbridge	Total Waste Out
January 2012	0	0	4.38	0	6.54	0	0	0	10.92	0	0	0	0.00	4.38	11.00
January 2011	0	0	6.36	0	11.42	0	0	0	17.78	0	0	0.62	0.62	6.98	18.40
February 2012	0	0	4.60	0	14.74	0	0	0	19.34	0	0	0.36	0.36	4.96	19.62
February 2011	0	0	3.58	0	7.54	0	0	0	11.12	0	0	0.16	0.16	3.74	11.28
March 2012	0	0	4.76	0	16.00	0	0	0	20.76	0	0	1.36	1.36	6.12	22.08
March 2011	0	0	6.74	0	11.02	0	0	0	17.76	0	0.16	0.72	0.88	7.62	18.64
April 2012	0	0	4.26	0	13.86	0	0	0	18.12	0	0	0.48	0.48	4.74	18.58
April 2011	0	0	8.14	0	8.96	0	0	0	17.10	0	0	1.46	1.46	9.6	18.56
May 2012	0	0	2.36	0	16.18	0	0	0	18.54	0	0	1.54	1.54	3.9	20.12
May 2011	0	0	4.62	0	14.52	0	0	0	19.14	0	0	0.48	0.48	5.1	19.62
June 2012	0	0	5.56	0	11.18	0	0	0	16.74	0	0.12	2.02	2.14	7.7	18.9
June 2011	0	0	5.52	0	3	0	0	0	8.52	0	0	0.6	0.60	6.12	9.12
July 2012	0	0	4.68	0	11.94	0	0	0	16.62	0	0	3.28	3.28	7.96	19.86
July 2011	0	0	6.24	0	21.86	0	0	0	28.10	0	0	0.86	0.86	7.1	28.96
August 2012	0	0	6.32	0	22.94	0	0	0	29.26	0	0.04	2.72	2.76	9.08	32.02
August 2011	0	0	6.98	0	14.46	0	0	0	21.44	0	0	0.92	0.92	7.9	22.36
September 2012	0	0	3.82	0	16.00	0	0	0	19.82	0	0	2.62	2.62	6.44	22.4
September 2011	0	0	5.8	0	15.8	0	0	0	21.6	0	0	0.34	0.34	6.14	21.94
October 2012	0	0	3.24	0	16.46	0	0	0	19.7	0	0	1	1	4.24	20.82
October 2011	0	0	3.8	0	5.1	0	0	0	8.9	0	0	0.48	0.48	4.28	9.38
November 2012	0	0	7.86	0	18.38	0	0	0	26.24	0	0	1.48	1.48	9.34	27.98
November 2011	0	0	4.54	0	17	0	0	0	21.54	0	0	0.16	0.16	4.7	21.7
December 2012	0	0	6.84	0	3.74	0	0	0	10.58	0	0	0.12	0.12	6.96	10.6
December 2011	0	0	4.72	0	13.56	0	0	0	18.28	0	0	0.28	0.28	5	18.56
Total Tonnage 2012	0.00	0.00	58.68	0.00	167.96	0.00	0.00	0.00	226.64	0.00	0.16	16.98	17.14	75.82	243.98
Total Tonnage 2011	0.00	0.00	67.04	0.00	144.24	0.00	0.00	0.00	211.28	0.00	0.16	7.08	7.24	74.28	218.52

Appendix II – Environmental Monitoring Results

Attn: Tara O’Carroll EE Waste Management

12 March 2013

Re: LABORATORY Results for An Daingean Transfer station: Jan 2011 to Dec 2012

Enclosed are results (2009 – date) of monitoring of designated Surface water points and discharge point samples as set out in EPA licence conditions for *AN DAINGEAN Transfer station*. The latest results are for July – Dec 2012.

Refer also to *app 1: details of sample locations*

No significant impact is noted

David Lenihan MSc
Senior Executive Chemist

Appendix1: Details Sampling points referred to in report				
<u>Location</u>	<u>comments</u>	<u>old or alternative name</u>	<u>Location Easting</u>	<u>Location Northing</u>
<u>Surface water</u>				
<u>Off site sampling pts</u>				
Si	d/s of outlet from transfer station (FE1)		48217	100987
S5	Drain U/s of Outlet from transfer station (FE1)		48203	100987
Sw1	Surface water drain from transfer station entering drain		48219.3	100982.1
<u>On site sampling pts</u>				
S2	Sampling station in surface water drain on site (discontinued in 2012)		48200	101022
S3	Sampling station in surface water drain on site (discontinued in 2012)		48231	101029
S4	Sampling station in surface water drain on site (discontinued in 2012)		48178	101018
<u>Leachate</u>				
<u>Outlet from treatment plant</u>				
FE 1	Effluent from transfer station		48216.9	100984.1

Civic Amenit y Site	Location	Eastings	Northings	Sample Reference	Sample Date	Sample Time	Ammonium (NH4)	pH	BOD (O2)	Conductivity @ 20 oC	Chemical Oxygen Demand (O2)	Chloride (Cl)	Dissolved Oxygen (O2)	Suspended Solids	Temperature
							mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C
Dingle	S5	48195.3	100990.1	2012/1876	18-Apr-12	12:18	4.5	5.7	1.6	456	22	41.6	8.3	34	14.2
Dingle	S5	48195.3	100990.1	2012/1912	19-Apr-12	11:22	0.47	5.7	1.5	388	18	36.7	9.3	33	9.5
Dingle	S5	48195.3	100990.1	2012/4942	10-Oct-12	15:12	0.43	6.7	< 1	292	35	31	3	2.4	13.6
Dingle	Surface Water S1 (downstream)	48218.9	100985.4	2012/1875	18-Apr-12	12:36	2.5	6.9	1	459	16	53	7.7	24	14.7
Dingle	Surface Water S1 (downstream)	48218.9	100985.4	2012/1911	19-Apr-12	10:58	0.31	6.4	1	398	17	39.5	9.1	28	10.2
Dingle	Surface Water S1 (downstream)	48218.9	100985.4	2012/4943	10-Oct-12	14:58	0.2	7	< 1	364	33	32.9	5.4	6	13.9
Dingle	SW 1	48219.3	100982.1	2012/1913	19-Apr-12	10:50	< 0.02	8.2	1.1	361	15	52	9.6	2	10.6
Dingle	SW 1	48219.3	100982.1	2012/4944	10-Oct-12	14:50	0.04	8	< 1	382	42	37.8	8.7	< 1	

Surface Waste Monitoring Results

Landfill	Location	Sample Reference	Sample Date	Sample Time	Ammonium (NH4)	pH	BOD (O2)	Conductivity @ 20 oC	Chemical Oxygen Demand (O2)	Suspended Solids	Temperature	Oils/Fats & Grease	Oils/Fats & Grease	Odour
					mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	Degrees C	mg/l	descriptive	Descriptive
Dingle	Leachate Sampling Point	2009/1298	05-Mar-09	14:35	0.02	9.4	1.2	166	17	8	7.6	< 2	no visual evidence	nd
Dingle	FE 1 Outlet of reed bed	2010/4718	12-Oct-10	12:05	0.26	6.9	2.3	1311	43	103	13.9		no visual evidence	None
Dingle	FE 1 Outlet of reed bed	2011/1713	07-Apr-11	13:55	< 0.02	8.3	< 1	518	22		12.1		no visual evidence	ND
Dingle	FE 1 Outlet of reed bed	2011/5139	16-Nov-11	12:20	0.03	7.2	< 1	429	18	1	11.3		no visual evidence	clear
Dingle	FE 1 Outlet of reed bed	2012/1914	19-Apr-12	11:02	< 0.02	7.4	< 1	425	11	2	10.5	< 0.5	no visual evidence	ND

Foul Water Monitoring Results

Appendix III - Energy Efficiency Audit Report

Energy Audit Report

for

**Dingle Civic Amenity Centre
Flemingstown, Lispole**

Site:	Dingle Civic Amenity Centre	
Date of Site Visit:	08/06/2012	
Present:	Frank Doherty	KCC Waste Transfer Station (066 9151566)
	Adam Stack	KCC Energy Office (066 7183871)
Report Revision:	Update Report	
Report Compiled:	08/06/2012	
Site MPRN:	10304070581	

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Introduction

The site was visited on 08th June 2012 to assess energy consumption and energy management at the site. This updated report was compiled on 08th June 2012 by Kerry County Council Assistant Energy Officer. Electrical energy is consumed at the site by compactors, office equipment, office heating and site and office lighting.

Site Details

Principal Energy consumers:

- Moovmor Mixed Waste Compactors x 2 / Auto switch off
- Cardboard Compactor x 1 / Auto switch off
- Street lamps x 19
- Halogen Light Fittings x 6 / On – off manually switched x 5
Motion control x 1 at entrance
- Storage Heaters x 2

Opening Hours

Tuesday 11:00-19:00
Thursday 09:00-17:00
Saturday 09:00-17:00

Lighting

Street Lighting

Control: Timer and Lux Level Control
Number of lights: 19
The time schedule for light operation is: Tuesday 16:00 – 20:00
Thursday 16:00 – 18:00
Saturday 16:00 – 18:00

Gate Light

Control: Motion
Number of lights: 1

Hazards Shed

Fluorescent light fittings: Qty 6
Model FPHFM5-49
On/Off switch control
Halogen lights at front of shed: Qty 2
On/Off switch control

WEEE Shed

Flourescent light fittings: Qty 6
Halogen lights at front of shed: Qty 3

Main Compactors

Moovmor Compactors for mixed waste.
1 x ~40W light at control panel. On/Off switch control
Auto off compacting cycle. Qty 2.
#1: Model: 3000 Static Compact
SN: SC30083631
Manufactured 2008
#2: Model: 3000 Static Compact
SN: SC30083634
Manufactured 2008

Cardboard compactor

Switch on / auto off.
Manufacturer: KK Hydraulics (CWS Complex Rock Street Tralee)

Office

Qty 1 x storage heater (2 cables connecting) Dimplex.
Qty 1 x Printer
Qty 1 x PC + Monitor
Qty 1 x Fax
Qty 1 x Photocopier
Qty 2 x Light Fittings On/Off switch control

Office bathroom

Qty 1 x Elec Hand Drier (Vortice)

Qty 1 x Elec Shower Mira Sport

Qty 1 x light fitting in

- Shower
- Hall
- Toilet

Public Toilets

Qty 2 x outside lights on/off switch control

- No motion / lux

Qty 1 x Undersink electric water heater in one toilet / this is connected to 2nd sink also

- 10L Atlantic Code 315211 PC10U 2000W 230V

Qty 1 x hand drier in each toilet

Kitchen

Qty 1 x Fridge

Qty 1 x Microwave

Qty 1 x Undersink electric water heater

- 10L Atlantic Code 315211 PC10U 2000W 230V

Qty 1 x circular light fitting. On/off switch control

Qty 1 x storage heater (2 cables connecting) Dimplex

Additional

CCTV: Qty 6 cameras installed 07/12/2010

Energy Monitoring

As part of the Kerry Local Authority Energy Management Action Plan (Energy MAP), a log of the electricity consumption was set up in November 2009. Readings are taken from the on site electricity meter and logged on an excel spreadsheet. The monthly waste tonnage compacted at the site is also logged. Automatic kWh/day and kWh/Tonne trends are generated. Refer to Figure 1 and Figure 2. This serves to improve awareness of energy consumption on site.

Electricity Consumption Trends

The daily average electricity consumed at the site from July 2011 to June 2012 was 19kWh/day. This has reduced from 29kWh/day for the same period the year before. The peak daily consumption during this period was 48kWh/day recorded in January. Night storage heating and site lighting account for increased electricity demand during winter months – refer to Figure 1.

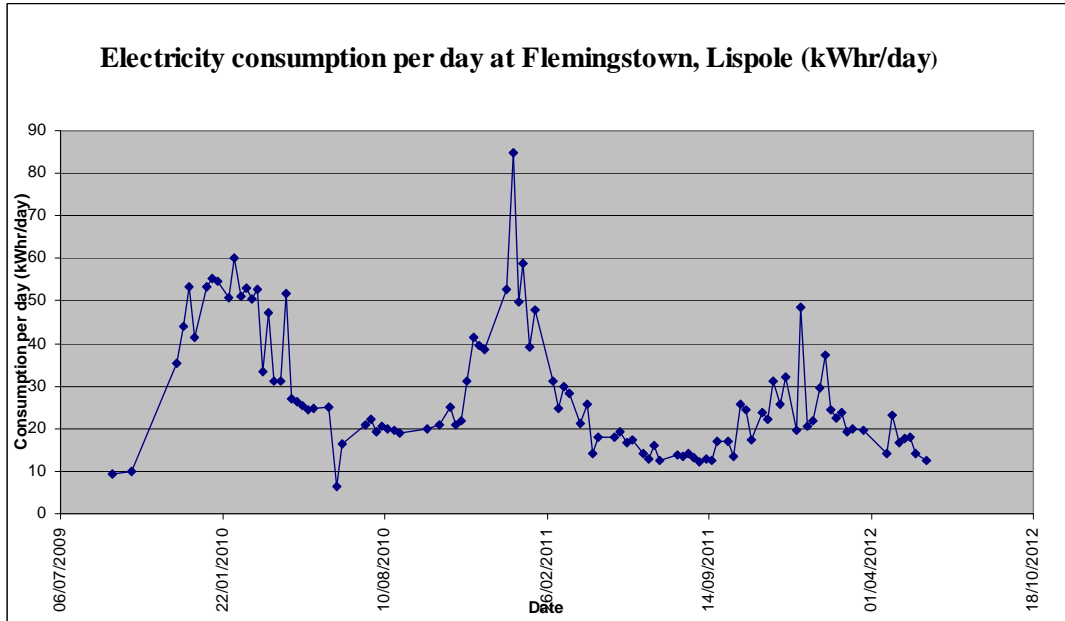
Opportunity for Energy & Cost Saving

Change of meter: Benefits of changing from 24 hour tariff to day / night tariff to be assessed.

Monitoring of EPIs: Continued monitoring of the Energy Performance Indicator (EPI) trend and daily energy consumption trending.

Turning off office equipment: All unneeded office equipment to be fully shut down at night time.

Reduced site lighting time schedule: Reduce site light run schedule by 0.5 hours/day where possible.



Appendix IV – Dust Monitoring Results



OUR REF: RP 2012 | KERRY COUNTY COUNCIL – DINGLE | 01

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ANALYSIS REPORT

CUSTOMER:	KERRY COUNTY COUNCIL	SAMPLE TYPE:	DUST
ADDRESS:	Environment Section, Main Street, Tralee, County Kerry	CONDITION OF SAMPLE ON RECEIPT:	Satisfactory
REPORT TO:	JOHN AHERN	DATE SAMPLED:	13 September – 13 October 2012
SAMPLED BY:	JOHN MANNIX	DATE RECEIVED:	22 October 2012
SAMPLING PT:	DINGLE CIVIC AMENITY SITE	DATE ANALYSED:	26 October – 06 November 2012
ORDER NO:		DATE REPORTED:	26 November 2012
		WORK NO.:	27391 C 12P-101

TABLE OF RESULTS

METHOD:	LAB REF:	YOUR REF:	TOTAL PARTICULATES mg/m³/day	INORGANIC PARTICULATES mg/m³/day
SCP 039	C12-Oct 433	D1	123	53
SCP 039	C12-Oct 434	D2	125	59
SCP 039	C12-Oct 435	D3	148	59
SCP 039	C12-Oct 436	D4	81	28

Karen Lavery
 Karen Lavery
 Chemistry Laboratory

- 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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Appendix V – Noise Monitoring Results



Malachy Walsh and Partners
Engineering and Environmental Consultants

**2012 Dingle Waste Transfer Station Waste
Licence Environmental Noise Survey**

On behalf of
Kerry County Council

January 2013

Job number	Revision	Prepared by	Checked by	Status	Date
15002	6003 A	Peter Barry	Ken Fitzgerald	FINAL	31 st January 2013



MWP ENVIRONMENT AND PLANNING

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1 INTRODUCTION

Kerry County Council operates a waste transfer station in Lispole, near Dingle. The facility operates within the conditions set out in the waster licence register number W0225-01. 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

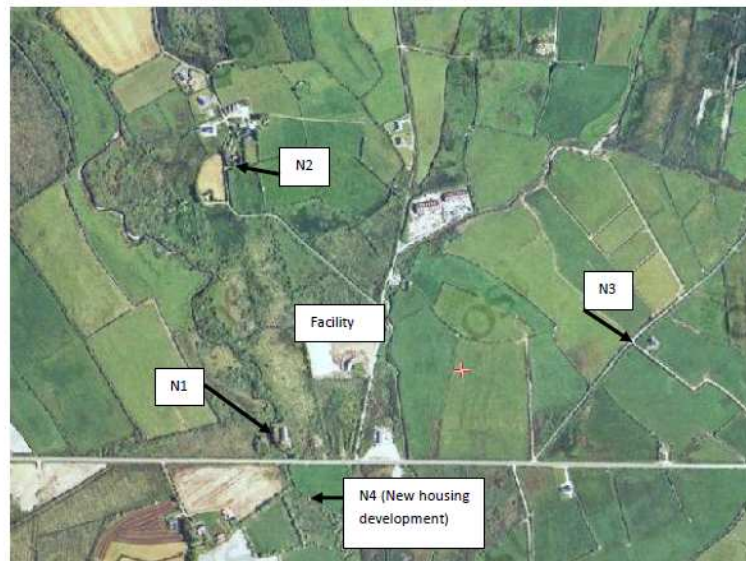
2.1 MONITORING PERIODS

The survey was carried out in accordance with the EPA guidance document, EPA guidance note- 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 6th November 2012.

2.2 MONITORING LOCATIONS

Monitoring was undertaken at the four nearest noise sensitive locations (N1, N2, N3 and N4). The locations are shown on Figure 1.

Figure1: NOISE MONITORING LOCATIONS



2.3 Survey Equipment

The measurements were made using a Bruel & Kjaer type 2250 Light Logging integrating Sound Level Meter. This instrument is a Type 1 instrument 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 meter (SLM) was 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.

The instrument was calibrated with a B&K type 4231 calibrator prior to and after the measurement period. Factory calibration certificates for the noise level meter and acoustic calibrator, detailing equipment serial numbers, calibration traceability and re-calibration dates are presented in Appendix A of this report. A glossary of noise related terms is presented in Appendix B.

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.

The 1/3 Octave Frequency was also measured at each location. This allows for the detection and identification of tonal content. Typically there is a 5dB(A) penalty for tonal content in the noise signature.

2.4.1 Meteorological Conditions

Meteorological conditions were noted as dry, mild with light winds not exceeding 5 meters per second (ms^{-1}) at any time during the surveys. 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 $5ms^{-1}$.

3 RESULTS

Table 1. Noise Monitoring Results

Location	Date and Time	L _{Aeq} dB	L _{A90} dB	L _{A10} dB	Tones Hz	Description of Noise Sources
N1 (nearest dwelling west of facility)	6/11/2012 11:00 – 11:30 13:21 – 13:51	56	42	60	No tones detected	Unrelated road traffic noise from the N86, was the dominant noise source. A faint hum perhaps from the tipping shed was faintly audible during lulls in the traffic noise but the contribution of the waste transfer station was not considered significant. Birdsong, windborne noise and a nearby stream also contributed to the noise build up.
		57	45	61	No tones detected	
		-	-	-	-	
N2 (nearest dwelling north of facility)	6/11/2012 11:36: 12:04 14:00 – 14:30	42	35	43	No tones detected	Background traffic noise (N86) was the main contributing noise source. Birdsong and wind in nearby vegetation also contributed to the noise build up. The transfer station was not audible at this location.
		45	39	47	No tones detected	
		-	-	-	-	
N3 (nearest dwelling east of facility)	6/11/2012 12:10 – 12:40 14:35 – 15:05	45	36	49	No tones detected	Background traffic noise (N86) was the main contributing noise source. Birdsong and wind in nearby vegetation also contributed to the noise build up. The transfer station was not audible at this location.
		46	37	49	No tones detected	
		-	-	-	-	
N4 (nearest dwelling south of facility)	6/11/2012 12:45 – 13:15 15:10 – 15:40	57	42	61	No tones detected	Unrelated road traffic noise from the N86, was the dominant noise source. A faint hum perhaps from the tipping shed was faintly audible during lulls in the traffic noise but the contribution of the waste transfer station was not considered significant. Birdsong, windborne noise and a nearby stream also contributed to the noise build up.
		58	43	62	No tones detected	
		-	-	-	-	

Note: Bad Weather meant the survey had to be abandoned after two monitoring rounds. However it was noted after one round that the waste transfer station was clearly not causing a noise nuisance at any of the monitoring locations.

4 CONCLUSION

At all locations the most influential noise source was cars passing on the N86. Other contributory noise sources included birdsong, wind borne noise and a stream running adjacent to N1 and N4. 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 35dB and 45dB, well within the 55dB(A) limit. The waste transfer station did not contribute significantly at any location. Based on observations noted during the surveys and an analysis of the results it is determined that the Dingle 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 or obvious tones were noted during any of the surveys. One third Octave Centre Frequency Data is illustrated in Appendix C.

Appendix A

Calibration Certificates

Service Engineering Report

Customer: Malachy Walsh and Partners

Ref Number: R0459682/01 **Order Num:** 13378
Ser/No.: 2654709 **Booked In:** 22-Mar-10
Product: B&K 2250 Sound Level Meter **Proceed Date:** 07-Apr-10
Warranty: No

Customers Reported Fault
calibration

Fault Diagnosis:

Engineers Report:

B&K 4950 S/N 2657422 Microphone PASS Frequency & sensitivity test.
B&K 2250-L Calibration,
Calibrate with manufactures performance specification's) PASS
Supplied Results Certificate .

Disclaimer:

All work carried out is covered by a 90 Day warranty on parts and labour. Exceptions:- Replacement batteries, electrochemical cells. Any shortages must be reported within seven working days of despatch from our premises. Any queries should be directed to Casella Customer Service Department. Casella CEL Management system accredited to ISO- 9001:2000 by the SIRA Certification Services (CML), Certificate No. 051824.

Casella Measurement

Engineer: Navin Mistry
Sig:  Completion Date 08-Apr-10



Casella Measurement, Regent House, Wolsley Road, Kempston, Bedford, MK42 7JY
Phone: +44(0)1234 844100, FAX: +44(0) 1234 841490, E-mail: info@casellacel.com
Web: www.casellacel.com

Certificate of Conformance
and
Calibration

CASELLA
MEASUREMENT

Customer: Malachy Walsh and Partners
Instrument: B&K 4231
Serial No 1: 2665058
Part No.:
Ref Number: 0459682/02
Date of Issue: 08/04/2010
P/Ord Num: 13378

Firmware Ver: N/A

Calibration Method: -

The instruments indicated values for the measurement parameters have been validated using the tested traceable equipment which has been calibrated with traceability to National and International references.

The uncertainties are for a confidence probability of not less than 95%.

<u>Traceable Equipment: -</u>	<u>Equip No.</u>	<u>Cal Due Date</u>
DMM Fluke 45	00691	18/06/2010
B&K 4231 Calibrator	10066M	06/01/2010

Test Conditions: -

Ambient Temperature : 24.7°C
Ambient Humidity : 35%RH
Ambient Pressure : 1010 mBar

Results: -

	Initial Reading:	Final Reading:	Tol (Class 1):	Tol (Class 2):
Frequency @ 1kHz:	: 1.0001	: 1.0001	: ±1 Hz @ 1 kHz	
SPL @ 114dB:	: 114.2	: 114.0	: ±0.15dB	±0.2dB
SPL @ 94dB:	: 94.2	: 94.0	: ±0.15dB	
With Coupler:	:			

Comments:

Casella Measurement

Engineer: Navin Mistry

Sig



Calibration Date 08/04/10



Casella Measurement, Regent House, Wolsley Road, Kempston, Bedford, MK42 7JY
Phone: +44(0)1234 844100, FAX: +44(0) 1234 841490, E-mail: info@casellacel.com
Web: www.casellacel.com

CC14 Issue 03

Appendix B

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)₁₀

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

L(A)₉₀

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,rTr}

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

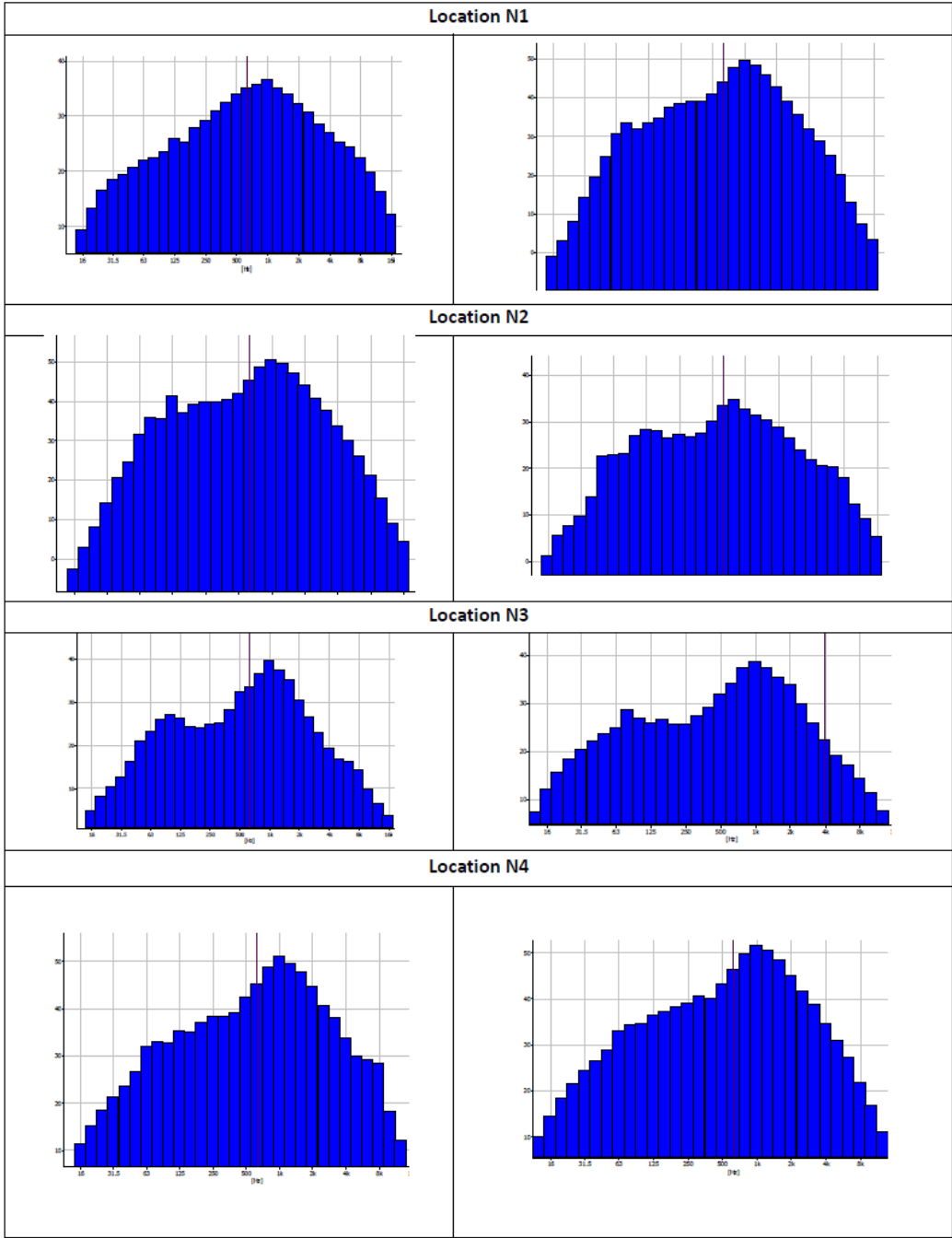
The noise source under investigation for assessing the likelihood of complaints

Tone

A noise with a narrow frequency composition

Appendix C

1/3 Octave Centre Frequency Data Graphical Representation



Appendix VI – PRTR Return for 2012

Sheet : Facility ID Activities

AER Returns Workbook



Environmental Protection Agency

| PRTR# : W0225 | Facility Name : Dingle Civic Amenity Centre | Filename : W0225_2012.xlsm | Return Year : 2012 |

[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.15

REFERENCE YEAR	2012
-----------------------	------

1. FACILITY IDENTIFICATION

Parent Company Name	Kerry County Council
Facility Name	Dingle Civic Amenity Centre
PRTR Identification Number	W0225
Licence Number	W0225-01

Waste or IPPC Classes of Activity

No.	class_name
3.12	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
4.13	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.
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Flemingstown
Address 2	Lispole
Address 3	An Daingean
Address 4	
Country	Kerry
Coordinates of Location	Ireland
River Basin District	-10.2181 52.1409
NACE Code	IESW
Main Economic Activity	3821
AER Returns Contact Name	Treatment and disposal of non-hazardous waste
AER Returns Contact Email Address	Tara O'Carroll
AER Returns Contact Position	tara.ocarroll@kerrycoco.ie
AER Returns Contact Telephone Number	Assistant Engineer
AER Returns Contact Mobile Phone Number	0667162020
AER Returns Contact Fax Number	0879129535
Production Volume	0667162001
Production Volume Units	0.0
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	1
User Feedback/Comments	
Web Address	

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)?	
---	--

This question is only applicable if you are an IPPC or Quarry site

| PRTR# : W0225 | Facility Name : Dingle Civic Amenity Centre | Filename : W0225_2012.xls | Return Year : 2012 |

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

[PRTR# : W0225 | Facility Name : Dingle Civic Amenity Centre | Filename : W0225_2012.xsm | Report Year : 2012]

21/03/2013 16:58

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					
To Other Countries	13 02 04	Yes	0.56	mineral-based chlorinated engine, gear and lubricating oils	R3	M	Weighed	Abroad	Enva,W0184-01	Clonminam Industrial Estate ...Portlaoise,County Laois,Ireland	Nehlsen GmbH & Co. Iq.A-4187 HH,Louis-Krages-Strasse,„Bremen,D-28237,Germany	Louis-Krages-Strasse,„Bremen,D-28237,Germany
Within the Country	15 01 01	No	11.88	cardboard packaging	R3	M	Weighed	Offsite in Ireland	Greenstar,WFP-CK-10-0047-02	Clonminam Industrial Estate ...Glanmire,County Cork,Ireland		
Within the Country	15 01 02	No	4.52	plastic packaging	R3	M	Weighed	Offsite in Ireland	Dillon waste Ltd,WFP/KY/10/0001/01	The Kermies,„Tralee,County Kerry,Ireland		
Within the Country	15 01 04	No	1.16	metallic packaging	R4	M	Weighed	Offsite in Ireland	Rehab_Glasscoo Ltd,WFP-KE-09-0357-01	Unit 4 Osberstown Business Park,Carragh Road,Naas,County Kildare,Ireland		
Within the Country	15 01 06	No	32.34	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	13.86	glass packaging	R5	M	Weighed	Offsite in Ireland	Rehab_Glasscoo Ltd,WFP-KE-09-0357-01	Unit 4 Osberstown Business Park,Carragh Road,Naas,County Kildare,Ireland		
To Other Countries	16 02 11	Yes	4.2	discarded equipment containing chlorofluorocarbons, HCFC, HFC	R4	M	Weighed	Abroad	EWM Ltd,WFP-DS-09-0012-01	Block 648 Jordanstown Drive,Greenogue Industrial estate,Rathcoole,County Dublin,Ireland	EMR,EAML40099,Bentley Road South,„Darlston,WS10 8LW West Midlands,United Kingdom	Bentley Road South,„Darlston,WS10 8LW West Midlands,United Kingdom
To Other Countries	16 02 14	No	9.5	discarded equipment other than those mentioned in 16 02 09 to 16 02 13	R4	M	Weighed	Abroad	EWM Ltd,WFP-DS-09-0012-01	Block 648 Jordanstown Drive,Greenogue Industrial estate,Rathcoole,County Dublin,Ireland		
Within the Country	17 01 07	No	7.34	mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	D1	M	Weighed	Offsite in Ireland	Higgins Waste,WFP/KY/50/04/2009	The Kermies,„Tralee,County Kerry,Ireland		
Within the Country	20 01 01	No	27.56	Newspaper and pams	R3	M	Weighed	Offsite in Ireland	Dillon waste Ltd,WFP/KY/10/0001/01	The Kermies,„Tralee,County Kerry,Ireland		
Within the Country	20 01 08	No	4.6	Green Waste	R3	M	Weighed	Offsite in Ireland	Higgins Waste,WFP/KY/50/04/2009	The Kermies,„Tralee,County Kerry,Ireland		
Within the Country	20 01 11	No	3.22	textiles	R3	M	Weighed	Offsite in Ireland	Textile Recycling Ltd,WPR-014/2	Belgard Road,„Tallaght,Dublin 4,Ireland		
To Other Countries	20 01 27	Yes	1.04	paint, inks, adhesives and resins containing dangerous substances	R5	M	Weighed	Abroad	Enva,W0184-01	Clonminam Industrial Estate ...Portlaoise,County Laois,Ireland	Nehlsen GmbH & Co. Iq.A-4187 HH,Louis-Krages-Strasse,„Bremen,D-28237,Germany	Louis-Krages-Strasse,„Bremen,D-28237,Germany
To Other Countries	20 01 34	No	0.51	batteries and accumulators other than those mentioned in 20 01 33	R4	M	Weighed	Abroad	EWM Ltd,WFP-DS-09-0012-01	Block 648 Jordanstown Drive,Greenogue Industrial estate,Rathcoole,County Dublin,Ireland		
Within the Country	20 01 35	Yes	14.06	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components	R4	M	Weighed	Offsite in Ireland	EWM Ltd,WFP-DS-09-0012-01	Block 648 Jordanstown Drive,Greenogue Industrial estate,Rathcoole,County Dublin,Ireland	The Recycling Village,WFP/LH/10/W010/01,„Monasterboise,County Louth,Ireland	„Monasterboise,County Louth,Ireland
To Other Countries	20 01 36	No	12.04	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Abroad	EWM Ltd,WFP-DS-09-0012-01	Block 648 Jordanstown Drive,Greenogue Industrial estate,Rathcoole,County Dublin,Ireland		
Within the Country	20 01 38	No	21.54	wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	Higgins Waste,WFP/KY/50/04/2009	The Kermies,„Tralee,County Kerry,Ireland		
Within the Country	20 01 40	No	14.0	metals	R4	M	Weighed	Offsite in Ireland	Hegarty Metals,WFP-LC-11-001-01	Ballysimon Road,„Limerick,„Ireland		
Within the Country	20 03 01	No	243.78	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	North Kerry Landfill,W001-04	Muingnammine,„Tralee,County Kerry,Ireland		
Within the Country	20 01 02	No	4.32	glass	R4	M	Weighed	Offsite in Ireland	Higgins Waste,WFP/KY/50/04/2009	The Kermies,„Tralee,County Kerry,Ireland		
To Other Countries	14 06 01	Yes	0.06	chlorofluorocarbons, HCFC, HFC	R2	M	Weighed	Abroad	Enva,W0184-01	Clonminam Industrial Estate ...Portlaoise,County Laois,Ireland	Nehlsen GmbH & Co. Iq.A-4187 HH,Louis-Krages-Strasse,„Bremen,D-28237,Germany	Louis-Krages-Strasse,„Bremen,D-28237,Germany