

**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 2013**

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

March 2014



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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 meter closed containers for subsequent transfer and disposal at North Kerry Landfill in Muingnamine, 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 1<sup>st</sup> January – 31<sup>st</sup> December 2013.

## **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: 1<sup>st</sup> Jan – 31<sup>st</sup> Dec 2013**

Waste collected at Dingle Civic Amenity Site for disposal during the reporting year (2013) increased by 40% compared to the previous year (2012).

The weight of the waste accepted into Dingle Civic Amenity Site for disposal for the reporting period was 346.92 Tonnes. This comprises of the following breakdown:

<b><i>Waste for Disposal</i></b>	<b><i>Tonnes</i></b>	
	<b><i>2012</i></b>	<b><i>2013</i></b>
Road Sweepings & Graveyard Waste	0.16	1.14
Flytipping	16.98	25.88
Public Domestic	226.64	319.90
<b>Total for Disposal</b>	<b>243.98</b>	<b>346.92</b>

**Table 1 Waste Stream Break down for reporting Period.**

Appendix I -breakdown of waste by classification collected on site and sent for landfilling/recovery/recycling 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 2013 no issues arose with vermin 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 2013. Foul water is treated in the Wastewater Treatment Unit and reed bed before discharging to the surface water drain.

### **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 2013 was 19 litres.



## 8.2 Electricity

The electricity usage for the facility during the reporting period was 5,641 kilowatt hours.

Year	Average Electricity Usage kWh/day
2013	20
2012	20
2011	25
2010	33
2009	32

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 47 cubic meters. Water is used on site for power washing yards, office toilets and sinks, public toilets and washing compactor area.

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 and report on Progress towards achievement of 2013 objectives**

<b>Target Area</b>	<b>2013 - Objective</b>	<b>2013 - Achievement</b>	<b>2014 - Objective</b>
Surface Water Emissions	Keep surface water emissions from the site with the licenced limits	Regular inspection of water drains carried out. Regular inspection of bunds carried out. Quarterly monitoring of surface water monitoring points carried out	Ensure that any raised emissions are dealt with in a timely manner, cause identified and were possible and practicable eliminated. Formalise the inspection of water drains. Formalise the inspection of bunds. Forward quarterly monitoring to Agency within timescale in licence.
Litter on public access roads to facility	Reduce the waste from lost loads on access roads to facilities	Regular litter monitoring carried out by on site staff	Continue regular litter patrols.
Energy Resources	Reduce the quantity of diesel and electricity used on site	Maintained electricity consumption level on site. Reduced diesel consumption on site.	Continue to maintain electricity consumption level on site. Continue to maintain diesel consumption on site.
Waste Records	Introduce new computer system to record waste transactions.	System in place and database connection back to KCC HQ.	Maintain database.

## 11.0 Noise Monitoring Report Summary

### 6.1 N1

Period	Run	Equipment	Date/Time	LAeq,T	LAF90	LAF10	LAFmax	On site tonal?	On site impulsive ?	Rated Noise Level, LAr,T	Description of On-site Noise Sources	Description of Off-site Noise Interference	Compliant
Daytime	1	First set	12/12/2013 09:26	74	49 *	73	93	N/A	N/A	49	Noise from facility not audible	Traffic on the N84. Wind blowing trees	N/A

### 6.2 N2

Period	Run	Equipment	Date/Time	LAeq,T	LAF90	LAF10	LAFmax	On site tonal?	On site impulsive ?	Rated Noise Level, LAr,T	Description of On-site Noise Sources	Description of Off-site Noise Interference	Compliant
Daytime	1	Second set	12/12/2013 10:05	49	39 *	58	77	N/A	N/A	39	Noise from facility not audible	Wind blowing trees. Distant traffic	N/A

### 6.3 N3

Period	Run	Equipment	Date/Time	LAeq,T	LAF90	LAF10	LAFmax	On site tonal?	On site impulsive ?	Rated Noise Level, LAr,T	Description of On-site Noise Sources	Description of Off-site Noise Interference	Compliant
Daytime	1	First set	12/12/2013 10:51	53	43 *	60	80	N/A	N/A	43	Noise from facility not audible	Traffic on the N84. Wind blowing trees	N/A

#### Notes

1. Rated Noise Level is equal to  $L_{Aeq,T}$  (or  $L_{AF90}$  where this is a better descriptor) plus any adjustments for tonal or impulsive characteristics. Note that no adjustments for tonal are permitted for night-time monitoring as no tonal is permitted at night
2. Where  $L_{AF90}$  is a better descriptor of on site noise, the value is marked with an asterisk

6.4 **N4**

Period	Run	Equipment	Date/Time	L <sub>Aeq,T</sub>	L <sub>AF90</sub>	L <sub>AF10</sub>	L <sub>AFmax</sub>	On site tonal?	On site impulsive ?	Rated Noise Level, L <sub>Ar,T</sub>	Description of On-site Noise Sources	Description of Off-site Noise Interference	Compliant
Daytime	1	Second set	12/12/2013 09:22	62	47 *	65	80	N/A	N/A	47	Noise from facility not audible	Traffic on the N84. Wind blowing trees	N/A

Notes

1. Rated Noise Level is equal to L<sub>Aeq,T</sub> (or L<sub>AF90</sub> where this is a better descriptor) plus any adjustments for tonal or impulsive characteristics. Note that no adjustments for tonal are permitted for night-time monitoring as no tonal is permitted at night
2. Where L<sub>AF90</sub> is a better descriptor of on site noise, the value is marked with an asterisk

## **12.0 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.

## **13.0 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.

## **14.0 Development/Infrastructural Works Summary**

No development works were carried out in 2013.

## **15.0 Proposed Development/Infrastructural Works for coming Year**

No development works are proposed at the facility for 2014

## 16.0 Report on Financial Provision

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

b)

Accelem	Accelem(T)	EURO
60030	Wages	25,944.55
60040	Salaries	4,919.83
60100	ER PRSI	4,012.58
60200	Overtime	2,389.77
60300	Arrears	530.42
60500	Annual Leave	2,408.89
60510	Bank Holiday Leave	891.96
60600	Travel/Subsistence	2,700.87
61990	Other Allowances	0.51
65500	Minor Contracts- Trade Services & other v	14,316.46
68000	Non-Capital Equip Purchase - Office Equip	211.51
69000	Hire (Ext) - Plant/Transport/Machinery &	420.00
69200	Repairs & Maint - Plant	0.00
69250	Repairs & Maint -Computer Equip	0.00
69260	Repairs & Maint - Other Equip	349.96
69400	Transfers from Machinery Yard	3,128.00
70000	Materials	323.20
70990	Issues from Stores	2,433.31
70991	Returns to Stores	-166.70
71000	Insurance	92.10
73400	Staff Travelling & Subsistence Expenses	310.33
75000	Computer Software and Maintenance Fee	0.00
76000	Communication Expenses	320.76
76100	Postage	20.00
77100	Courier	0.00
77200	Security - Property	756.00
78000	Training	0.00
79900	Consultancy/Professional Fees and Exper	56.00
80000	Advertising	815.41
81000	Printing & Office Consumables	10.45
82100	Statutory Contributions to Other Bodies	3,860.50
85100	Rates & Other LA Charges	0.00
86000	Energy	788.05
	<b>Total</b>	<b>71,844.72</b>

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

Accelem	Accelem(T)	EURO
60030	Wages	8,135.32
60100	ER PRSI	1,112.66
60200	Overtime	1,116.89
60500	Annual Leave	706.96
60510	Bank Holiday Leave	243.50
60600	Travel/Subsistence	863.73
65500	Minor Contracts- Trade Services & other works	16,284.64
68500	Non-Capital Equip Purchase - Other	0.00
69200	Repairs & Maint - Plant	0.00
69250	Repairs & Maint -Computer Equip	0.00
69260	Repairs & Maint - Other Equip	132.84
69400	Transfers from Machinery Yard	0.00
70000	Materials	882.80
70990	Issues from Stores	517.73
73400	Staff Travelling & Subsistence Expenses	69.76
75000	Computer Software and Maintenance Fees	0.00
76000	Communication Expenses	81.25
77100	Courier	3.00
77200	Security - Property	189.00
78000	Training	921.74
79900	Consultancy/Professional Fees and Expenses	24.00
80000	Advertising	573.75
81000	Printing & Office Consumables	10.45
82100	Statutory Contributions to Other Bodies	1,654.10
85100	Rates & Other LA Charges	0.00
86000	Energy	0.00
99050	Refunds	0.00
	<b>Total Cost</b>	<b>33,524.12</b>

## **17.0 Management and Staffing Structure at Facility 2013**

### **Kerry County Council**

**County Manager:** Mr Tom Curran

**Director of Services:** Mr Oliver Ring

**Senior Engineer Environmental Services:**

Mr Tom Sheehy

**Senior Executive Engineer &  
Facility Engineer:**

Mr John Ahern

**Senior Executive Chemist:**

Mr David Lenihan

**Site Manager/  
Weighbridge Operator:**

Mr Frank Doherty (Jan – June)

Mr Tim Falvey (June – Dec)

**Relief Operatives:**

Mr Denis Lenihan

Mr John Mannix



## **18.0 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**

An Daingean Civic Amenity Site Residual Waste - Tonnage Period 01/01/13 to 31/12/2013																		
						Non Levied Waste					Total of Waste Over Weighbridge	Total Waste Out	No. Loads out of TS	Waste In @ NKL	No. Loads into NKL	Variance	Average Variance per Load	
	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	Road Sweeping	Graveyard Waste	Clean Ups / Flipping	Total Non - levied								
January 2013	7.74	21.42	0	0	0	29.16	0.82	0	0.86	1.68	9.42	30.74	3	30.84	3	0.10	0.03	
January 2012	4.38	6.54	0	0	0	10.92	0	0	0	0.00	4.38	11.00	1	10.92	1	-0.08	-0.08	
February 2013	7.08	13.94	0	0	0	21.02	0	0	0.1	0.10	7.18	21.28	2	21.12	2	-0.16	-0.08	
February 2012	4.6	14.74	0	0	0	19.34	0	0	0.36	0.36	4.96	19.62	2	19.7	2	0.08	0.04	
March 2013	6.44	18.08	0	0	0	24.52	0	0	3.2	3.20	9.64	27.60	3	27.72	3	0.12	0.04	
March 2012	4.76	16.00	0	0	0	20.76	0	0.00	1.36	1.36	6.12	22.08	2	22.12	2	0.04	0.02	
April 2013	5.26	14.46	0	0	0	19.72	0	0.16	1.1	1.26	6.52	20.96	2	20.98	2	0.02	0.01	
April 2012	4.26	13.86	0	0	0	18.12	0	0	0.48	0.48	4.74	18.58	2	18.6	2	0.02	0.01	
May 2013	5.64	20.16	0	0	0	25.80	0	0	3.16	3.16	8.80	29.24	3	28.96	3	-0.28	-0.09	
May 2012	2.36	16.18	0	0	0	18.54	0	0	1.54	1.54	3.90	20.12	2	20.08	2	-0.04	-0.02	
June 2013	8.86	6.98	0	0	0	15.84	0	0	3.78	3.78	12.64	19.54	2	19.62	2	0.08	0.04	
June 2012	5.56	11.18	0	0	0	16.74	0	0.12	2.02	2.14	7.7	18.9	2	18.88	2	-0.02	-0.01	
July 2013	8.54	27.84	0	0	0	36.38	0	0.16	4.8	4.96	13.50	41.28	4	41.34	4	0.06	0.02	
July 2012	4.68	11.94	0	0	0	16.62	0	0	3.28	3.28	7.96	19.86	2	19.9	2	0.04	0.02	
August 2013	15.66	34.14	0	0	0	49.80	0	0	3.8	3.80	19.46	53.52	5	53.60	5	0.08	0.02	
August 2012	6.32	22.94	0	0	0	29.26	0	0.04	2.72	2.76	9.08	32.02	3	32.02	3	0	0.00	
September 2013	6.4	11.68	0.02	0	0.06	18.16	0	0	1.54	1.54	8.02	19.82	2	19.7	2	-0.12	-0.06	
September 2012	3.82	16	0	0	0	19.82	0	0	2.62	2.62	6.44	22.4	2	22.44	2	0.04	0.02	
October 2013	9.64	21.82	0	0	0	31.46	0	0	0.6	0.6	10.24	32.08	3	32.06	3	-0.02	-0.01	
October 2012	3.24	16.46	0	0	0	19.70	0	0	1.00	1.00	4.24	20.82	2	20.7	2	-0.12	-0.06	
November 2013	9.2	11.58	0	0	0	20.78	0	0	1.44	1.44	10.64	22.08	2	22.22	2	0.14	0.07	
November 2012	7.86	18.38	0	0	0	26.24	0	0	1.48	1.48	9.34	27.98	3	27.72	3	-0.26	-0.09	
December 2013	7.36	19.9	0	0	0	27.26	0	0	1.5	1.5	8.86	28.66	3	28.76	3	0.1	0.03	
December 2012	6.84	3.74	0	0	0	10.58	0	0	0.12	0.12	6.96	10.6	1	10.7	1	0.1	0.1	
<b>Total Tonnage 2013</b>	<b>97.82</b>	<b>222.00</b>	<b>0.02</b>	<b>0.00</b>	<b>0.06</b>	<b>319.90</b>	<b>0.82</b>	<b>0.32</b>	<b>25.88</b>	<b>27.02</b>	<b>124.92</b>	<b>346.80</b>	<b>34</b>	<b>346.92</b>	<b>34</b>	<b>0.12</b>		
<b>Total Tonnage 2012</b>	<b>58.68</b>	<b>167.96</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>226.64</b>	<b>0.00</b>	<b>0.16</b>	<b>16.98</b>	<b>17.14</b>	<b>75.82</b>	<b>243.98</b>	<b>24</b>	<b>243.78</b>	<b>24</b>	<b>-0.20</b>		
<b>Grand Total</b>									<b>27.02</b>		<b>Overall Total Average Variance Per Load</b>				<b>0.00</b>			

Household Waste Deposited at An Daingean Civic Amentity Sites in 2013

Material type	Suggested EWC codes	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
<b>Mixed residual waste</b>	20 03 01													
<b>Organic waste (food and garden)</b>														
food (compost waste Milltown TS)	20 01 08													
garden (Green Waste)	20 02 01		4.42				1.14		4.08					9.64
<b>Mixed dry recyclables (Ecosence Bags)</b>	15 01 06	2.60	2.76	1.38	3.98	2.08	2.78	4.86	4.20	3.18	2.78	2.68	3.28	36.56
<b>Cardboard, newspaper and other paper</b>														
cardboard packaging	15 01 01			4.14			2.62	2.72	2.74			5.70		17.92
cardboard non-packaging	20 01 01													
paper packaging	15 01 01													
paper non-packaging	20 01 01													
newspaper and magazines	20 01 01	3.58	0.00	3.48	2.18	2.98	2.92	0.00	4.08	1.48	1.88	3.18	2.20	27.96
<b>Glass</b>														
glass packaging (bottles)	15 01 07	3.86	0.00	6.09		6.70		2.83	3.22	0.00	3.34	0.00	2.46	28.49
glass non-packaging (flat glass)	20 01 02								7.50					7.50
<b>Metals</b>														
aluminium cans (packaging)	15 01 04	0.05	0.00	0.17		0.11		0.03	0.07	0.00	0.12	0.00	0.03	0.57
steel cans (packaging)	15 01 04	0.33	0.00	0.38		0.31		0.12	0.22	0.00	0.24	0.00	0.13	1.74
other metals (scrap metals)	20 01 40		2.90			3.40		3.88		4.58		4.24	0.00	19.00
<b>Plastic</b>														
plastic packaging (bottles)	15 01 02	0.44	0.00	0.48	0.32	0.40	0.54	2.16	1.14	0.88	0.60	0.64	0.46	8.06
plastic non-packaging	20 01 39													
polystyrene														
<b>Composite packaging (e.g. tetrapaks)</b>	15 01 05													
<b>Textiles</b>														
textiles, packaging	15 01 09													
textiles, non-packaging (clothes)	20 01 11				1.14						1.42			2.56
<b>Wood</b>														
wood packaging	15 01 03													
wood non-packaging	20 01 38													
mixed, uncontaminated wood packaging and non-packaging (collected at An Daingean)	15 01 03; 20 01 38		5.70			5.38		9.44		4.90	5.50			30.92
wood, treated, hazardous	20 01 37*													
<b>Batteries</b>														
lead acid batteries and accumulators (Car Batteries)	16 06 01*	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
Ni-Cd batteries and accumulators	16 06 02*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.570
Other (e.g. alkaline) batteries and accumulators (Small Batteries)	16 06 04													0.000
<b>Household Hazardous Waste</b>														
Waste mineral oils (Engine Oil)	13 02 04	0.120										0.56		0.68
Oil filters (vehicles)	13 08 99													
Oil containers (mineral oil) - plastic + metal	13 08 99													
Waste cooking or vegetable oils	20 01 25													0.00
Waste paint and varnish (including containers)	20 01 27				0.26									0.26
Aerosols	14 06 01													0.00
<b>WEEE collected by compliance schemes</b>														
		WEEE Ireland and ERP are providing EPA with data on WEEE collected at CAS, so this tonnage does not need to be reported by local authorities for 2009.												
<b>CRT</b>	20 01 35	0.00	3.76	1.42	1.44	1.65	1.56	1.49	1.23	1.50	0.97	1.48	1.65	18.14
<b>SDA - Small Domestic Appliances</b>	20 01 36	0.00	2.35	0.86	1.07	0.00	1.23	3.22	1.34	1.10	1.70	2.11	1.94	18.32
<b>LDA - Large Domestic Appliances</b>	16 02 14	0.00	1.40	2.92	0.74	0.00	1.28	0.47	0.46	0.39	0.30	1.55	1.31	11.99
<b>Cold</b>	16 02 11	0.00	0.82	0.34	0.18	0.00	0.55	0.48	0.26	0.65	0.91	1.66	1.08	7.82
WEEE Large and Small Appliances	20 01 36	0.00	8.32	5.55	3.43	1.65	4.61	5.66	3.29	3.65	3.89	6.80	5.97	56.27
<b>Tyres</b>	16 01 03													
<b>Plasterboard (gypsum-based construction materials)</b>	17 08 02													
Bulky waste (provide summary below of waste types)	20 03 07													
<b>Household hazardous waste (medicines, pesticides etc.)</b>														
Rubble/C&D Waste (An Daingean CAS)	17 01 07								8.00					8.00
Ink Cartridges	08 01 11													0.00

## Appendix II – Environmental Monitoring Results

Parameter	Ammonium	pH	BOD (5day)	Conductivi	Chemical (	Chloride	Dissolved (	Suspende	Temperatu	Appearance	Odour					
	NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem		Physchem					
Max.	--	9	--	--	--	--	15	--	--	--	--					
Target	--	--	--	--	--	--	--	--	--	--	--					
Min.	--	6	--	--	--	--	5	--	--	--	--					
Location	Location E	Location N	Sample Re	Sample D	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	Degrees C	Descriptive	Descriptive	
SW 1	48219.3	100982.1	2012/1913	19-Apr-12		< 0.02	8.2	1.1	361	15	52	9.6	2	10.6		ND
SW 1	48219.3	100982.1	2012/4944	10-Oct-12		0.04	8	< 1	382	42	37.8	8.7	< 1			
SW 1	48219.3	100982.1	2013/1460	09-Apr-13	low flow cl	< 0.02	7.9	2.9	416	47	55.6	8.9	24	10.1	clear appearance with suspended earthy solids	N.D

Parameter	Ammonium	pH	BOD (5day)	Conductivi	Chemical (	Chloride	Dissolved (	Suspende	Temperatu	Odour					
	NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem	Physchem					
Max.	--	9	--	--	--	--	15	--	--	--					
Target	--	--	--	--	--	--	--	--	--	--					
Min.	--	6	--	--	--	--	5	--	--	--					
Location	Location E	Location N	Sample Reference	Sample Date	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	Degrees C	Descriptive	
Surface Water S1 (downstream)	48218.9	100985.4	2013/1458	09-Apr-13	Oil like film on surface appe	0.1	7	< 1	391	18	39.2	7.9	6	10.3	N.D
Surface Water S1 (downstream)	48218.9	100985.4	2013/4538	16-Oct-13		0.06	7.3	< 1	349	15		4.3	2.5	14.3	

Parameter	Ammonium	pH	BOD (5day)	Conductivi	Chemical (	Chloride	Dissolved (	Suspende	Temperatu	Appearance	Odour					
	NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem		Physchem					
Max.	--	9	--	--	--	--	15	--	--	--	--					
Target	--	--	--	--	--	--	--	--	--	--	--					
Min.	--	6	--	--	--	--	5	--	--	--	--					
Project	Location E	Location N	Sample Refe	Sample D	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	Degrees C	Descriptive	Descriptive	
Dingle	48195.3	100990.1	2013/1459	09-Apr-13	clear appe	0.22	6.7	< 1	321	28	32.1	5.4	3	9.6	clear appearance	N.D
Dingle	48195.3	100990.1	2013/1461	09-Apr-13	clear appe	0.17	7.9	< 1	314	21	31.3	5.4	1	9.6	clear appearance	N.D

## Surface Water Monitoring

Appendix III - Energy Efficiency

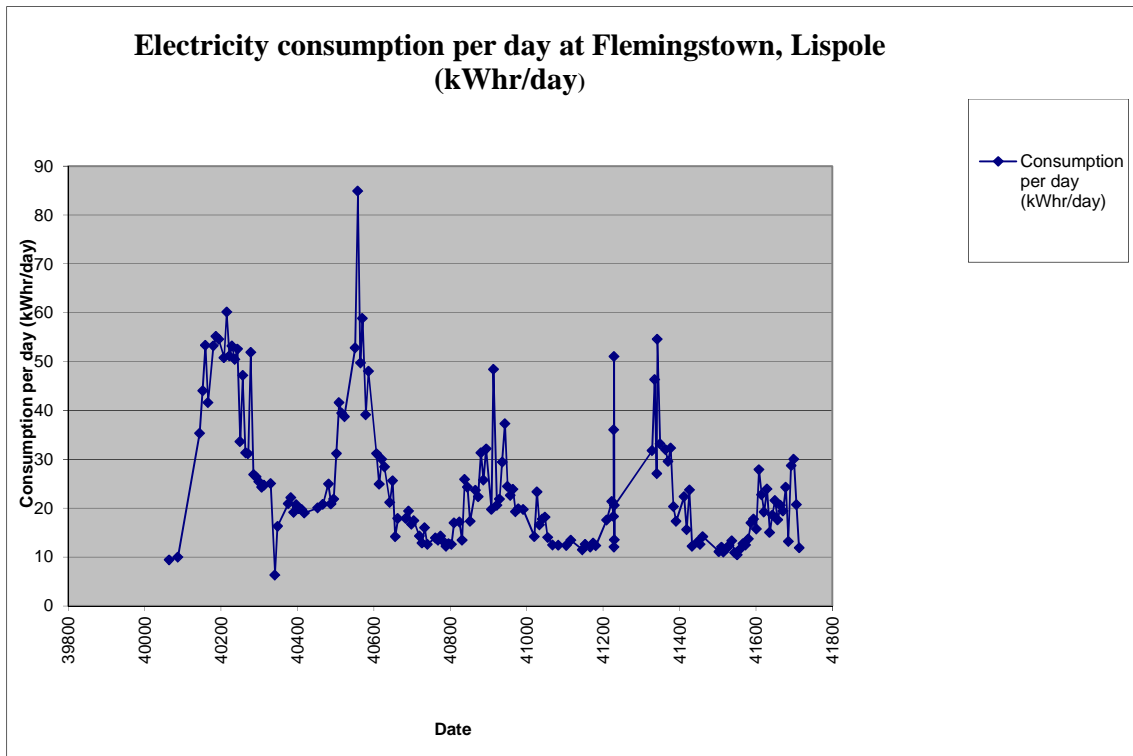
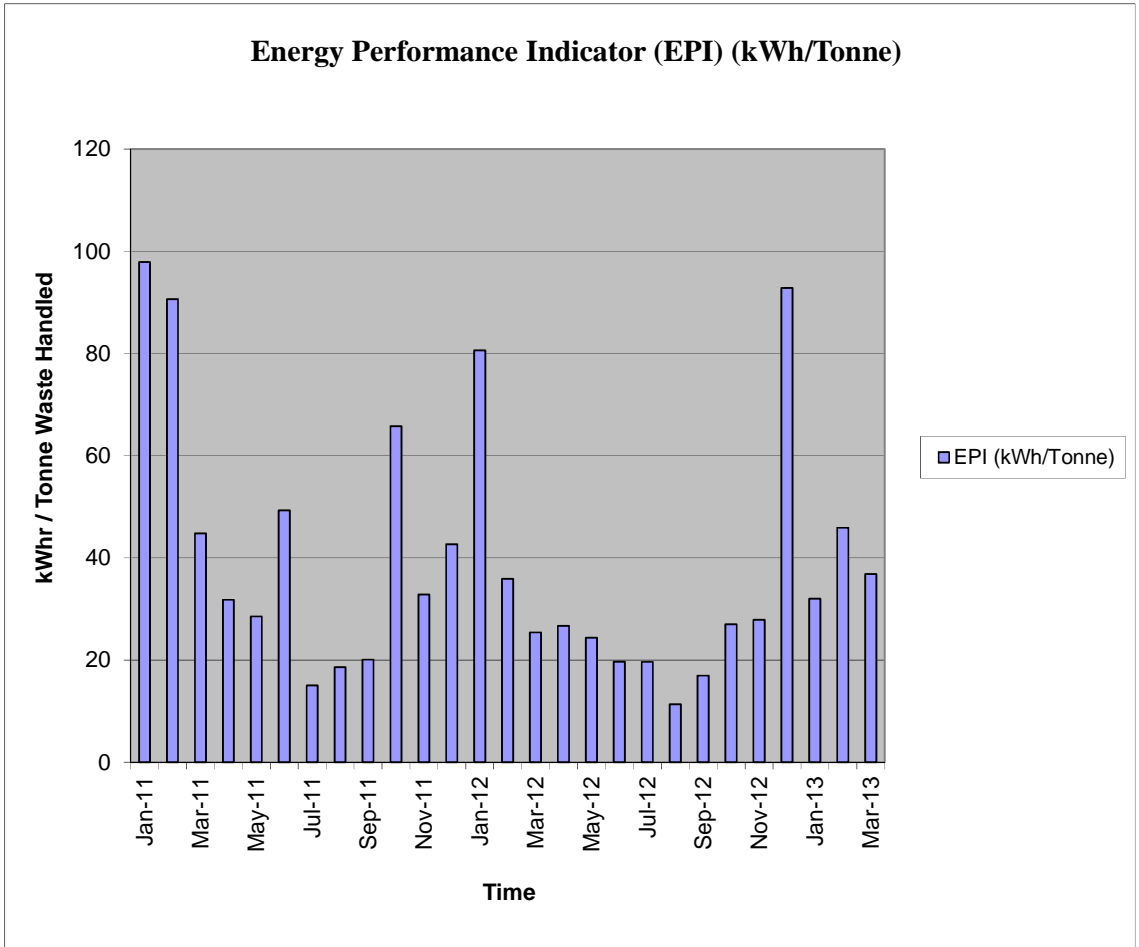


Figure 1: Electricity consumption trend.



**Figure 2: Energy Performance Indicator for Flemingstown Lispole**

Appendix IV – Dust Monitoring Results



southern scientific  
services ltd.

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

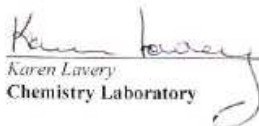
PAGE 01 | 01

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>JOHN AHERN</b>	<b>DATE SAMPLED:</b>	13 September – 13 October 2012
<b>SAMPLED BY:</b>	<b>JOHN MANNIX</b>	<b>DATE RECEIVED:</b>	22 October 2012
<b>SAMPLING PT:</b>	<b>DINGLE CIVIC AMENITY SITE</b>	<b>DATE ANALYSED:</b>	26 October – 06 November 2012
<b>ORDER NO:</b>		<b>DATE REPORTED:</b>	26 November 2012
		<b>WORK NO.:</b>	27391 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	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  
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.

(registered office)  
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directors: K. Murphy, M. Murphy & C. Murphy  
registered in ireland no 323196 | vat reg no IE 6343196 M

Appendix V – Noise Monitoring Report



Environmental Efficiency  
Consulting Engineers

Bray (Co. Wicklow) 01 276 1428  
Lisburn (Co. Antrim) 028 9262 6733

## Environmental Noise Survey 2013

at

Dingle Civic Amenity Site,  
Flemmingstown, Lispole, Co. Kerry

for

Kerry County Council

Waste licence: W0225-01

Document Number: 1492-05

---

Email: [enenv@iol.ie](mailto:enenv@iol.ie) [www.enviro-consult.com](http://www.enviro-consult.com) Registered Office as above. Registered Number 243 412  
Directors: Noel J. McGrath Robert B. Sutcliffe

Environmental Services for Industry Including –

- ▶ Air, Noise & Water Monitoring
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- ▶ Environmental Management Systems to ISO 14001
- ▶ Air & Noise Modelling
- ▶ Energy & Water use reduction
- ▶ IPPC/Waste Licence Compliance
- ▶ EIS & Planning
- ▶ Occupation Dust & Noise

Affiliations & Accreditations

- ▶ ISO14001:2004 Registration No. 2012/1427
- ▶ MCERTS Certified personnel for stack testing
- ▶ Member of Source Testing Association
- ▶ Member of Royal Society for Prevention of Accidents
- ▶ Member Water Monitoring Association
- ▶ Member Environmental Services Association
- ▶ EMPI Membership





## QF 1. v2 Document Lead Sheet

Document Title	Environmental Noise Survey 2013 at Dingle Civic Amenity Site, Flemmingstown, Lispole, Co. Kerry
Project No.	1492
Document No.	1492-05
Client	Kerry County Council
Address	Dingle Civic Amenity Site, Flemmingstown, Lispole, Co. Kerry

Issue	Status	Date	Author	Signed for and on behalf of	
				Environmental Efficiency	Client
1.00	Approved	19/12/2013	GB	<i>Bob Sutcliffe</i>	

SR04 v2.2

Where it is a requirement that this report be issued to a regulatory or other authority, then the client should sign the appropriate place in the above table and, unless specifically agreed in writing to the contrary, forward copies to the appropriate authority (e.g. EPA).

EEC Project Manager: Bob Sutcliffe, CEng, MIEI

EEC Document Author: George Byrne, MSc Biosystems Engineering

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## 1. Introduction

Kerry County Council has a Waste Licence (W0225-01) at their Civic Amenity Site at Flemmingstown, Lispole, Co. Kerry issued by the EPA. This requires that, amongst other things, a noise survey carried out in accordance to EPA Guidance Note NG4. The noise survey is required to be carried out at various specified locations in the vicinity of the site. This document reports the results of the noise survey undertaken.

## 2. Executive Summary

A noise survey to EPA NG4 was undertaken on the 12/12/2013.

Noise levels recorded are determined to be below the company's emission limit value. The site is therefore in compliant as regards noise levels. The compliance status at each location is shown in the table below.

Table 2-1 Summary of compliance

Location	NSL	Daytime
N1	No	N/A
N2	No	N/A
N3	No	N/A
N4	No	N/A

## 3. Facility Description

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.

The facility is operational between the hours of 09:00 to 17:00 Monday to Friday; the waste transfer station does not generate noise at night-time when the facility is closed.

## 4. Monitoring requirements

Noise is required to be monitored at the locations shown in the table immediately below. The noise limits applicable are also shown in the second table below. Note that noise monitoring was only carried out during periods where there was activity or equipment running on the site, refer to Table 3-1.

Table 4-1 Locations monitored

Location	Location Description	Noise sensitive location
N1	Nearest dwelling West of facility	No
N2	Nearest dwelling North of facility	No
N3	Nearest dwelling East of facility	No
N4	Nearest dwelling South of facility	Yes

Photographs of monitoring locations are shown in Appendices.

Table 4-2 Parameters monitored

	dBA	T	Frequency
Daytime	55	30	Annual
Night-time	N/A	N/A	Annual
Third Band Octave	N/A	N/A	Not required

## 5. Sampling Methodology

### 5.1 Instrumentation Used

The equipment shown in the table below was used during the noise survey. All Sound Level Meters are Type I. Due to the number of noise monitoring locations two sets of similar equipment were used. Calibration certificates for the equipment, where appropriate, are shown in the appendices.

Table 5-1: Equipment Used

Equipment	First Set			Second set		
	Model	Serial Number	Cal cert	Model	Serial Number	Cal cert
SLM	CR:811C	D21736FD	Yes	CR:811C	D21736FD	Yes
Microphone	MK: 224	20044265	Yes	MK: 224	20044265	Yes
Calibrator	CR: 511E	51431	Yes	CR: 511E	51431	Yes
Tripod	N/A	N/A	N/A	N/A	N/A	N/A
Windshield	N/A	N/A	N/A	N/A	N/A	N/A
Anemometer	Kestral	N/A	N/A	Kestral	N/A	N/A

All noise measurements were 'A' weighted and the time-weighting 'Fast' was applied (to equate to human ear hearing). Each SLM is calibrated in the field before the start of each monitoring run and again at the end of the monitoring run. Unless stated otherwise in this report, there was no discrepancy greater than 0.1 dB between the SLM reading and the calibration noise level of 93.7 dB.

The SLM used is capable of third band octave measurement. Where monitoring is during daytime or evening, a penalty is added in cases where the presence of tonal is verified. The simplified methodology for the objective identification of tones specified in Annex D of ISO 1996K2:2007(E) is used for this purpose. However as No tonal noise was subjectively noted during any of the monitoring events at the NSL, no noise recoding was taken.

### 5.2 Noise Survey Personnel

The noise survey was undertaken by Environmental Efficiency Consultants (Ire) Ltd. Staff as follows

- Lead consultant George Byrne, MSc Biosystems Engineering

### 5.3 Meteorological Conditions

Weather conditions on the day of monitoring were considered appropriate for surveying purposes and therefore did not affect the readings i.e. conditions were dry and wind speed was not greater than 5 m/s (the normal upper limit for taking measurements). The Sound Level Meter was also fitted with a windshield to minimise interference from potential meteorological conditions, in keeping with good practice. The meteorological conditions during the survey periods are shown below.



Table 5-2: Weather Conditions Day 1

	Date and time	Av. wind speed, m/s	Temp, C	Prevailing weather conditions
Start survey	12/12/2013 09:20	3.5	11.0	Mostly cloudy
Mid survey	12/12/2013 10:15	2.8	11.0	Mostly cloudy
End survey	12/12/2013 11:00	5.0	11.0	Mostly cloudy

#### 5.4 Measurement duration

The EPA specified minimum runs and survey duration are shown in the table below.

Table 5-3: Number of runs and monitoring duration

	Number of runs	NSL survey duration, (mins)	Boundary survey duration (mins)
Daytime (07:00 to 19:00)	3	90	30
Evening (19:00 to 23:00)	N/A	N/A	N/A
Night-time (23:00 to 07:00)	N/A	N/A	N/A



Figure 5-1 Site map

### 5.5 Ground attenuation

If the intervening ground between a noise source and a measurement location is acoustically absorptive, this can result in a reduction in noise level at the receptor due to absorption of sound energy by the ground itself. On contrary, if the intervening ground is acoustically reflective ground, it produces the opposite effect.

The details of the intervening ground between sources and measurement positions are described in the following table:

Table 5-4: Ground attenuation

Location	% Soft Ground	% Hard Ground	Comments
N1	90	10	N/A
N2	100	0	N/A
N3	100	0	N/A
N4	50	50	N/A

## 6. Noise Survey

The measurement parameters  $L_{Aeq,T}$ ,  $L_{AF90}$  and  $L_{AF10}$  plus the derived parameter  $L_{Ar,T}$  are tabulated below in the tables for each monitoring location. Associated particulars such as a description of the on-site noise and off-site noise noticed at each location are also provided. A graphical representation of the parameters  $L_{Aeq,T}$ ,  $L_{AF90}$  and  $L_{Ar,T}$  over each monitoring period is provided in the graphs following each table.

The derived noise parameter  $L_{Ar,T}$ , termed the Rated Noise Level, includes a penalty of 5 dBA for tonal or impulsive noise where such noise is present. This penalty is normally added to  $L_{Aeq,T}$ . Where traffic or other off site intermittent noise sources are significant, the parameter  $L_{AF90}$  may be a better descriptor of site noise and where this is the case the Rated Noise Level is equal to  $L_{AF90}$ , plus the penalty. In the tables below, where  $L_{AF90}$  is considered a better descriptor of site noise, an asterisk is appended to the measurement.

The penalty for on-site tonal noise and/or on-site impulsive noise is only applied during the daytime and evening periods. No tonal or impulsive noise is permitted during night-time; if such noise is present then this is a breach regardless of the  $L_{Aeq,T}$  or  $L_{AF90}$  noise level.

Where on site tonal is heard this is noted in the tables below in the column 'On site tonal?' In all cases where on-site tonal is heard the simplified methodology for the objective identification of tones specified in Annex D of ISO 1996K2:2007(E) is used to confirm the presence of tonal. Where on site tonal is confirmed, this is shown in the tables below in the column 'Tonal confirmed'. The third octave graphs used to confirm on site tonal are shown in the discussion section.

The column headed 'On site impulsive' states whether impulsive noise was heard by the monitoring personnel.



## 6.1 N1

Period	Run	Equipment	Date/Time	LAeq,T	LAF90	LAF10	LAFmax	On site tonal?	On site impulsive ?	Rated Noise Level, LAr,T	Description of On-site Noise Sources	Description of Off-site Noise Interference	Compliant
Daytime	1	First set	12/12/2013 09:26	74	49 *	73	93	N/A	N/A	49	Noise from facility not audible	Traffic on the N84. Wind blowing trees	N/A

## 6.2 N2

Period	Run	Equipment	Date/Time	LAeq,T	LAF90	LAF10	LAFmax	On site tonal?	On site impulsive ?	Rated Noise Level, LAr,T	Description of On-site Noise Sources	Description of Off-site Noise Interference	Compliant
Daytime	1	Second set	12/12/2013 10:05	49	39 *	58	77	N/A	N/A	39	Noise from facility not audible	Wind blowing trees. Distant traffic	N/A

## 6.3 N3

Period	Run	Equipment	Date/Time	LAeq,T	LAF90	LAF10	LAFmax	On site tonal?	On site impulsive ?	Rated Noise Level, LAr,T	Description of On-site Noise Sources	Description of Off-site Noise Interference	Compliant
Daytime	1	First set	12/12/2013 10:51	53	43 *	60	80	N/A	N/A	43	Noise from facility not audible	Traffic on the N84. Wind blowing trees	N/A

## Notes

1. Rated Noise Level is equal to  $L_{Aeq,T}$  (or  $L_{AF90}$  where this is a better descriptor) plus any adjustments for tonal or impulsive characteristics. Note that no adjustments for tonal are permitted for night-time monitoring as no tonal is permitted at night
2. Where  $L_{AF90}$  is a better descriptor of on site noise, the value is marked with an asterisk



6.4 **N4**

Period	Run	Equipment	Date/Time	L <sub>Aeq,T</sub>	L <sub>AF90</sub>	L <sub>AF10</sub>	L <sub>AFmax</sub>	On site tonal?	On site impulsive?	Rated Noise Level, L <sub>Ar,T</sub>	Description of On-site Noise Sources	Description of Off-site Noise Interference	Compliant
Daytime	1	Second set	12/12/2013 09:22	62	47 *	65	80	N/A	N/A	47	Noise from facility not audible	Traffic on the N84. Wind blowing trees	N/A

## Notes

1. Rated Noise Level is equal to L<sub>Aeq,T</sub> (or L<sub>AF90</sub> where this is a better descriptor) plus any adjustments for tonal or impulsive characteristics. Note that no adjustments for tonal are permitted for night-time monitoring as no tonal is permitted at night
2. Where L<sub>AF90</sub> is a better descriptor of on site noise, the value is marked with an asterisk

## 7. Discussion

There were no tonal or impulsive noise subjectively noted at any location.

Table 7-1 Summary of discussion

Location	Period	NSL	Tonal noise subjectively noted	Impulsive noise is subjectively noted	Noise Level breaches ELV
N1	Daytime	No	No	No	N/A
N2	Daytime	No	No	No	N/A
N3	Daytime	No	No	No	N/A
N4	Daytime	No	No	No	N/A

## 8. Conclusion

Noise levels recorded at Dingle Civic Amenity Site are deemed to be below the Exceedance Limit Value set out in the companies Waste Licence

## Appendix 1 Report Terminology

Noise Monitoring Parameters	
Survey	The measurement of noise over one or more days and is made up of a number of monitoring runs with one or more noise meters.
Run or monitoring run	A single measurement at one location to determine noise level. A number of monitoring runs will be typically be made at each location. The duration of a monitoring run is typically 15 or 30 minutes and is stipulated in the licence.
dB(A)	This is the unit used to quantify noise measurements. "dB" stands for decibel and the "A" indicates that the noise reading is A-weighted and therefore is a measurement of noise audible to the human ear. The scale is logarithmic.
$L_{Aeq,T}$	This parameter is measured on-site using a noise meter for a specified time period (T minutes). It represents the average noise level that occurred over that period.
Rated Noise Level or $L_{A,z,T}$	The Rated Noise Level is equal to $L_{Aeq,T}$ plus any penalty for confirmed tonal and/or subjective impulsive. The penalty is only added for daytime and evening monitoring.
$L_{AF10}$ and $L_{AF90}$	The $L_{AF10}$ and $L_{AF90}$ are both statistical noise levels. $L_{AF10}$ indicates that for 10% of the monitoring period, the sound levels were greater than the quoted value. $L_{AF90}$ indicates that for 90% of the monitoring period, the sound levels were greater than the quoted value. The $L_{AF90}$ indicates the background noise levels if short-term, intermittent noise sources were ignored e.g. a passing car. The $L_{AF10}$ can be used to determine the effect to which these short-term noise sources effect the overall average reading i.e. if the $L_{AF10}$ is very different to the $L_{AF90}$ , then intermittent noise is a significant source of noise
Continuous	Noise produced without interruption.
Impulsive Noise	A noise of short duration (typically less than one second), the sound pressure of which is significantly higher than the background; brief and abrupt
Intermittent Noise	Noise produced on discontinuous basis e.g. equipment operating in cycles or events such as single passing vehicle or aircraft.
Tonal Noise	Noise, which contains a clearly audible, tone i.e. a distinguishable, discrete or continuous note (whine, hum, drone, screech, etc.).



Appendix 2 Certificates of Calibration CR:811B

**NSAI**  
National Metrology Laboratory

### Certificate of Calibration

Issued to: Environmental Efficiency Consultants Ireland Ltd.  
Parnell House, 19 Quinsboro  
Bray  
Co. Wicklow

Attention of: Mr. Ronan Sutcliffe

---

Certificate Number: E13353B  
Item Calibrated: Cirrus CR:511E Acoustic Calibrator  
Serial Number: 035066  
Client ID Number: LEN 003  
Order Number: LSP01449  
Date Received: 30 Jul 2013  
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 Digital Multimeter, File No. 0736 [Cal due: 10 Jul 2014]  
B & K 4134 Measuring Microphone, File No. 0743 [Cal due: 17 Apr 2014]  
B & K 4228 Pistonphone, File No. 0740 [Cal due: 08 Aug 2014]

---

Calibrated by: *Sam Boles*  
Sam Boles *SB*

Approved by: *P. Hetherington*  
Paul Hetherington

Date of Calibration: 07 Aug 2013

Date of Issue: 12 Aug 2013

This certificate is consistent with Calibration and Measurement Capabilities (CMCs) 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))

---

Glasnevin | Ballsbridge | Clontarf | Dublin 11 | Ireland  
T: +353 1 809 2000 | F: +353 1 809 2600 | [www.nml.ie](http://www.nml.ie)

Page 1 of 3



# NSAI

National Metrology Laboratory

## Certificate of Calibration

<b>Issued to</b>	Environmental Efficiency Consultants Ireland Ltd. Parnell House, 19 Quinsboro Bray Co. Wicklow
<b>Attention of</b>	Mr. Ronan Sutcliffe
<b>Certificate Number</b>	E13353A
<b>Item Calibrated</b>	Cirrus CR-811B Sound Level Meter, complete with Cirrus Type CR-MV200C Pre-amplifier and Cirrus Type UK 224 Microphone
<b>Serial Numbers</b>	C16569FD (Sound Level Meter), 2533 (Pre-amplifier) and 20041382 (Microphone)
<b>Client ID Number</b>	LEN 002 (Sound Level Meter)
<b>Order Number</b>	LSP01448
<b>Date Received</b>	30 Jul 2013
<b>NML Procedure Number</b>	AP-NM-09
<b>Method</b>	The above sound level meter was allowed to stabilise for a suitable period in laboratory conditions. It was then calibrated by carrying out the verification tests detailed in IEC 61672-3 (2006), <i>Periodic tests, specification for the verification of sound level meters</i> . This standard specifies a procedure for the periodic verification of conformance of a sound level meter or integrating-averaging meter to IEC 61672-1 (2003)
<b>Calibration Standards</b>	Norsonic 1504A Calibration System incorporating: SR DS350 Signal Generator, No. 0735, [Cal. Due Date: 16 Jul 2014] 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]

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<b>Calibrated by</b>	<i>Sam Boles</i> Sam Boles	<b>Approved by</b>	<i>P. Hetherington</i> Paul Hetherington
<b>Date of Calibration</b>	12 Aug 2013	<b>Date of Issue</b>	12 Aug 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))

Glasnevin | Bally Alpha Clonh | Drogheda  
Glasnevin | Dublin 11 | Ireland | T: 353 1 808 0880 | F: 353 1 808 0000 | [nsai.ie](http://nsai.ie)
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## Appendix 3 Certificates of Calibration CR:811C

## Certificate of Calibration



## Equipment Details

Instrument Manufacturer Cirrus Research plc  
 Instrument Type CR:515  
 Description Acoustic Calibrator  
 Serial Number 51431

## Calibration Procedure

The acoustic calibrator detailed above has been calibrated to the published data as described in the operating manual. The procedures and techniques used to follow the recommendations of the IEC standard Electroacoustics – Sound Calibrators IEC 60942:2003, IEC 60942:1997, BS EN 60942:1998 and BS EN 60942:2003 where applicable. The calibrator's main output is 94.00 dB (1 Pa) and this was set within the 0.01 dB resolution of the test system, i.e. one hundredth of a decibel. Numbers in (parenthesis) refer to the paragraph in IEC 60942.

## Calibration Traceability

The calibrator above was calibrated against the calibration laboratory standards held by Cirrus Research plc. These are traceable to International Standards (A.0.6). The standards are:

Microphone Type	B&K4180	Serial Number	1893453	Calibration Ref.	S 6009
Pistonphone Type	B&K4220	Serial Number	613843	Calibration Ref.	S 5964

## Calibration Climate Conditions

The climatic test conditions were all maintained within the permitted limits of IEC 60942:1997.

Temperature	(B.3.2)	Permitted band	15°C to 25°C
Humidity	(B.3.2)	Permitted band	30% to 90% RH
Static Pressure	(B.3.2)	Permitted band	85 kPa to 105 kPa
Ambient Noise Level	(B.3.3.6)	Max permitted level	64 dB(Z)

## Measurement Results

The figures below are the Calibration Laboratory test limits for this model calibrator and have a smaller tolerance than those permitted in IEC 60942.

94 dB Output	94.00 dB	Permitted band	93.95 to 94.05dB
104 dB Output	dB	Permitted band	103.80 to 104.30dB
Frequency	1000 Hz	Permitted band	990 to 1010Hz

## Uncertainty

With an uncertainty coefficient of  $k=2$ , i.e. a 95% confidence level, the uncertainty of each measure is

94 dB Output	$\pm 0.13$ dB	104 dB Output	$\pm 0.14$ dB
Frequency	$\pm 0.1$ Hz	Level Stability	$\pm 0.04$ dB

Calibrated by

Calibration Date

30 October 2013

Calibration Certificate Number

212008

This Calibration Certificate is valid for 12 months from the date above.

Cirrus Research plc, Acoustic House, Bridlington Road, Hurnaby, North Yorkshire, YO14 0PH  
 Telephone: +44 (0) 1723 891653 Fax: +44 (0) 1723 891742  
 Email: sales@cirrusresearch.co.uk



## Certificate of Calibration



### Equipment Details

Instrument Manufacturer: Cirrus Research plc  
 Instrument Type: CR-811C  
 Description: Sound Level Meter  
 Serial Number: D21736FD

### Calibration Procedure

The instrument detailed above has been calibrated to the published test and calibration data as detailed in the instrument hand book, using the techniques recommended in the latest revisions of the International Standards IEC 61672-1:2002, IEC 60651-1:1979, IEC 60804:2001, IEC 61260-1:1995, IEC 60942:1997, IEC 61252:1993, ANSI S1.4-1983, ANSI S1.11-1986 and ANSI S1.43-1997 where applicable.

Sound Level Meters: All Calibration procedures were carried out by substituting the microphone capsule with a suitable electrical signal, apart from the final acoustic calibration.

### Calibration Traceability

The equipment detailed above was calibrated against the calibration laboratory standards held by Cirrus Research plc. These are traceable to International Standards (A.3.6). The standards are:

Microphone Type	B&K4180	Serial Number	1893453	Calibration Ref.	S 6009
Pistonphone Type	B&K4220	Serial Number	613843	Calibration Ref.	S 5964

Calibrated by:

Calibration Date

30 October 2013

Calibration Certificate Number

212009

This Calibration Certificate is valid for 12 months from the date above.

Cirrus Research plc, Acoustic House, Bridlington Road, Hamunby, North Yorkshire, YO14 0PH  
 Telephone: +44 (0) 1723 891655 Fax: +44 (0) 1723 891742  
 Email: sales@cirrusresearch.co.uk

Appendix 4 Photographs of Monitoring Locations:



Figure 8-1 N1



Figure 8-2 N2



Figure 8-3 N3



Figure 8-4 N4

## Appendix VI – PRTR Return for 2013



| PRTR# : W0225 | Facility Name : Dingle Civic Amenity Centre | Filename : W0225\_2013.xlsm | Return Year : 2013 |

[Guidance to completing the PRTR workbook](#)

# AER Returns Workbook

Version 1.1.17

<b>REFERENCE YEAR</b>	2013
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### 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	
	Kerry
Country	Ireland
Coordinates of Location	-10.2181 52.1409
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	0667162020
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	0
Number of Employees	1
User Feedback/Comments	Changed 130204 to 130703 to coincide with ENVA records, changed destination to KS Recycling Sonsbeck, Revoery type to R1 +0.13t 140601 deleted 150101 +0.66t 150102 +3.54t 150104 +1.15t destination changed to Dillon Waste 150106 +4.22t 150107 +14.63t destination changed to Dillon Waste 160211 +3.62t 160214 +2.49t 170107 +0.66t 200101 +0.4t 200102 +3.18t 200201 +5.04t 200111 -0.66t 200127 changed to R1 200135 +4.08t 200136 +5.38t 200138 +9.38t 200140 +5t destination changed to United Metals 200301 +103.14t increase usage of site.
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)?	
---	--

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility	Haz Waste : Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility	Name and License / Permit No. and Address of Final Recycler / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used		Non	Non-Haz Waste: Address of Recover/Disposer			
To Other Countries	13 07 03	Yes	0.68	other fuels (including mixtures)	R1	M	Weighed	Abroad	Enva,W0184-01		Clonminam Industrial Estate ,,Portlaoise,County Laois,Ireland	KS Recycling,12 150 80 80,Raiffeisenstr 38,Sonsbeck,,,,Germany	Raiffeisenstr 38,Sonsbeck,,,,Germany
Within the Country	15 01 01	No	17.92	cardboard packaging	R3	M	Weighed	Offsite in Ireland	Greenstar,WFP-CK-10-0047-02		Sarsfield Court Industrial estate ,,Glanmire,County Cork,Ireland		
Within the Country	15 01 02	No	8.06	plastic packaging	R3	M	Weighed	Offsite in Ireland	Dillon waste Ltd,WFP/KY/10/0001/01		The Kerries,,,Tralee,County Kerry,Ireland		
Within the Country	15 01 04	No	2.31	metallic packaging	R4	M	Weighed	Offsite in Ireland	Dillon waste Ltd,WFP/KY/10/0001/01		The Kerries,,,Tralee,County Kerry,Ireland		
Within the Country	15 01 06	No	36.56	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	28.49	glass packaging	R5	M	Weighed	Offsite in Ireland	Dillon waste Ltd,WFP/KY/10/0001/01		The Kerries,,,Tralee,County Kerry,Ireland		
To Other Countries	16 02 11	Yes	7.82	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	11.99	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	8.0	01 06	R5	M	Weighed	Offsite in Ireland	Higgins Waste,WFP/KY/50/04/2009		The Kerries,,,Tralee,County Kerry,Ireland		
Within the Country	20 01 01	No	27.96	Newspaper and pams	R3	M	Weighed	Offsite in Ireland	Dillon waste Ltd,WFP/KY/10/0001/01		The Kerries,,,Tralee,County Kerry,Ireland		
Within the Country	20 01 02	No	7.5	glass	R4	M	Weighed	Offsite in Ireland	Higgins Waste,WFP/KY/50/04/2009		The Kerries,,,Tralee,County Kerry,Ireland		
Within the Country	20 01 08	No	9.64	Green Waste	R3	M	Weighed	Offsite in Ireland	Higgins Waste,WFP/KY/50/04/2009		The Kerries,,,Tralee,County Kerry,Ireland		
Within the Country	20 01 11	No	2.56	textiles	R3	M	Weighed	Offsite in Ireland	Textile Recycling Ltd,WPR-014/2		Road,,,Tallaght,Dublin 4,Ireland		
To Other Countries	20 01 27	Yes	0.26	paint, inks, adhesives and resins containing dangerous substances	R1	M	Weighed	Abroad	Enva,W0184-01		Clonminam Industrial Estate ,,Portlaoise,County Laois,Ireland	Nehlsen GmbH & Co. kg,A-4187 HH,Louis-Krages-Strasse,,Bremen,D-28237,Germany	Louis-Krages-Strasse,, Bremen,D-28237,Germany
To Other Countries	20 01 34	No	0.57	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	18.14	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	18.32	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	30.92	wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	Higgins Waste,WFP/KY/50/04/2009		The Kerries,,,Tralee,County Kerry,Ireland		
Within the Country	20 01 40	No	19.0	metals	R4	M	Weighed	Offsite in Ireland	United Metals,WFP-LK-2013-147A-R1		Pk Ballysimon Rod,Limerick,,,Ireland		
<b>Within the Country</b>	<b>20 03 01</b>	<b>No</b>	<b>346.92</b>	<b>mixed municipal waste</b>	<b>D5</b>	<b>M</b>	<b>Weighed</b>	<b>Offsite in Ireland</b>	<b>North Kerry Landfill,W001-04</b>		<b>unity Kerry,Ireland</b>		