Kerry County Council

Waste Licence Ref No. W0086-01

REPORT TITLE

Kenmare Transfer Station
Annual Environmental Report

Reporting Period:

January – December 2012

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

March 2013

1.0 Introduction

Kerry County Council operates a waste transfer and recycling facility located in the townland of Claddanure West, approximately 1 km off the main Killarney/Kenmare Road, approximately 4.7 km north west of the town of Kenmare, Co. Kerry. The site is located at the western end of the county road L782.

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

Other activities include the recycling or reclamation of inorganic materials including metals, glass, steel and aluminium cans, car batteries, dry cell batteries, fluorescent tubes, domestic hazardous waste, cardboard, plastic bottles and newspapers. Small quantities of organic waste are also collected for transfer to North Kerry Landfill for composting.

This Annual Environment Report is prepared in accordance with Condition 2.8 and Schedule B of Waste Licence W0086-01 issued by the Environmental Protection Agency (EPA).

2.0 Reporting Period

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

3.0 Waste Activities Carried out at the Facility

Waste disposal activities carried out at Kenmare Transfer Station are in accordance with Part 1 of Waste Licence W0086-01 which outlines the waste disposal activities licensed in accordance with the Third Schedule of the Waste Management Act 1996.

Licensed activities include:

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

Class 13 Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.

Waste recovery activities carried out at Kenmare Transfer Station are in accordance with Part 1 of Waste Licence W0086-01 which outlines the waste recovery activities licensed in accordance with the Fourth Schedule of the Waste Management Act 1996. Licensed activities include:

Class 1 Solvent reclamation or regeneration.

Class 2 Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).

Class 3 Recycling or reclamation of metals and metal compounds.

Class 4 Recycling or reclamation of other inorganic materials.

Class 13 Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.

4.0 Quantity and Composition of Waste Received, Disposed and Recovered: 1st Jan – 31st Dec 2012

Waste tonnage disposed of at Kenmare Transfer Station during the reporting year (2012) decreased by 18% on the previous year (2011). This is primarily due the selling of Kerry County Council's Refuse Collection Service in November 2011 (102.60 tonnes) and there has also been a 7% (223.82 tonnes) reduction in the quantity of waste being disposed of by members of the public, this is due to the economic downturn.

The weight of the waste accepted into Kenmare Transfer Station Facility for disposal for the reporting period was 903.98 Tonnes. This comprises of the following breakdown:

Waste for Disposal	***2012***
Municipal waste collected by Local Authority & Private Contractors	0
Commercial & Industrial	213.84
Road Sweepings & Graveyard Waste	4.5
Flytipping	32.22
Public Domestic	671.94
Total for Disposal	**904.14**

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

It is expected that waste disposal rates and recycling/recovery rates at Kenmare Transfer Station will continue to decrease in the next reporting period mainly due to the weak economic environment and the increasingly competitive waste industry.

6.0 Summary Report on Emissions for the Reporting Period

a) Foul Water Emissions

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

The foul water discharge is monitored quarterly. The results are sent to the EPA and are also available at the Kenmare facility.

b) Surface Water Emissions

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

c) Waste from Silt Traps and Interceptors

A total of 4.24 Tonnes of silt/sludge and wastewater was removed from the silt traps/oil interceptors and foul waste water treatment unit during the reporting period and disposed of at Kenmare Wastewater Treatment Plant.

7.0 Summary of Results and Interpretations of Environmental Monitoring

a) Dust monitoring

Dust Monitoring was carried out at the facility at Stations 1-5 in October/November 2012. The dust monitoring results for the reporting period were within the dust deposition limits specified in the waste licence. There were no issues with dust during 2012 and no complaints were received in relation to dust at the facility.

b) Noise monitoring.

An analysis of the results, combined with on site observations indicates that the Kenmare Waste Transfer Station is not a noise nuisance and complies with the noise limit criteria set out in the waste licence.

The main contributing noise sources off site at the nearest dwelling in particular were not associated with the waste transfer station. The background noise level ranged from 26 to 36 L90dB(A) which demonstrates the quiet rural nature of the area. The measured noise level of LAeq 44dB and LAeq 46 dB is significantly below the noise limit of 55db(A) at the nearest noise sensitive location.

Tones detected by the sound level meter can be attributed to the cardboard compactor and tipping shed motor. No tones were detected off site.

c) Monitoring of surface water.

Impact was noted judging from Ammonia levels at SW1 and SW3.However it is more probable that impact at this point is from old landfill activities rather than Transfer station.

An investigation into impact on groundwater from closed landfills, including Kenmare, is also currently underway.

The closest EPA monitoring point downstream of here i.e. Salaheen Bridge on Finnihy has consistently shown a Q value of 4 (***up to 2009)***, i.e. water of good quality, unchanged from upstream point. However an invertebrate study by KCC staff in September 2012 has shown deterioration at this site to ***Q 3*** i.e. moderately polluted. Further investigation indicates that source of pollution seems to be emanating from a small tributary which flows into Finnihy upstream of Salaheen. This tributary however is not in main catchment of landfill activities. Present indications seem to point to source as coming from a farm, which is at present been investigated.

As can be seen from results of discharge point from Transfer station an effluent of acceptable quality is indicated.

d) Foul Water

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

e) Landfill gas

The levels of methane gas and carbon dioxide recorded have reduced significantly (2012 average **CH_4** – 0.5% v/v & **CO_2 –** 2.45% v/v) compared to 2008 and 2009. The landfill gas monitoring results are attached in Appendix III.

8.0 Resource and Energy Consumption Summary

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

8.1 Diesel

The diesel usage for Kenmare Transfer Station for the reporting period 2012 was 700 litres. The primary usage of diesel is for the rubber tyred excavator on site, waste compactor and the oil burner in the steam washer.

8.2 Electricity

The electricity usage for the facility during the reporting period was 4,379 kilowatt hours.

Power is required for the office computer and lighting, weighbridge, waste compactor, storage heating, water pumping, cardboard baler and public lighting on the site.

8.3 Water

Water supply is from a groundwater borehole on site. While water consumption is not metered the estimated usage for the facility during the reporting period was 110,000 litres. Water is mainly used on site for power washing yards, office toilets and sinks, transfer station apron/hopper and washing of trucks and bins when required.

9.0 Report on Development Works Undertaken during the Reporting Period

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

10.0 Timescale for Proposed Development Works For Forthcoming Year

No development works are proposed at the facility for 2013.

11.0 Schedule of Environmental Objectives and Targets for the Forthcoming Year

Target Area	*Objective*	*Works Required*
Surface Water Emissions	Keep Surface Water Emissions within agreed limits	Regular inspection of surface water drains. Regular monitoring of results from Surface Water Monitoring Points.
Litter – On public roads to facility	Reduction in the number of bags of waste/litter lost from trailers on the way to the facility	Regular inspections and clean up of approach roads. Quick response to clean up any reported waste on the approach roads to the facility
Energy Resources	Reduce the quantity of diesel and electricity used on site	Avail of night rate tariffs for electricity
Waste Records		Introduction of new computer system on site to record waste transactions with connection to KCC network

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

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

13.0 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

14.0 Reported Incidents and Complaints

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

15.0 Report on Financial Provision

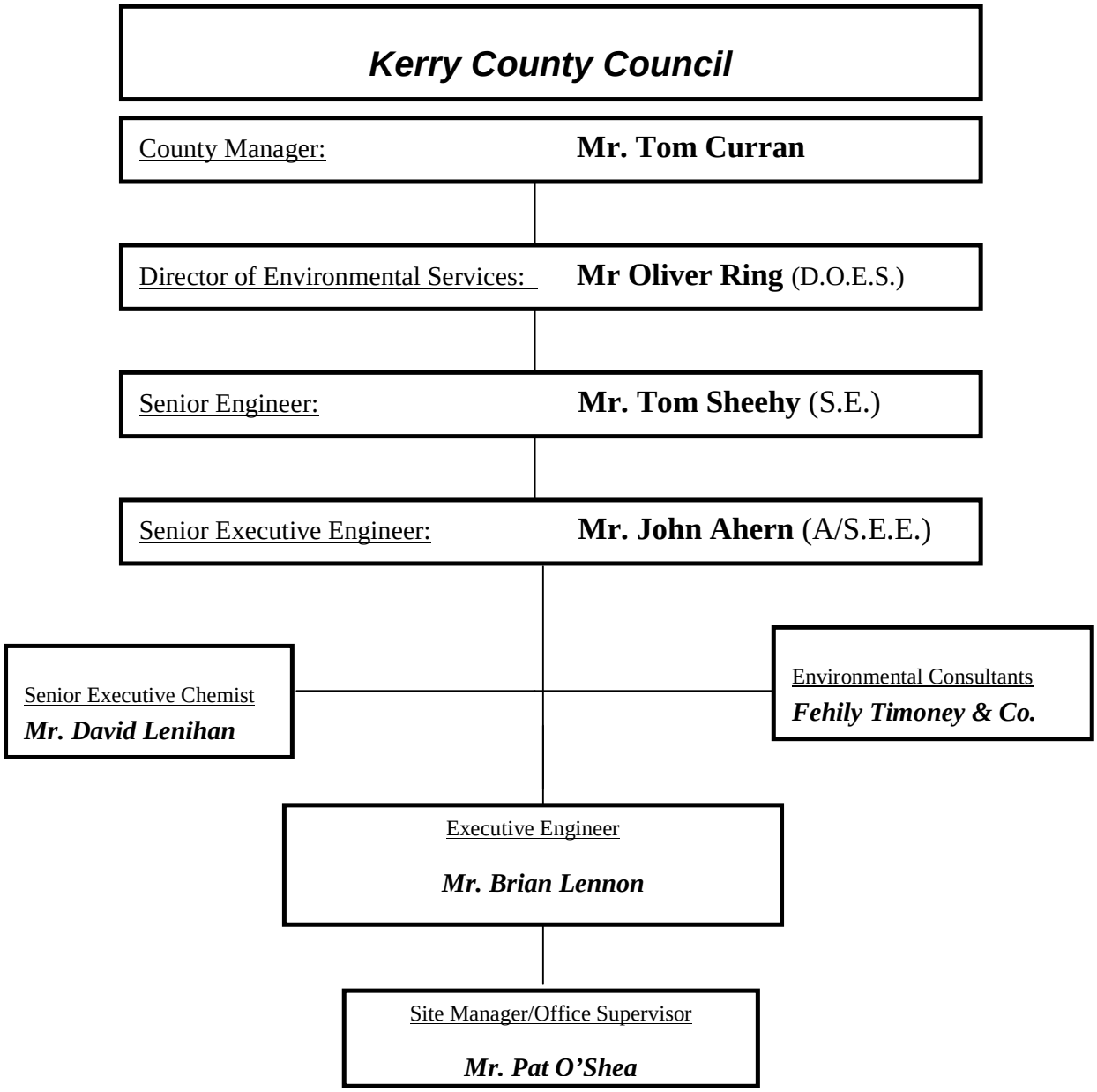
a) Statement of Costs for Waste Operations at Facility

Accelem	Accelem(T)	Total Charge Euro
60030	Wages	31,009.67
60040	Salaries	8,170.19
60100	ER PRSI	5,741.55
60200	Overtime	11,970.34
60400	Sick Pay	536.60
60500	Annual Leave	2,481.77
60510	Bank Holiday Leave	939.05
60600	Travel/ Subsistence	3,235.56
61990	Other Allowances	1,628.46
65500	Minor Contracts- Trade Services & other works	25,027.10
65965	Transfer to/ from Cap/ Rev (Exp)	0.00
69000	Hire (Ext) - Plant/ Transport/ Machinery & Equipment	210.00
69200	Repairs & Maint - Plant	1,104.21
69250	Repairs & Maint -Computer Equip	0.00
69400	Transfers from Machinery Yard	7,292.50
69600	Other Vehicle Expenses	95.00
70000	Materials	429.88
70990	Issues from Stores	7,317.37
70991	Returns to Stores	-86.57
71000	Insurance	146.75
73400	Staff Travelling & Subsistence Expenses	2,313.08
75000	Computer Software and Maintenance Fees	86.00
76000	Communication Expenses	250.08
77100	Courier	16.95
77200	Security - Property	105.00
78000	Training	37.65
79900	Consultancy/ Professional Fees and Expenses	296.80
80000	Advertising	0.00
81000	Printing & Office Consumables	16.90
82100	Statutory Contributions to Other Bodies	7,973.15
85100	Rates & Other LA Charges	81.84
86000	Energy	1,533.49
	Total Operational Waste Cost 2012	**119,960.37**

b) Statement of Costs for Recycling Operations at Facility

Accelem	Accelem(T)	Total Charge Euro
60030	Wages	4,698.37
60040	Salaries	2,350.20
60100	ER PRSI	1,137.75
60200	Overtime	1,970.63
60400	Sick Pay	268.30
60500	Annual Leave	1,324.73
60510	Bank Holiday Leave	268.30
60600	Travel/ Subsistence	479.85
61990	Other Allowances	283.86
65500	Minor Contracts- Trade Services & other works	2,615.94
67500	Non-Capital Equip Purchase - Computers	-263.76
69200	Repairs & Maint - Plant	95.15
69250	Repairs & Maint -Computer Equip	0.00
70000	Materials	144.00
70990	Issues from Stores	0.00
73400	Staff Travelling & Subsistence Expenses	1,254.65
76000	Communication Expenses	84.42
77200	Security - Property	90.00
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	3,417.07
85100	Rates & Other LA Charges	6.16
86000	Energy	174.93
	Operational Recycling Cost 2012	**20,527.75**

16.0 Management and Staffing Structure at Facility 2012



17.0 Programme of Public Information

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

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

Appendix I - Waste Collected at Kenmare Transfer Station and Recovered/Recycled offsite during reporting period

	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 & Streetcleaning	Graveyard Waste	Clean Ups / F'tipping	Total Non - levied	Total of Waste Over Weighbridge
January 2012	**0**	**0**	**27.02**	**0**	**35.8**	**15.82**	**0**	**0**	**78.64**	**0**	**0**	**1.02**	**1.02**	**43.86**
January 2011	6.30	0	31.02	0.12	39.88	15.32	0	1.16	93.80	0	0	1.74	1.74	55.66
February 2012	**0.00**	**0**	**20.6**	**0**	**34.72**	**13**	**0**	**3.46**	**71.78**	**0**	**0**	**3.82**	**3.82**	**40.88**
February 2011	7.3	0	21.26	0	36.94	20.26	0	0.88	86.64	0	0	0.88	0.88	50.58
March 2012	**0**	**0**	**20.38**	**0**	**34.54**	**8.52**	**0**	**0.00**	**63.44**	**0.3**	**0**	**1.48**	**1.78**	**30.68**
March 2011	6.88	0	21.72	0	27.82	19.24	0	1.1	76.76	0	0	4.26	4.26	53.20
April 2012	**0**	**0**	**18.02**	**0.18**	**41.22**	**18.22**	**0**	**0**	**77.64**	**0**	**0**	**2.4**	**2.4**	**38.82**
April 2011	16.34	0	27.14	0	47.36	21.24	0	3.62	115.7	0	0	3.26	3.26	71.6
May 2012	**0**	**0**	**20.54**	**4.92**	**37.42**	**14.86**	**0**	**0.9**	**78.64**	**0**	**0**	**0.72**	**0.72**	**41.94**
May 2011	12.24	0	20	2.6	32.98	20.34	0	0.14	88.30	0	0	1.42	1.42	56.74
June 2012	**0**	**0**	**18.04**	**3.86**	**37.16**	**15.4**	**0**	**3.76**	**78.22**	**0**	**2.08**	**0.48**	**2.56**	**43.62**
June 2011	12.98	0	22.68	0.08	36	22.3	0	1.08	95.12	0	0	0.94	0.94	60.06
July 2012	**0**	**0**	**20.48**	**3.06**	**45.76**	**17.6**	**0**	**0.78**	**87.68**	**0**	**0**	**1.52**	**1.52**	**43.44**
July 2011	7.8	0	29.58	0	41.44	25.02	0	2.98	106.82	0	0	1.48	1.48	66.86
August 2012	**0**	**0**	**20.7**	**2.24**	**33.62**	**25.08**	**0**	**0**	**81.64**	**2.12**	**0**	**0.78**	**2.9**	**50.92**
August 2011	12.18	0	25.48	0	44.00	26.5	0	1.78	109.94	4.3	0	1.34	5.64	71.58
September 2012	**0**	**0**	**17.84**	**2.86**	**35.24**	**17.96**	**1.48**	**0.34**	**75.72**	**0**	**0**	**0.48**	**0.48**	**40.96**
September 2011	6.62	0	23.32	0	43.22	14.54	0	4.76	92.46	0	0	1.66	1.66	50.9
October 2012	**0.00**	**0**	**12.84**	**0**	**38.56**	**15.6**	**0.22**	**0**	**67.22**	**0**	**0**	**0.1**	**0.1**	**28.76**
October 2011	5.9	0	22.32	0	21.38	15.82	0	1.18	66.60	0	0	0.82	0.82	46.04
November 2012	**0**	**0**	**11.62**	**0.1**	**34.16**	**13.72**	**0**	**3.36**	**62.96**	**0**	**0**	**0.84**	**0.84**	**29.64**
November 2011	8.06	0	20.38	0	31.54	19.52	0	0.28	79.78	0	0	0.32	0.32	48.56
December 2012	**0**	**0**	**9.16**	**0**	**46.5**	**6.54**	**0.00**	**0**	**62.20**	**0**	**0.00**	**0.22**	**0.22**	**15.92**
December 2011	0	0	16.34	0	36.92	10.12	0	0	63.38	0	1	0.86	1.86	28.32
Total Tonnage 2012	**0.00**	**0.00**	**217.24**	**17.22**	**454.70**	**182.32**	**1.70**	**12.60**	**885.78**	**2.42**	**2.08**	**13.86**	**18.36**	**449.44**
Total Tonnage 2011	**102.60**	**0.00**	**281.24**	**2.80**	**439.48**	**230.22**	**0.00**	**18.96**	**1075.30**	**4.30**	**1.00**	**18.98**	**24.28**	**660.10**

Appendix II - Results of Foul and Surface Water Monitoring

Attn: Tara O'Carroll EE Waste Management 12 March 2013
Re: LABORATORY Results for Kenmare Transfer stations : to Dec 2012

Enclosed are results (2003 – Dec 2012) of monitoring of designated Surface water points and Foul emission point sampled as set out in EPA licence conditions for ***KENMARE Transfer station*** The latest results are for July – Dec2012.
Refer also to ***app 1: details of sample locations***

As in previous reports impact was noted judging from Ammonia levels at SW1 and SW3.However it is more probable that impact at this point is from old landfill activities rather than Transfer station.
An investigation into impact on groundwater from closed landfills, including Kenmare, is also currently underway. We intend to submit a report on this before July 2013.

The closest EPA monitoring point downstream of here i.e. Salaheen Bridge on Finnihy has consistently shown a Q value of 4 (***up to 2009)***, i.e. water of good quality, unchanged from upstream point. However an invertebrate study by KCC staff in September 2012 has shown deterioration at this site to ***Q 3*** i.e. moderately polluted. Further investigation indicates that source of pollution seems to be emanating from a small tributary which flows into Finnihy upstream of Salaheen. This tributary however is not in main catchment of landfill activities. Present indications seem to point to source as coming from a farm, which is at present been investigated. A copy of this study is appended to this report ***App 2 invertebrate report on Finnihy River***
As can be seen from results of discharge point from Transfer station an effluent of acceptable quality is indicated.

David Lenihan MSc
Senior Executive Chemist

Appendix1: Details Sampling points referred to in report

Location	comments	old or alternative name	Location Easting	Location Northing
Surface water				
Off site sampling pts				
SW-2	Site at stream u/s of old landfill		88309	73232
SW-1	Site on stream d/s of SW2 just u/s of road		88320	73367
SW-3	Downstream of SW2 and landfill		88301	73462
Sw-4	Site on trib of Finnihy U/S of stream from landfill/transfer station		88281	73962
Sw-5	Site on trib of Finnihy D/S of stream from landfill/transfer station		88599	73986
Leachate				
Outlet from treatment plant				
SE 1			88375.1	73303.8

App 2

Invertebrate Monitoring Report on Finnihy River Dec 20th, 2012

Introduction:

Due to on-going concerns of ammonium spikes at Kenmare Transfer Station surface water sites, biological monitoring was requested on the Finnihy River at Sahaleen Bridge. This was to determine the overall quality of the river downstream of the transfer station. The Finnihy was also sampled upstream at Geran Bridge and between Geran Bridge and Sahaleen Bridge at N of Reenacallee. A tributary which enters the river Finnihy upstream of Sahaleen was sampled at two points downstream of Kenmare Transfer Station (SE Reenacallee) and upstream of confluence. (See map for sample site locations.)

Biological Q Rating:

The samples were classified using the Biological Quality Rating System for Rivers (Q Rating System) as outlined by the Environmental Protection Agency (EPA). The Biological Quality Rating System for Rivers (Q ratings) goes from Q1 to Q5 where a Q5 denotes a pristine river and Q1 indicates serious pollution. From the point of view of the Water Framework Directive all rivers and streams must be at least Good status i.e. Q4. High status river stations are not allowed to deteriorate. There are different classifications for depositing and eroding substrates. The Q system is aimed particularly at larger streams and rivers and is carried out between May and September. Three-minute kick samples are carried out at each station accompanied by stone examinations and weed sweeps. The abundance chart is shown in Appendix 1.

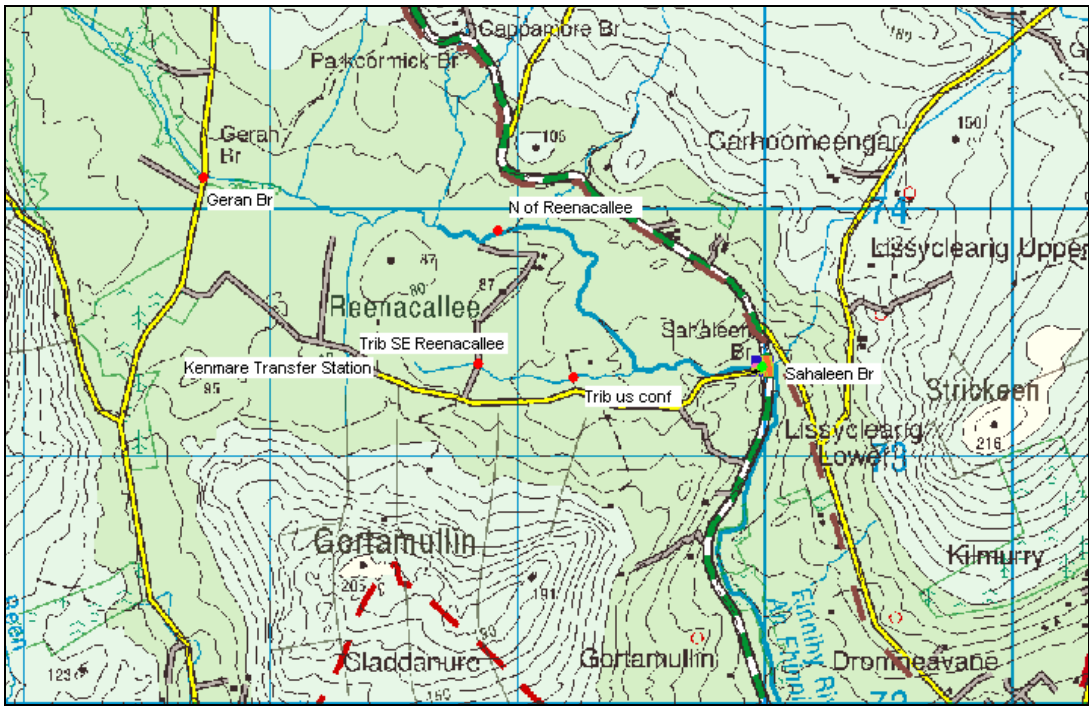
Discussion:

In September 2012 a biological assessment was carried out at Sahaleen Bridge and a Q rating of 3(moderate pollution) obtained. There is an absence of A group Ephemeroptera and Plecoptera. This result represents a drop from a Q 4 (unpolluted) at this site in an EPA survey of 2005. As a result of this poor quality further biological assessment was carried out upstream.

At Geran bridge a Q rating of 4 was obtained with Plecoptera and Ephemeroptera both represented. Downstream of Geran Bridge at site North of Reenacallee a Q of 4-5 was scored (denoting unpolluted – pristine conditions). Four different species of the highly sensitive A group were found in good numbers. The tributary stream at SE Reenacallee scores a Q rating of 3(moderate pollution). The same tributary is assessed upstream of its confluence with the Finnihy and scores a Q rating of 1-2(heavy pollution) with the most tolerant E group superabundant and an abundance of algal growth on stones.

Conclusion:

There is deterioration in the river Finnihy between N of Reenacallee and Sahaleen Br from very clean unpolluted conditions to moderately polluted. The tributary entering the Finnihy just upstream of Sahaleen bridge has deteriorated in status along its length from moderately polluted at SE Reenacallee to heavily polluted just upstream of the confluence. Further investigation is needed to identify the source of pollution.



Map of Sampling Stations

Table of Results

Location	Lab Ref no	Date	MRP	SS	TON	Colour	NH4	Nitrite
			P		N	Hz	N	N
			--	--	--	20	--	--
			--	--	--	--	--	--
			--	--	--	--	--	--
			mg/l	mg/l	mg/l	Hazen	mg/l	mg/l
Sahaleen Bridge	2012/4216	03-Sep-12	< 0.005	1	0.07	81	0.02	< 0.001
R Finnihy N of Reenacallee	2012/4259	04-Sep-12	< 0.005	< 1	0.06	70	0.04	
Geran Bridge	2012/4258	04-Sep-12	< 0.005	< 1	0.05	55	0.03	
Trib to Finnihy u/s of confl	2012/4260	04-Sep-12	0.029	3	0.08	135	0.02	
Trib to Finnihy SE of Reenacallee	2012/4385	11-Sep-12	0.012		< 0.01	178	0.02	< 0.001
			pH	Cond	DO	%DO	Temp	Q
					O2			
			9	--	15	150	--	--
			--	--	--	--	--	--
			6	--	5	50	--	4
			pH units	µS/cm	mg/l	% O2	^{o} C	Rating
Sahaleen Bridge	2012/4216	03-Sep-12	7.1	68	9.3	100	19.1	3
R Finnihy N of Reenacallee	2012/4259	04-Sep-12	6.7	58	8.8	97	21.1	4.5
Geran Bridge	2012/4258	04-Sep-12	6.7	60	8.6	94	20.2	4
Trib to Finnihy u/s of confl	2012/4260	04-Sep-12	7	114	8	88	20.3	1.5
Trib to Finnihy SE of Reenacallee	2012/4385	11-Sep-12	6.1	55	8.1	78	14.1	3

Landfill	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*
Kenmare	Sw 1	88320.9	73367.3	2012/0472	25-Jan-12	14:05	0.22	6.7	1.1	62	27	14	9.8	2.5	8.5
Kenmare	Sw 1	88320	73367	2012/1886	18-Apr-12	14:20	2.15	6.5	1	86	24	19.1	9.6	1	10.8
Kenmare	Sw 1	88320	73367	2012/3081	04-Jul-12	11:50	0.2	6.5	1	54	35	6.9	8.9	2	13.9
Kenmare	Sw 1	88320	73367	2012/4928	10-Oct-12	13:54	0.6	6.7	< 1	91	47	13.8	8.1	< 1	12.7
Kenmare	Sw 2	88309	73232.4	2012/0473	25-Jan-12	14:30	< 0.02	6	< 1	46	20	13	10.7	2.5	8.4
Kenmare	Sw 2	88309	73232.4	2012/1887	18-Apr-12	14:03	0.02	6.2	< 1	73	18	18.3	10.3	< 1	9.8
Kenmare	Sw 2	88309	73232.4	2012/3082	04-Jul-12	11:20	0.05	6.2	< 1	34	38	5.9	9.7	2	13.9
Kenmare	Sw 2	88309	73232.4	2012/4929	10-Oct-12	13:37	0.02	6.9	< 1	60	35	11.9	9.6	< 1	12.5
Kenmare	Sw 3	88301	73462.5	2012/0474	25-Jan-12	13:50	0.21	6.3	1.3	61	35	14	9.2	15.5	8.5
Kenmare	Sw 3	88301	73462.5	2012/1888	18-Apr-12	14:35	0.12	6.1	< 1	79	29	18.4	10.4	< 1	9.9
Kenmare	Sw 3	88301	73462.5	2012/3083	04-Jul-12	11:30	0.31	6.2	1	55	42	7	8.3	3	13.7
Kenmare	Sw 3	88301	73462.5	2012/4930	10-Oct-12	13:47	0.4	6.3	< 1	72	49	12.4	7.6	1.6	12.3

Surface Water 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*
Kenmare	Se1	2012/0635	02-Feb-12	13:00	< 0.02	7.3	4.2	139	70	43	6.7	< 0.5	no visual evidence	ND
Kenmare	Se1	2012/1990	23-Apr-12	11:30	0.05	6.6	< 1	169	26	2	8.5	< 0.5	no visual evidence	Earthy
Kenmare	Se1	2012/3317	17-Jul-12	14:55	0.07	6.9	1.8	168	52	6	14.9	< 0.5	no visual evidence	ND
Kenmare	Se1	2012/5125	17-Oct-12	15:20	0.06	6.7	2.9	177	69	4	12	< 0.5	no visual evidence	Musty

Foul Water Monitoring Results

Appendix III - Landfill Gas Summary

Kenmare Waste Transfer Station

Monitoring of Landfill Gas Levels

Date	Ref.	CH_4 % v/v	CO_2 % v/v	O_2 % v/v	Atm. Pressure Mbar	Temperature Degrees Celsius
14/10/08	L1	52.3	28.5	1.1	1002	14
20/5/09	L1	48.7	29.3	2.4	998	16
10/12/09	L1	50.9	27.4	1.6	1004	8
14/4/10	L1	0.3	0.2	20.5	1012	13
7/10/11	L1	0.3	0.3	19.9	1021	15
11/11/11	L1	0.2	5.6	18.1	990	13
20/06/12	L1	0.4	4.8	17.1	1005	18
22/11/12	L1	0.3	0.2	20.3	988	8

Appendix IV – Dust Monitoring Results

southern scientific services ltd.

OUR REF: RP 2011 | KERRY COUNTY COUNCIL – KENMARE | 01 – 02 PAGE 01 | 02

ANALYSIS REPORT

CUSTOMER:	KERRY COUNTY COUNCIL	SAMPLE TYPE:	DUST
ADDRESS:	Environment Section, Main Street, Tralee, County Kerry	CONDITION OF SAMPLE ON RECEIPT:	Satisfactory
		DATE SAMPLED:	30 days
REPORT TO:	BRIAN LENNON	DATE RECEIVED:	22 November 2012
SAMPLED BY:	Brian Lennon	DATE ANALYSED:	05 – 11 December 2012
SAMPLING PT:	KENMARE TRANSFER STATION	DATE REPORTED:	12 December 2012
ORDER NO:		WORK NO.:	27563 C | 12P-101 |

TABLE OF RESULTS

METHOD:	LAB REF:	YOUR REF:	TOTAL PARTICULATES mg/m²/day	INORGANIC PARTICULATES mg/m²/day
SCP 039	C12-Nov 491	Station 1	501	81
SCP 039	C12-Nov 492	Station 2	1047	270
SCP 039	C12-Nov 493	Station 3	576	108
SCP 039	C12-Nov 494	Station 4	398	73
SCP 039	C12-Nov 495	Station 5	48	26

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

COMMENT:

C12-NOV 491 – STATION 1

Prior to analysis a large amount of leaves were removed from collector gauge.
The collector gauge contained brown coloured water and a small amount of brown particulates. The dried dish contained a large amount of brown particulates and brown fine powder residue. The ashed dish contained a large amount of brown particulates and white fine powder residue. The ashed residue underwent no effervescence on addition of acid indicating the absence of carbonate in the residue.

C12-NOV 492 – STATION 2

Prior to analysis a large amount of leaves were removed from collector gauge.
The collector gauge contained brown coloured water and a large amount of brown particulates. The dried dish contained a large amount of brown particulates and brown fine powder residue. The ashed dish contained a large amount of brown particulates and white fine powder residue. The ashed residue underwent no effervescence on addition of acid indicating the absence of carbonate in the residue.

C12-NOV 493 – STATION 3

Prior to analysis a large amount of leaves were removed from collector gauge.
The collector gauge contained brown coloured water and a small amount of brown-black particulates. The dried dish contained a large amount of brown particulates and brown fine powder residue. The ashed dish contained a large amount of grey particulates and orange fine powder residue. The ashed residue underwent no effervescence on addition of acid indicating the presence of carbonate in the residue.

C12-NOV 494 – STATION 4

Prior to analysis a large amount of leaves were removed from collector gauge.
The collector gauge contained brown coloured water. The dried dish contained a large amount of brown particulates and brown fine powder residue. The ashed dish contained a large amount of brown particulates and grey fine powder residue. The ashed residue underwent no effervescence on addition of acid indicating the absence of carbonate in the residue.

In accordance to standard laboratory practice a blank sample and a QC standard were analysed with the batch of samples.

Appendix V – <u>Noise Report</u>

Malachy Walsh and Partners
Engineering and Environmental Consultants

2012 Kenmare Waste Licence Environmental Noise Survey

On behalf of
Kerry County Council

January 2013

Job number	Revision	Prepared by	Checked by	Status	Date
15002	6002 A	Peter Barry	Ken Fitzgerald	FINAL	31st January 2013

MWP ENVIRONMENT AND PLANNING

Table of contents

LIST OF APPENDICES

1 INTRODUCTION

Kerry County Council operates a waste transfer station in Claddanure West, near Kenmare. The facility operates within the conditions set out in the waster licence register number W0086-1. Under the terms of this licence the facility is required to carry out an annual environmental noise survey. The results of this survey are described below.

2 METHODOLOGY

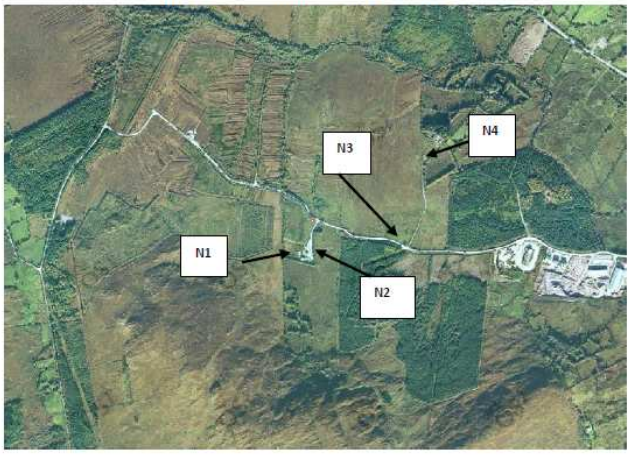
2.1 MONITORING PERIODS

The survey was carried out in accordance with the EPA guidance document, EPA guidance note 4- Guidance Note for Noise: Licence Applications, Surveys and Assessments in relation to Scheduled Activities. In accordance with the guidance note the noise surveys were carried out over three monitoring periods during the normal daytime operating times. Monitoring was undertaken for 30 minutes at each location. Noise monitoring was undertaken by Peter Barry (AMIOA) of Malachy Walsh and Partners on the 21st November and 19th December 2012. Noise monitoring had to undertaken over two days in order to comply with the EPA guidance note NG4 and as a result of adverse weather conditions.

2.2 MONITORING LOCATIONS

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

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
B1 (boundary location, west)	21/11/2012 09:40 – 10:10	56	36	51	80Hz	The main contributing noise sources at this location included customers using facility, the tipping shed in operation and the cardboard compactor.
	21/11/2012 12:20 – 12:50	54	34	49	No tones detected	
	19/12/2012 14:36 – 15:06	50	26	56	125/ 315/ 630 Hz	
B2 (at weighbridge)	21/11/2012 10:21: - 10:51	51	31	51	No tones detected	The main contributing noise sources at this location included customers using facility, the tipping shed in operation and occasional customer's cars. HGVs passing on the adjacent local road also contributed.
	21/11/2012 13:50 – 14:20	54	35	59	No tones detected	
	19/12/2012 14:10 – 14:40	47	27	45	No tones detected	
B3 (off site at forestry gates)	21/11/2012 11:00 – 11:30	50	32	57	315 Hz	No noise from the waste transfer station was audible at this location. Local traffic on the adjacent third class road and birdsong were the main contributors to the noise level at this location.
	21/11/2012 14:30 – 15:00	42	37	45	No tones detected	
	19/12/2012 13:30 – 14:00	54	27	53	No tones detected	
B4 (nearest dwelling approx. 1 km north east of the facility)	21/11/2012 11:44 – 12:14	44	37	48	No tones detected	This is the nearest noise sensitive location and is over 1km from the facility. No noise from the waste transfer station was audible at this location with the exception of faint breaking glass noise from bottle bank. Wind borne noise and background traffic noise from the local third class road were the main contributing noise sources at this location. Some land reclamation was also taking place with occasional loads of earth being deposited nearby, which also contributed to the noise build up.
	21/11/2012 15:06 – 15:36	46	36	45	No tones detected	
	19/12/2012 15:15 – 15:45	46	34	44	No tones detected	

4 CONCLUSION

An analysis of the results, combined with on site observations indicates that the Kenmare Waste Transfer Station is not a noise nuisance and complies with the noise limit criteria set out in the waste licence. The main contributing noise sources off site at the nearest dwelling in particular were not associated with the waste transfer station. The background noise level ranged from 26 to 36 L_{90}dB(A) which demonstrates the quiet rural nature of the area. The measured noise level of L_{Aeq} 44dB and L_{Aeq} 46 dB is significantly below the noise limit of 55db(A) at the nearest noise sensitive location.

Tones detected by the sound level meter can be attributed to the cardboard compactor and tipping shed motor. No tones were detected off site.

Appendix A

Calibration Certificates

CASELLA MEASUREMENT

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

SERVICE

Casella Measurement, Regent House, Wolseley 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%.

Traceable Equipment: -	Equip No.	Cal DueDate
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

SERVICE

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

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:	**Night:**
0800 hrs to 2200 hrs	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_{ArTr}

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

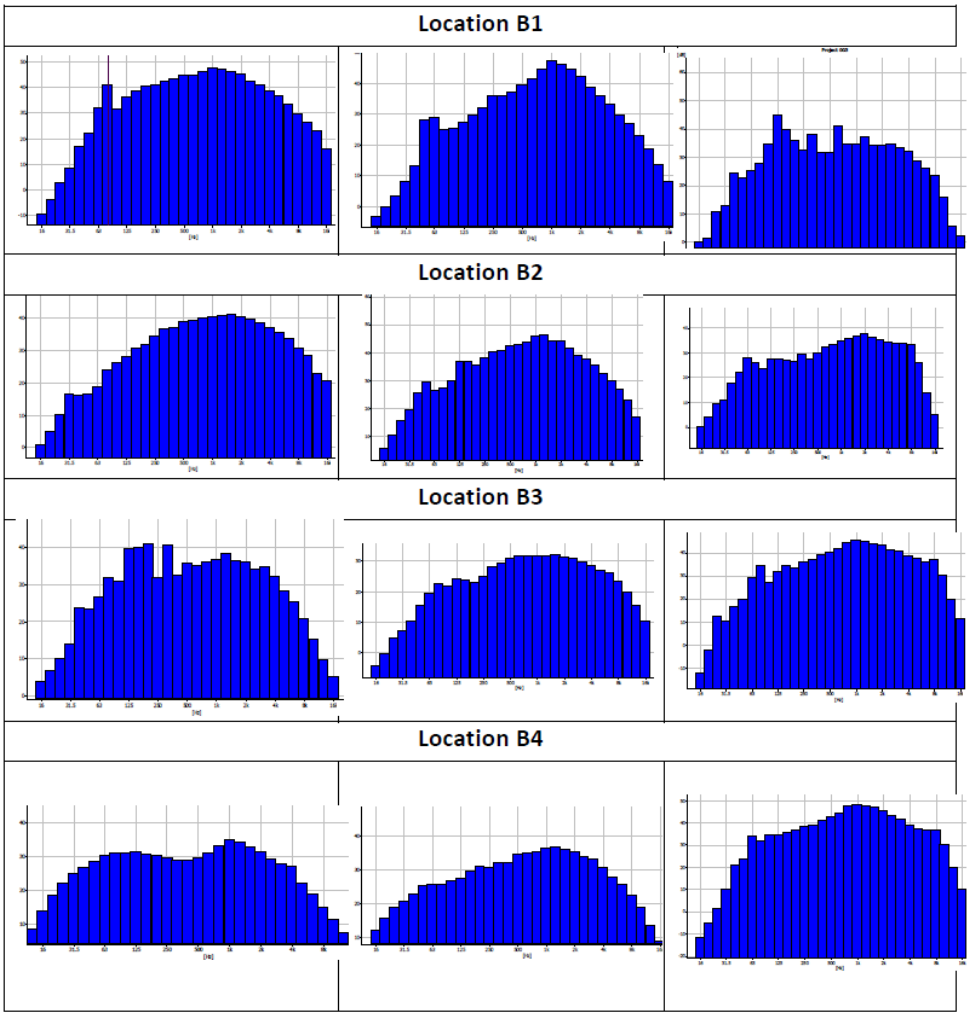
The noise source under investigation for assessing the likelihood of complaints

Tone

A noise with a narrow frequency composition

Appendix C

1/3 Octave Centre Frequency Data Graphical Representation


Location B1
Location B2
Location B3
Location B4

Appendix VI - AER/PRTR Return 2012

Sheet : Facility ID Activities AER Returns Workbook

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	Kenmare Transfer Station
PRTR Identification Number	W0086
Licence Number	W0086-01

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.
4.1	Solvent reclamation or regeneration.
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	Claddanure West
Address 2	Kenmare
Address 3	Co Kerry
Address 4	
	Kerry
Country	Ireland
Coordinates of Location	-9.6227 51.9012
River Basin District	IESW
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	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	
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

4.1 RELEASES TO AIR Link to previous years emissions data | PRTR# : W0086 | Facility Name : Kenmare Transfer Station | Filename : W0086_2012(1).xlsm | Return Year : 2012 | 21/03/2013 15:48

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY		
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
03	Carbon dioxide (CO2)	E	ESTIMATE	Gas Sim Model	182.0	182.0	0.0	0.0
01	**Methane (CH4)**	E	ESTIMATE	Gas Sim Model	122.0	122.0	0.0	0.0

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

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

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

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

Additional Data Requested from Landfill operators

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

Landfill: Kenmare Transfer Station

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility 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	0.86	mineral-based chlorinated engine, gear and lubricating oils	R9	M	Weighed	Abroad	Enva,W0184-1	Clonminam Industrial Estate,,,Portlaoise,County Laois,Ireland	Nehlsen GmbH & Co KG,D3330040,,,,Bremen,,,Germany	.,.,Bremen,.,Germany
Within the Country	15 01 01	No	11.06	cardborad	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	32.75	plastic packaging	R3	M	Weighed	Offsite in Ireland	Dillon Waste,WFP/KY/10/0001/01	The Kerries,,,Tralee,County Kerry,Ireland		
Within the Country	15 01 04	No	4.5	metallic packaging	R4	M	Weighed	Offsite in Ireland	Dillon Waste,WFP/KY/10/0001/01	The Kerries,,,Tralee,County Kerry,Ireland		
Within the Country	15 01 06	No	5.76	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	26.29	glass packaging	R5	M	Weighed	Offsite in Ireland	Dillon Waste,WFP/KY/10/0001/01	The Kerries,,,Tralee,County Kerry,Ireland		
To Other Countries	16 02 11	Yes	10.57	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,EAMI40099,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	23.07	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	20 01 01	No	81.18	newspapers and pams	R3	M	Weighed	Offsite in Ireland	Dillon Waste,WFP/KY/10/0001/01	The Kerries,,,Tralee,County Kerry,Ireland		
To Other Countries	20 01 21	Yes	0.14	fluorescent tubes and other mercury-containing waste	R5	M	Weighed	Abroad	KMK Metals,W0113-01	Cappincur Industrial estate,,,Tullamore,County Offaly,Ireland	Alba Service GmbH & Co. KG,E56657020,Kanalstrasse 64,,,Rheine,48432,Germany	Kanalstrasse 64,,,Rheine,48432,Germany
Within the Country	20 01 25	No	0.1	edible oil and fat	R9	M	Weighed	Offsite in Ireland	Eco Fuels Ltd,WPR 014	Crohane,Fossa,Killarney,County Kerry,Ireland		
To Other Countries	20 01 34	No	1.07	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	20.74	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 23 containing hazardous components	R4	M	Weighed	Offsite in Ireland	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	19.24	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 40	No	32.64	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**	904.14	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	North Kerry Landfill,W001-04	Muingnaminnane,,,Tralee,County Kerry,Ireland		

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