



Waste Licence Ref No. W0086-01

REPORT TITLE

Kenmare Transfer Station Annual Environmental Report

Reporting Period:

January – December 2014

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

March 2015

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1.0 Introduction

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

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

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 <u>Reporting Period</u>

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

3.0 <u>Waste Activities</u>

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

Waste tonnage disposed of at Kenmare Transfer Station during the reporting year (2014) was unchanged on the previous year (2013). However, there was an increase of 22.5 tonne of household waste disposed at the site.

The weight of the waste accepted into Kenmare Transfer Station Facility for disposal for the reporting period was 819.96 Tonnes. This comprises of the following breakdown:

| Waste Category/Source | 2012 | 2013 | 2014 |
|-----------------------|--------|--------|--------|
| Household Waste | 689.16 | 608.50 | 631.00 |
| Commercial Waste | 196.62 | 187.02 | 172.58 |
| Road Sweeping | 4.5 | 0 | 0 |
| Flytipping | 13.86 | 21.28 | 16.38 |
| Total | 904.14 | 816.80 | 819.96 |

Table 1 Waste Stream Break down for reporting Period.

The quantity of waste sent for recycling in 2014 was 360.717 tonnes this is an increase of 32 tonnes on 2013 figure. Waste sent for recycling during the reporting period compared with previous years is outlined in Table 2.

| Waste for Recycling & Recovery | EWC | 2012 | 2013 | 2014 |
|-----------------------------------|----------|--------|--------|---------|
| Metals | 20 01 40 | 32.64 | 40.56 | 49.70 |
| Steel Cans | 15 01 04 | 2.62 | 6.29 | 5.372 |
| Glass | 15 01 07 | 44.86 | 64.26 | 63.653 |
| Aluminium | 15 01 04 | 1.1 | 1.66 | 1.673 |
| Batteries | 20 01 34 | 0.13 | 1.63 | 2.916 |
| Newspapers and | 20 01 01 | 81.18 | 79.28 | 88.12 |
| Magazines | | | | |
| Cardboard | 15 01 01 | 11.06 | 12.26 | 22.48 |
| Fluorescent Tubes | 20 01 21 | 0.14 | 0.5 | 0.355 |
| Plastic Bottles | 15 01 02 | 32.75 | 33.20 | 42.325 |
| WEEE | Various | 76.22 | 80.29 | 71.743 |
| Mixed Packaging | 15 01 06 | 5.76 | 7.64 | 11.48 |
| Waste Mineral Oil | 20 01 25 | 0.1 | 1.08 | 0.36 |
| Textiles | 20 01 11 | 0 | 0 | 0.54 |
| Total for Recycling/Recovery | tonnes | 288.56 | 328.65 | 360.717 |

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

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

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

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

6.0 <u>Summary Report on Emissions for the Reporting Period</u>

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.

7.0 <u>Summary of Results and Interpretations of Environmental Monitoring</u>

a) Dust monitoring

Dust Monitoring was carried out at the facility at Stations 1-5 in September/October 2014. The dust monitoring results for the reporting period were higher than the total emission limit for total particulates for 3 of the five samples however the total inorganic particulates was under the limit of 350 mg/m2/day. There were no issues with dust during 2014 and no complaints were received in relation to dust at the facility.

| Licence Ref | Site Ref | Total Particles mg/m ² /day | Inorganic Particles mg/m²/day | Licenced Limit mg/m²/day |
|-------------|-----------|---|-------------------------------------|-----------------------------|
| B1 | Station 1 | 535 | 123 | 350 |
| B2 | Station 2 | 571 | 151 | 350 |
| B3 | Station 3 | 100 | <10 | 350 |
| B4 | Station 4 | 909 | 179 | 350 |
| B5 | Station 5 | 39 | 14 | 350 |

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.

c) Monitoring of surface water.

The surface water monitoring results are attached in Appendix II.

d) Foul Water

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

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

Cleaning out and a service of the wastewater treatment system was carried out in March

2014. 2.42 tonnes of sludge and foul water was removed from the system.

e) Bund and Tank Integrity Test

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

f) Landfill gas

The levels of methane gas and carbon dioxide recorded have reduced significantly (2014 average $CH_4 - 0.3\% v/v \& CO_2 - 0.1\% v/v$) compared to previous years. The landfill gas monitoring results are attached in Appendix III.

 Table 3 Daytime Noise Monitoring Results Milltown Waste Transfer Station 2014.

| Location | Date and Time | L _{Aeq} dB | L _{A10} dB | L _{A90} dB | Tones | Description of Noise Sources |
|---|---------------|------------------------|------------------------|------------------------|-------|---|
| B1 | 14:07-14:37 | 55 | 52 | 31 | | The main contributing noise sources at this location included |
| (boundary location, west) | 14:37-15:07 | 58 | 61 | 38 | No | customers using facility, the tipping shed in operation and the |
| | 15:07-15:37 | 49 | 49 | 37 | | cardboard compactor. |
| 52 | 11:30-12:00 | 54 | 55 | 37 | | The main contributing noise sources at this location included |
| B2 (at weighbridge) | 12:00-12:30 | 48 | 52 | 38 | No | customers using facility, the tipping shed in operation and |
| | 12:30-13:00 | 50 | 53 | 33 | | occasional customer's cars. HGVs passing on the adjacent local road also contributed. |
| | 13:00:13:30 | 51 | 48 | 34 | | No noise from the waste transfer station was audible at this |
| B3 (off site at forestry gates) | 13:30-14:00 | 53 | 50 | 35 | No | location. Local traffic on the adjacent third class road and birdsong were the main contributors to the noise level at this |
| | 14:00-14:30 | 51 | 48 | 32 | | location. |
| B4 | 14:35-15:05 | 50 | 46 | 33 | | No noise from the waste transfer station was audible at this |
| (entrance to nearest | 15:05 - 15:35 | 51 | 46 | 35 | | location with the exception of faint breaking glass noise from |
| dwelling north east of the facility) | 15:35 -16:05 | 49 | 47 | 36 | No | bottle bank. Wind borne noise and background traffic noise from the local third class road were the main contributing noise sources at this location. |

8.0 <u>Resource and Energy Consumption Summary</u>

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 2014 was 896 litres. The primary usage of diesel is for the rubber tyre 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 2,968 kWh. 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 was not metered during the reporting period 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 <u>Timescale for Proposed Development Works For Forthcoming Year</u>

There is plan to carry out a minor upgrade of Kenmare Waste Transfer Station in terms of signage and layout for the public. Once this is complete we will revert to the Agency with an update report.

11.0 Environmental Management System

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

12.0 <u>Report Targets and Environmental Objectives and Targets for 2015.</u>

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

13.0 <u>Summary of Procedures Developed by the Licensee</u>

The following procedures were developed during the reporting period:

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

14.0 <u>Reported Incidents and Complaints</u>

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

15.0 <u>Report on Financial Provision</u>

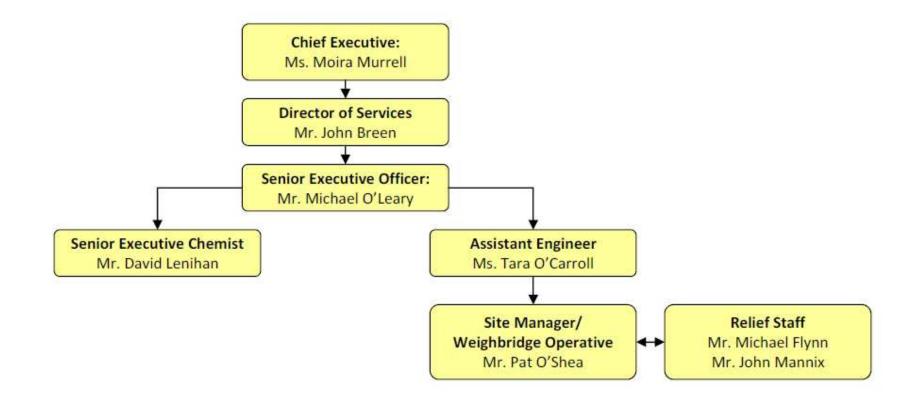
a) Statement of Costs for Waste Operations at Facility 2014

| Accelem | Accelem (T) | Total Charge Euro |
|---------|--|-------------------|
| 60030 | Wages | 25,757.68 |
| 60040 | Salaries | 5,052.14 |
| 60100 | ER PRSI | 4,619.81 |
| 60200 | Overtime | 9,937.55 |
| 60400 | Sick Pay | 385.68 |
| 60500 | Annual Leave | 1,643.34 |
| 60510 | Bank Holiday Leave | 751.24 |
| 60600 | Travel/Subsistence | 2,602.16 |
| 61990 | Other Allowances | 1,519.40 |
| 65500 | Minor Contracts-Trade Services & other works | 42,969.51 |
| 68000 | Non-Capital Equip Purchase - Office Equip/Furn | 199.00 |
| 69000 | Hire (Ext) - Plant/Transport/Machinery & Equipme | 65.04 |
| 69200 | Repairs & Maint - Plant | 150.83 |
| 69260 | Repairs & Maint - Other Equip | 36.40 |
| 69400 | Transfers from Machinery Yard | 3,377.50 |
| 69600 | Other Vehicle Expenses | 102.00 |
| 70000 | Materials | 268.90 |
| 70990 | lssues from Stores | 3,294.39 |
| 70991 | Returnsto Stores | -276.16 |
| 71000 | Insurance | 486.60 |
| 73400 | Staff Travelling & Subsistence Expenses | 465.60 |
| 76000 | Communication Expenses | 163.22 |
| 76100 | Postage | 41.59 |
| 77100 | Courier | 1.97 |
| 77200 | Security – Property | 0.00 |
| 78000 | Training | 0.00 |
| 79900 | Consultancy/Professional Fees and Expenses | 0.00 |
| 80000 | Advertising | 42.00 |
| 81000 | Printing & Office Consumables | 131.82 |
| 82100 | Statutory Contributions to Other Bodies | 5,287.98 |
| 85100 | Rates & Other LA Charges | 0.00 |
| 86000 | Energy | 1,316.94 |
| | Total Cost Residual Waste Operations | 110,394.13 |

b) Statement of Costs for Recycling Operations at Facility 2014

| Accelem | Accelem (T) | Total Charge Euro |
|---------|--|-------------------|
| 60030 | Wages | 9,018.57 |
| 60040 | Salaries | 5,052.14 |
| 60100 | ER PRSI | 2,300.04 |
| 60200 | Overtime | 4,517.84 |
| 60500 | Annual Leave | 3,095.44 |
| 60510 | Bank Holiday Leave | 481.26 |
| 60600 | Travel/Subsistence | 922.69 |
| 61990 | Other Allowances | 348.10 |
| 65500 | Minor Contracts- Trade Services & other wo | 7,387.52 |
| 69200 | Repairs & Maint - Plant | 0.00 |
| 69260 | Repairs & Maint - Other Equip | 9.10 |
| 69400 | Transfers from Machinery Yard | 275.00 |
| 70000 | Materials | 783.44 |
| 70990 | lssues from Stores | 517.24 |
| 73400 | Staff Travelling & Subsistence Expenses | 464.23 |
| 76000 | Communication Expenses | 117.83 |
| 77100 | Courier | 5.10 |
| 77200 | Security - Property | 11.50 |
| 78000 | Training | 0.00 |
| 80000 | Advertising | 42.00 |
| 81000 | Printing & Office Consumables | 13.00 |
| 82100 | Statutory Contributions to Other Bodies | 5,287.98 |
| 85100 | Rates & Other LA Charges | 0.00 |
| 86000 | Energy | 348.48 |
| | Total Recycling Operations | 40,998.50 |

16.0 Management and Staffing Structure at Facility 2014



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

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

| | | | | | | | Non Levied Waste | | | | | | | | · · · · · · · · · · · · · · · · · · · | | | |
|-----------------------|-------------------------|--|-----------------------------------|--------------------------------|--------------------------|-----------------------|------------------|--------------------|---------------------------------|---------------------------------------|-----------------------|--|----------------------------|------------------------------|---------------------------------------|-----------------------|----------|------------------------------|
| | 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 | | Graveyard Waste | KCC Clean Ups / F'tipping | Clean Ups / F'tipping No Charge | Total Non - levied | Total of Waste Over Weighbridge Excluding Ticket Waste | Total Waste Out | No. Loads out of TS | Waste In @ NKL | No. Loads into NKL | Variance | Average Variance per Load |
| January 2014 | 16.22 | 37.04 | 11.04 | 0 | 0 | 64.30 | 0 | 0 | 0 | 1.34 | 1.34 | 28.60 | 65.18 | 6 | 65.64 | 6 | 0.46 | 0.08 |
| January 2013 | 16.40 | 29.33 | 15.92 | 0 | 0.48 | 62.13 | 0 | 0 | 0.24 | 0.43 | 0.67 | 33.47 | 62.46 | 6 | 62.80 | 6 | 0.34 | 0.06 |
| February 2014 | 16.18 | 25.44 | 12.76 | 0 | 0 | 54.38 | 0 | 0 | 0 | 0.92 | 0.92 | 29.86 | 55.00 | 5 | 55.3 | 5 | 0.30 | 0.06 |
| February 2013 | 10.46 | 32.6 | 11.46 | 0 | 0.14 | 54.66 | 0 | 0 | 0.68 | 1.44 | 2.12 | 24.18 | 55.88 | 5 | 56.78 | 5 | 0.90 | 0.18 |
| March 2014 | 18.08 | 36.36 | 14.34 | 0 | 0.00 | 68.78 | 0 | 0 | 0.2 | 0.76 | 0.96 | 33.38 | 69.58 | 7 | 69.74 | 7 | 0.16 | 0.02 |
| March 2013 | 12.38 | 41.96 | 12.64 | 0 | 0 | 66.98 | 0 | 0 | 1.86 | 0.6 | 2.46 | 27.48 | 69.80 | 7 | 69.44 | 7 | -0.36 | -0.05 |
| April 2014 | 16.76 | 33.24 | 17.9 | 0 | 0 | 67.9 | 0 | 0 | 0 | 2.32 | 2.32 | 36.98 | 69.96 | 7 | 70.22 | 7 | 0.26 | 0.04 |
| April 2013 | 16.68 | 18.28 | 11.86 | 0 | 0 | 46.82 | 0 | 0 | C | 2.84 | 2.84 | 31.38 | 60.18 | 6 | 49.66 | 5 | -10.52 | -2.10 |
| May 2014 | 17.64 | 28.30 | 15.14 | 0 | 0 | 61.08 | 0 | 0 | 0.56 | i 1.8 | 2.36 | 35.14 | 63.30 | 6 | 63.44 | 6 | 0.14 | 0.02 |
| May 2013 | 21.76 | 38.6 | 20.46 | 0 | 0 | 80.82 | 0 | 0 | C | 4.56 | 4.56 | 46.78 | 74.84 | 7 | 85.38 | 8 | 10.54 | 1.32 |
| June 2014 | 24.84 | 40.52 | 8.92 | 0 | 1.94 | 76.22 | 0 | 0 | 0.02 | 0.94 | 0.96 | 36.66 | 76.84 | 8 | 77.18 | 8 | 0.34 | 0.04 |
| June 2013 | 17.64 | 37.82 | 16.56 | 0 | 0 | 72.02 | 0 | 0 | 0.16 | 0.94 | 1.1 | 35.30 | 73.1 | 7 | 73.12 | 7 | 0.02 | 0.00 |
| 1st - 11th July 2014 | 6.92 | 22.06 | 9.68 | 0 | 0 | 38.66 | 0 | 0 | C | 0.48 | 0.48 | 17.08 | 39.16 | 4 | 39.14 | 4 | -0.02 | 0.00 |
| 12th - 31st July 2014 | 13.72 | 18.98 | 12.8 | 0 | 2.46 | 47.96 | 0 | 0 | 0.5 | 0.92 | 1.42 | 30.40 | 49.38 | 5 | 0.00 | 0.00 | 0.00 | 0.00 |
| July 2014 | 20.64 | 41.04 | 22.48 | 0 | 2.46 | 86.62 | 0 | 0 | 0.5 | i 1.4 | 1.9 | 47.48 | 88.54 | 9 | 39.14 | 4 | -0.02 | 0.00 |
| July 2013 | 22.64 | 37.98 | 21.3 | 0 | 0.04 | 81.96 | 0 | 0 | 0.38 | 0.94 | 1.32 | 45.30 | 83.02 | 8 | 83.28 | 8 | 0.26 | 0.03 |
| August 2014 | 18.4 | 51.60 | 17.72 | 0 | 0 | 87.72 | 0 | 0 | 1.32 | 0.66 | 1.98 | 38.10 | 89.70 | 8 | | | | |
| August 2013 | 20.1 | 46.16 | 23.98 | 0 | 0 | 90.24 | 0 | 0 | C | 0.54 | 0.54 | 44.62 | 90.44 | 9 | 90.78 | 9 | 0.34 | 0.04 |
| September 2014 | 14.48 | 36.48 | 12.88 | 0.00 | 0 | 63.84 | 0 | 0 | 0.66 | 0.76 | 1.42 | 28.78 | 65.26 | 6 | | | | |
| September 2013 | 12.54 | 33.42 | 14.64 | 0 | 0 | 60.60 | 0 | 0 | C | 1.06 | 1.06 | 28.24 | 61.58 | 6 | 61.66 | 6 | 0.08 | 0.01 |
| October 2014 | 15.00 | 26.84 | 14.38 | 0 | 0.06 | 56.28 | | | | 0.54 | 0.54 | 29.98 | 56.82 | 5 | | | | |
| October 2013 | 14.06 | 32.06 | 15.76 | 0 | 0 | 61.88 | 0 | 0 | C | 2.34 | 2.34 | 32.16 | 64.4 | 6 | 64.22 | 6 | -0.18 | -0.03 |
| November 2014 | 10.86 | 31.76 | 10.3 | 0 | 0 | 52.92 | 0 | 0 | 0 | 1.06 | 1.06 | 22.22 | 53.98 | 5 | | | | |
| November 2013 | 9.4 | 37.55 | 11.08 | 0 | 0 | 58.03 | 0 | 0 | 0.42 | 1.23 | 1.65 | 22.13 | 59.5 | 6 | 59.68 | 6 | 0.18 | 0.03 |
| December 2014 | 13.12 | 40.16 | 10.26 | 0.00 | 0 | 63.54 | 0 | 0.00 | 0 | 0.62 | 0.62 | 24.00 | 64.16 | 6 | | | | |
| December 2013 | 11.52 | 37.16 | 10.6 | 0 | 0.1 | 59.38 | 0 | 0 | C | 0.62 | 0.62 | 22.84 | 59.74 | 6 | 60.00 | 6 | 0.26 | 0.04 |
| Total Tonnage 2014 | 202.22 | 428.78 | 168.12 | 0.00 | 4.46 | 803.58 | 0.00 | 0.00 | 3.26 | 13.12 | 16.38 | 391.18 | 818.32 | 78 | 440.66 | 43 | 1.64 | |
| Total Tonnage 2013 | 185.58 | 422.92 | 186.26 | 0.00 | 0.76 | 795.52 | 0.00 | 0.00 | 3.74 | 17.54 | 21.28 | 393.88 | 814.94 | 79 | 816.80 | 79 | 1.86 | |
| Grand Total | | | | | | | | 1 | 6.38 | | | | al Average : Jan - 11th | | ce Per Load | | 0 | .04 |

| | | Household Waste Deposited at Kenmare Civic Amentity Sites in 2014 | | | | | | | | | | | | |
|--|---|---|--------|--------|--------|--------|--------|---------|--------|--------|--------|---------|--------|---------|
| | ſ | Jan | Feb | Mar | Apr | Mav | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| Naterial type | Suggested EWC codes | Jan | reb | war | Apr | wiay | Jun | Jui | Aug | Sep | UCI | NOV | Dec | Total |
| ixed residual waste (Waste into NKL from TS) | 20 03 01 | 65.64 | 55.30 | 69.74 | 70.22 | 63.44 | 77.18 | 88.52 | 89.70 | 65.26 | 56.82 | 53.98 | 64.16 | 819.96 |
| rganic waste (food and garden) | | | | | | | | | | | | | | 0.00 |
| od (compost waste Milltown TS) | 20 01 08 | | | | | | | | | | | | | 0.00 |
| rden | 20 02 01 | | | | | | | | | | | | | 0.00 |
| xed dry recyclables (Ecosence Bags) | 20 03 01 | 1.18 | 0.74 | 0.82 | 1.10 | 0.80 | 0.92 | 1.00 | 1.12 | 1.28 | 1.00 | 0.82 | 0.70 | 11.48 |
| rdboard, newspaper and other paper | | | | | | | | | | | | | | 0.00 |
| rdboard packaging | 15 01 01 | 6.48 | 1.80 | | | | 2.04 | 4.26 | 1.46 | 1.28 | 1.32 | 1.74 | 2.10 | 22.48 |
| rdboard non-packaging | 20 01 01 | | | | | | | | | | | | | 0.00 |
| per packaging | <u>15 01 01</u> 20 01 01 | | | | | | | | | | | | | 0.00 |
| per non-packaging wspaper and magazines | 20 01 01 | 10.54 | 7.40 | 6.00 | 6.00 | 8.02 | 6.02 | 8.02 | 6.16 | 5.72 | 8.18 | 7.62 | 8.44 | 88.12 |
| ass | 200101 | 10.04 | 7.40 | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 | 0.10 | 0.12 | 0.10 | 1.02 | 0.44 | 0.00 |
| ass packaging (bottles) | 15 01 07 | 5.9090 | 3.8870 | 2.9780 | 4.5260 | 4.0790 | 7.5970 | 5.7490 | 5.5750 | 4.3910 | 1.6190 | 3.2450 | 5.6380 | 55.1930 |
| ass non-packaging (flat glass) | 20 01 02 | 0.0000 | 0.0010 | 2.0.00 | | | 1.0010 | 0.1.100 | 0.0700 | | | 0.2.100 | 0.0000 | 0.0000 |
| etals | | | i | 1 | İ | | | | i | | | i | i | 0.0000 |
| uminium cans (packaging) | 15 01 04 | 0.1370 | 0.1650 | 0.1300 | 0.1450 | 0.1260 | 0.1990 | 0.1470 | 0.1330 | 0.1310 | 0.0710 | 0.0980 | 0.1910 | 1.6730 |
| eel cans (packaging) | 15 01 04 | 0.4880 | 0.4870 | 0.2380 | 0.3910 | 0.5470 | 0.6190 | 0.5340 | 0.3580 | 0.5460 | 0.2260 | 0.3920 | 0.5460 | 5.3720 |
| her metals (scrap metals) | 20 01 40 | 2.84 | 4.14 | 3.14 | 6.34 | 5.92 | 3.60 | 5.98 | 2.64 | 4.96 | 2.38 | 2.88 | 4.88 | 49.70 |
| astic | | | | | | | | | | | | | | 0.00 |
| astic packaging (bottles) | 15 01 02 | 3.48 | 2.28 | 2.50 | 2.35 | 3.280 | 2.720 | 4.020 | 9.140 | 2.920 | 3.480 | 3.020 | 3.14 | 42.325 |
| astic non-packaging | 20 01 39 | | | | | | | | | | | | | 0.00 |
| lystyrene | | | | | | | | | | | | | | 0.00 |
| omposite packaging (e.g. tetrapaks) | 15 01 05 | | | | | | | | | | | | | 0.00 |
| extiles | | | | | | | | | | | | | | 0.00 |
| xtiles, packaging | 15 01 09 | | | | | | | | | | | | | 0.00 |
| xtiles, non-packaging (clothes) | 20 01 11 | | | | | | 0.54 | | | | | | | 0.54 |
| ood | 15 01 03 | | | | | | | | | | | | | 0.00 |
| pod packaging pod non-packaging | 20 01 38 | | | | | | | | | | | | | 0.00 |
| ixed, uncontaminated wood packaging and non- | 15 01 03; | | | | | | | | | | | | | |
| ackaging (collected at An Daingean) | 20 01 38 | | | | | | | | | | | | | 0.00 |
| ood, treated, hazardous | 20 01 37* | | | | | | | | | | | | | 0.00 |
| atteries | Portable batteries | | | | | | | | | | | | | 0.00 |
| ad acid batteries and accumulators (Car Batteries) | 16 06 01* | | | | | | | | | | | | | 0.00 |
| i-Cd batteries and accumulators | 16 06 02* | 0.000 | 0.562 | 0.000 | 0.660 | 0.169 | 0.000 | 0.000 | 0.000 | 0.825 | 0.000 | 0.000 | 0.700 | 2.916 |
| ther (e.g. alkaline) batteries and accumulators (Small | 16 06 04 | | | | | | | | | | | | | 0.00 |
| atteries) | 10 00 04 | | | | | | | | | | | | | 0.00 |
| ousehold Hazardous Waste | | | | | | | | | | | | | | 0.00 |
| aste mineral oils | 13 02 08 | | | | | | 0.36 | | | | | | | 0.36 |
| il filters (vehicles) | 13 08 99 | | | | | | | | | | | | | 0.00 |
| il containers (mineral oil) - plastic + metal | 13 08 99 | | | | | | | | | | | | | 0.00 |
| aste cooking or vegetable oils | 20 01 25 | | | | | | | | | | | | | 0.00 |
| aste paint and varnish (including containers) erosols | 20 01 27 14 06 01 | | | | | | | | | | | | | 0.00 |
| EEE collected by compliance schemes | 14 00 01 | | | | | | | | | | | | | 0.00 |
| RT | 20 01 36 | 2.060 | 1.250 | 0.866 | 1.098 | 1.538 | 1.202 | 0.986 | 1.556 | 1.690 | 0.657 | 1.438 | 0.525 | 14.866 |
| DA - Small Domestic Appliances | 20 01 36 | 2.910 | 1.380 | 1.240 | 2.000 | 2.020 | 2.200 | 2.590 | 2.475 | 2.310 | 1.362 | 1.650 | 2.050 | 24.187 |
| DA - Large Domestic Appliances | 20 01 36 | 0.000 | 5.440 | 1.800 | 1.700 | 1.507 | 0.000 | 4.400 | 0.000 | 4.100 | 0.218 | 0.000 | 2.170 | 21.335 |
| ld | 20 01 36 | 0.000 | 1.167 | 0.685 | 0.000 | 2.540 | 0.854 | 0.999 | 0.000 | 1.446 | 0.000 | 0.753 | 2.911 | 11.355 |
| | | | | | | | | | | | | | | 0.00 |
| EE taken off-site by charities (e.g. mobile phones) | 20 01 35 | | | | 1 | | | | | | | | | 0.00 |
| mmercial Glass (Kenmare TS only) | 15 01 07 | 0.72 | | | 1.70 | | 1.48 | | 1.76 | 1.76 | | 1.04 | | 8.46 |
| uorscent Tubes | 20 01 21 | 0.72 | 0.12 | | 1.70 | | 1.48 | 0.125 | 1.70 | 1.70 | | 1.04 | 0.11 | 0.355 |
| | | | 0.12 | | | | | 0.125 | | | | | 0.11 | 0.355 |
| udge oul Water Septic Tanks | <enter code="" ewc=""> 19 07 03</enter> | | | | | | | | | 2.42 | | | | |
| | 19.07.03 | | 1 | 1 | 1 | 1 | | 1 | 1 | 2.42 | 1 | 1 | 1 | 2.42 |

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.

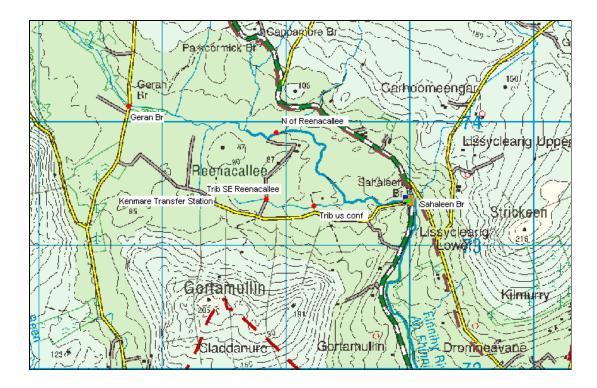
Discussion:

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 Station

| Tab | le c | of R | esu | lts |
|-----|------|------|-----|-----|
|-----|------|------|-----|-----|

| | | | MRP | SS | TON | Colour | NH4 | Nitrite |
|-----------------------------------|-----------|-----------|-------|------|------|--------|------|---------|
| | | | Р | | N | Hz | N | N |
| | | | | | | 20 | | |
| | | | | | | | | |
| | | | | | | | | |
| | Lab Ref | | | | | | | |
| Location | no | Date | 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 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | | | рН | Cond | DO | %DO | Temp | Q |
|-----------------------------------|-----------|-----------|-------|-------|------|------|------|--------|
| | | | | | 02 | | | |
| | | | 9 | | 15 | 150 | | |
| | | | | | | | | |
| | | | 6 | | 5 | 50 | | 4 |
| | | | рН | | | | | |
| | | | units | μS/cm | mg/l | % O2 | °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 |

| | | | | | Parameter | | рH | | Conductivit | Chemical (| Chloride | Dissolved (| Suspended | Temperatu | Appearanc | | Oils/Fats |
|---------|----------|--------------|-----------------------|-------------|-----------|--------|----------|------|-------------|------------|----------|-------------|-----------|-----------|-------------|-------------|-----------|
| | | | | | | NH4 | Physchem | O2 | Physchem | O2 | CI | O2 | Physchem | Physchem | | Physchem | OFG |
| | | | | | Max. | Varies | Varies | - | Varies | 1 | Varies | Varies | | - | | - | |
| | | | | | Target | | | | | | | - | - | - | | | |
| | | | | | Min. | | Varies | - | | 1 | 1 | Varies | | - | | - | |
| Project | Location | Location Ell | Location N Sample ReS | Sample Date | Comments | mg/l | pH units | mg/l | µS/cm | mg/l | mg/l | mg/l | mg/l | Degrees C | Descriptive | Descriptive | mg/l |
| Kenmare | Sw1 | 88320 | 73367 2014/0334 | 29-Jan-14 | | 0.23 | 6.6 | 1.5 | 165 | 12 | 47.3 | 11.4 | < 1 | 6.3 | Clear | ND | |
| Kenmare | Se1 | 88375.1 | 73303.8 2014/0476 | 11-Feb-14 | | 0.05 | 6.9 | 2.7 | 145 | 55 | | | 41 | | | ND | < 0.5 |
| Kenmare | Sw1 | 88320 | 73367 2014/1309 | 01-Apr-14 | | 1.58 | 6.3 | 1.8 | 142 | 21 | 26.3 | 7.2 | < 1 | 9.5 | Clear | N.D | |

Surface Water Monitoring Results

| | | | | | Paramete r Reported | | Tempera ture | рН | Conducti vity | B.O.D. | C.O.D. | Ammoni a | Chloride | Dissolve d Oxvaen | Suspend ed Solids | |
|-----------------|----------|---------------|-----------|---------|---------------------------|--------|-----------------|-----|------------------|--------|--------|-------------|----------|-------------------------|----------------------|-------|
| | | | | | Name Min. Value | | | 6.0 | | | | 0.0 | | | | |
| | | | | | Max Value | | | 9.0 | | | | 0.0 | | | | |
| SAMPLIN | Sampling | Sample | Sampled | Sampled | Units | NONE | DEG_C | PH | USCM | BOD | MGL | MGLN | MGL | MGL | MGL | NONE |
| G POINT | Point | No. | Date | Time | | | | | | | | | | | | |
| KENMARE _SW1 | | 2014/296 4 | 23-Jul-14 | 14:50 | | Normal | 20.5 | 6.2 | 106 | 2.5 | 20 | 0.66 | 14.7 | | 4 | Clear |

| | | | | 1 | Parameter | Ammoniun | rрН | BOD (5day | Conductivit | Chemical (| Chloride | Dissolved (| Suspended | Temperatu | Appearanc | Odour | Oils/Fats & |
|---------|----------|------------|-----------------------|------------|-----------|----------|----------|-----------|-------------|------------|----------|-------------|-----------|-----------|-------------|-------------|-------------|
| | | | | | | NH4 | Physchem | 02 | Physchem | O2 | CI | 02 | Physchem | Physchem | | Physchem | OFG |
| | | | | 1 | Max. | Varies | Varies | | Varies | - | Varies | Varies | | | | | |
| | | | | | Target | | | - | | | - | - | | | | - | |
| | | | | 1 | Min. | | Varies | - | | | - | Varies | | | | - | |
| Project | Location | Location E | Location N Sample ReS | ample Date | Comments | mg/l | pH units | mg/l | µS/cm | mg/l | mg/l | mg/l | mg/l | Degrees C | Descriptive | Descriptive | mg/l |
| Kenmare | Sw2 | 88309 | 73232.4 2014/0337 | 29-Jan-14 | | 0.02 | 5.7 | < 1 | 162 | 11 | 49 | 11.3 | < 1 | 6.2 | Clear | ND | |
| Kenmare | Sw2 | 88309 | 73232.4 2014/1312 | 01-Apr-14 | | 0.02 | 6.6 | < 1 | 98 | 18 | 24.5 | 9.9 | < 1 | 9.2 | Clear | N.D | |
| Kenmare | Sw2 | 88309 | 73232.4 2014/1310 | 01-Apr-14 | | 0.06 | 6.5 | < 1 | 98 | 16 | 24.7 | 9.9 | < 1 | 9.2 | Clear | N.D | |

| | | | | | Paramete r Reported Name Min. Value Max Value | Odour | Tempera ture | рН 6.0 9.0 | Conducti vity | B.O.D. | C.O.D. | Ammoni a 0.0 0.0 | Chloride | | Suspend ed Solids | |
|--------------------|-------------------|---------------|-----------------|-----------------|--|--------|-----------------|------------------|------------------|--------|--------|---------------------------|----------|------|----------------------|-------|
| SAMPLIN G POINT | Sampling Point | Sample No. | Sampled Date | Sampled Time | Units | NONE | DEG_C | PH | USCM | BOD | MGL | MGLN | MGL | MGL | MGL | NONE |
| KENMARE _SW2 | | 2014/296 5 | 23-Jul-14 | 15:40 | | Normal | 19.5 | 6.5 | 70 | <1.0 | 26 | 0.08 | 11.8 | | 5 | Clear |
| | | 2014/448 9 | 05-Nov-14 | 13:50 | | Normal | 9.9 | 6.0 | 57 | <1.0 | 23 | 0.03 | 14.5 | 10.6 | <1 | Clear |

| | Parameter | Ammoniun | pН | BOD (5day | Conductivit | Chemical C | Chloride | Dissolved (| Suspended | Temperatu | Appearanc | Odour | Oils/Fats & |
|--|-----------|----------|----------|-----------|-------------|------------|----------|-------------|-----------|-----------|-------------|-------------|-------------|
| | | NH4 | Physchem | 02 | Physchem | 02 | CI | 02 | Physchem | Physchem | | Physchem | OFG |
| | Max. | Varies | Varies | - | Varies | - | Varies | Varies | - | | | - | |
| | Target | | | 1 | - | 1 | 1 | 1 | 1 | | | - | |
| | Min. | | Varies | - | - | - | - | Varies | - | | | - | |
| Project Location Location E Location N Sample Re Sample Date | Comments | mg/l | pH units | mg/l | µS/cm | mg/l | mg/l | mg/l | mg/l | Degrees C | Descriptive | Descriptive | mg/l |
| Kenmare Sw3 88301 73462.5 2014/1311 01-Apr-14 | Stagant | 1.57 | 6.9 | 1.2 | 154 | 28 | 25.9 | 8 | < 1 | 9.1 | River Like | N.D | |

| | | | | | Paramete r Reported Name Min. Value Max | Odour | Tempera ture | рН 6.0 9.0 | Conducti vity | B.O.D. | C.O.D. | Ammoni a 0.0 0.0 | Chloride | Dissolve d Oxvaen | Suspend ed Solids | Visual Inspecti on |
|--------------------|----------------|-----------------|-----------------|-----------------|---|--------|-----------------|------------------|------------------|--------|--------|---------------------------|----------|-------------------------|----------------------|--------------------------|
| SAMPLIN G POINT | | Sample No. | Sampled Date | Sampled Time | Value Units | NONE | DEG_C | РН | USCM | BOD | MGL | MGLN | MGL | MGL | MGL | NONE |
| KENMARE _SW3 | Kenmare Sw3 | 2014/296 6 | 23-Jul-14 | 15:15 | | Normal | 19.8 | 6.1 | 106 | 1.3 | 37 | 0.86 | 14.2 | | 4 | Clear |
| | | 2014/448 8 | 05-Nov-14 | 13:50 | | Normal | 9.9 | 6.3 | 77 | <1.0 | 27 | 0.18 | 15.8 | 9.6 | <1 | Clear |
| | | 2014/449 0 | 05-Nov-14 | 14:20 | | Normal | 10.0 | 6.1 | 81 | <1.0 | 39 | 0.31 | 15.3 | 8.9 | 1 | Clear |
| | Kenmare Sw3 | 2014/449 1QA | 06-Nov-14 | 14:20 | | Normal | 10.0 | 6.1 | 81 | <1.0 | 40 | | 15.7 | 8.9 | <1 | Clear |

Foul Water Monitoring Results

| | Parameter | Ammoniun | pН | BOD (5day | Conductivi | Chemical (| Chloride | Dissolved (| Suspended | Temperatu | Appearanc | Odour |
|--|-------------|----------|----------|-----------|------------|------------|----------|-------------|-----------|-----------|-------------|-------------|
| | | NH4 | Physchem | O2 | Physchem | O2 | CI | O2 | Physchem | Physchem | | Physchem |
| | Max. | Varies | Varies | | Varies | | Varies | Varies | | - | | |
| | Target | | - | | | | | | | - | | |
| | Min. | | Varies | | | | | Varies | | - | | |
| Category Project Location Location E Location Northing Sample Re Sample Da | te Comments | mg/l | pH units | mg/l | µS/cm | mg/l | mg/l | mg/l | mg/l | Degrees C | Descriptive | Descriptive |
| Landfill Kenmare Se1 88375.1 73303.8 2014/1863 12-May | 14 | 0.8 | 6.5 | 31 | 95 | 60 | | | 25 | 14.5 | Clear | ND |

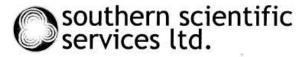
| | | | | | | | | Analysis | | 005A_TE MP_FIEL D | 006_PH | | OD_ATU | | 022K_A MMONIA | | | 082_VIS _INSPEC TION |
|----------|-----------------|---------|--------------------|-------------------|---------------|-----------------|-----------------|--------------------------|--------|-------------------------|--------|------------------|--------|--------|------------------|--------------|----------------------|----------------------------|
| | | | | | | | | Paramete r | Odour | Tempera ture | рН | Conducti vity | | C.O.D. | Ammoni a | Total OFG | Suspend ed Solids | Visual |
| | | | | | | | | Reported Name Min. | | | | | | | | | | |
| | | | | | | | | Value Max Value | NONE | 850.0 | 811 | 110014 | | 1101 | MOLN | | | |
| Product | Product Version | Project | SAMPLIN G POINT | Sampling Point | Sample No. | Sampled Date | Sampled Time | Units | NONE | DEG_C | PH | USCM | BOD | MGL | MGLN | MGL | MGL | NONE |
| LEACHATE | 1 | Kenmare | KENMARE _SE1 | Kenmare Se1 | 2014/319 9 | 12-Aug-14 | 14:10 | | Normal | 17.0 | 6.8 | 199 | 4.6 | 77 | 0.61 | <1 | 10 | Clear |
| | | | | Kenmare Se1 | 2014/485 6 | 24-Nov-14 | 13:00 | | Normal | 10.8 | 7.1 | 120 | 7.1 | 72 | 0.43 | <1 | 8 | Clear, Coloured. |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Appendix III - Landfill Gas Summary

Kenmare Waste Transfer Station

Monitoring of Landfill Gas Levels

| Date | Ref. | CH ₄ | CO ₂ | O ₂ | Atm. Pressure | Temperature |
|----------|------|-----------------|-----------------|-----------------------|---------------|-----------------|
| | | % v/v | % v/v | % v/v | Mbar | 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 |
| 18/09/13 | L1 | 0.3 | 0.2 | 20.3 | 1009 | 8 |
| 31/10/13 | L1 | 0.3 | 0 | 19.7 | 1001 | 9 |
| 22/11/13 | L1 | 0.2 | 0.1 | 19.1 | 1004 | 8 |



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| | ANALY | SIS 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: | TARA MC CARTHY | DATE RECEIVED: | 20 October 2014 |
| SAMPLED BY: | John Mannix, Kerry County Council | DATE ANALYSED: | 05 - 10 November 2014 |
| SAMPLING PT: | KENMARE TRANSFER STATION | DATE REPORTED: | 11 November 2014 |
| ORDER NO: | | WORK NO .: | 31488 C 12P-101 |

TABLE OF RESULTS

| Method: | Lab Ref: | Your Ref: | Unit | TOTAL PARTICULATES | INORGANIC PARTICULATES |
|---------|-------------|-----------|------------------------|-----------------------|---------------------------|
| SCP 039 | C14-Oct 395 | Station 1 | mg/m ² /day | 535 | 123 |
| SCP 039 | C14-Oct 396 | Station 2 | mg/m ² /day | 571 | 151 |
| SCP 039 | C14-Oct 397 | Station 3 | mg/m ² /day | 100 | <10 |
| SCP 039 | C14-Oct 398 | Station 4 | mg/m ² /day | 909 | 179 |
| SCP 039 | C14-Oct 399 | Station 5 | mg/m²/day | 39 | 14 |

Jennifer Keane **Chemistry Laboratory Manager**

• The results relate only to the items tested.

• The analysis report shall not be reproduced except in full without written approval of the laboratory.

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

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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>



Noise Survey 2014 Kenmare Waste Transfer Station



16490-6003-A

February 2015

i.

| ISSUE FORM | |
|----------------------|-----------------------|
| Project number | 16490 |
| Document number | 6003 |
| Document revision | A |
| Document title | Noise Survey |
| Document status | Draft |
| Document prepared by | Peter Barry |
| Document checked by | MR (MWP) / 2016-02-16 |



| 1649 | 0-6003-A | Noise Survey | February 2015 |
|------|---------------------------|--------------|---------------|
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| 2.2 | - | ographs | |
| 2.3 | Survey Equipment | | 2 |
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ii

1 INTRODUCTION

Kerry 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 20th January 2015.

2.2 MONITORING LOCATIONS

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

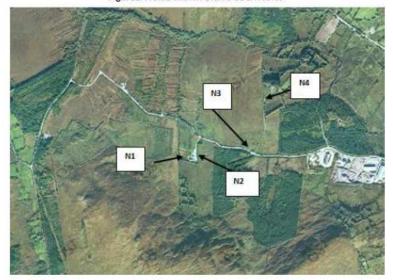


Figure1: NOISE MONITORING LOCATIONS



1

| 6 | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | |

Noise Survey

2.2.1 Noise Monitoring Location Photographs



2.3 SURVEY EQUIPMENT

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

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



2

| 4 | C . | 11 | | n. | n | 2 | Α. |
|---|------------|----|---|----|---|----|----|
| 1 | 0 | - | 0 | | | 30 | H. |
| | | | | | | | |

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_{A00} Noise level exceeded for 90 % of measurement period (steady underlying noise level).
- L_{A10} Noise level exceeded for 10 % of measurement period.

A subjective analysis for the presence of tones and impulsive noise was also undertaken at each location.

2.5 METEOROLOGICAL CONDITIONS

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

3 NOISE SOURCES

The main noise sources at this facility include:

- A tipping shed where costumers tip rubbish from cars and trailers. The rubbish is deposited into a
 compaction area and is compacted and a container filled for removal off site. This tipping shed has a
 motor which operates the compactor. The tipping shed is not in continuous operation, rather
 infrequently as needed.
- A cardboard compactor.
- Customer's vehicles entering and exiting the facility.
- Customers using the various recycling and waste skips and areas.



3

16490-6003-A

February 2015

4 RESULTS

Table 1 Noise Monitoring Results

| Location | Date and Time | Ling dB | L _{ALID} dB | L _{ARD} dB | Tones | Description of Noise Sources | | | |
|---|---------------|--|---|---|---|---|--|--|--|
| Bi | 14:07-14:37 | 55 | 52 | 31 | 17-11-17 | The main contributing noise sources at this location inclu | | | |
| (boundary location, west) | 14:37-15:07 | 58 | 61 | 38 | No | customers using facility, the tipping shed in operation and the | | | |
| (NUCLOW OT 1. CONVERSION (N. C. | 15:07-15:37 | 49 | 49 | 37 | | cardboard compactor. | | | |
| 68. | 11:30-12:00 | 54 | 35 | 37 | | The main contributing noise sources at this location included | | | |
| 82 (st weighbridge) | 12:00-12:30 | 48 | 52 | 32 38 No customers using occasional custor road also contribut 48 34 No noise from till | customers using facility, the tipping shed in operation and occasional customer's cars. HGVs passing on the adjacent local | | | | |
| | 12:30-13:00 | 50 | 53 | 33 | | road also contributed. | | | |
| | 13:00:13:30 | 51 | 48 | 34 | | No noise from the waste transfer station was audible at this | | | |
| B3 (off site at forestry gates) | 13:30-14:00 | 53 | 30 | 35 | No | location. Local traffic on the adjacent third class road at | | | |
| 4 1068 002 | 14:00-14:30 | 51 | 48 | 32 | | birdsong were the main contributors to the noise level at this location. | | | |
| 84 | 14:35-15:05 | 50 | 45 | 33 | | No noise from the waste transfer station was audible at this | | | |
| (entrance to nearest | 15:05 - 15:35 | 51 | 46 | 35 | | location with the exception of faint breaking glass noise from | | | |
| dwelling north east of the facility] | 15:35 -16:05 | 15:35-16:03 49 47 36 No bottle bank. Wind bor the local third class | bottle bank. Wind borne noise and background traffic noise from the local third class road were the main contributing noise sources at this location. | | | | | | |

Noise Survey

It was not possible to get a full 30 minutes monitoring per rotation at B3 and B4, the measurements averaged approximately 15 minutes per rotation, due to frequent heavy showers. However a subjective analysis of the ambient noise during the survey period indicated with confidence that noise levels would not have changed significantly over a 30 minute period and that noise from the waste transfer station did not contribute significantly to the ambient noise levels at these locations.



4

5 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 background noise level ranged from 31 to 38 L_{sod} (B (A) which demonstrates the quiet rural nature of the area. The measured noise level of L_{seq} 49 dB to L_{seq} 53 dB is below the noise limit of 55db(A) at the off site locations. A noise level of 58dB (A) was measured at B1. This can be attributed to vehicles idling at the nearby recycling area.

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

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



16490-6002-A

Noise Survey

January 2015

Appendix 1 Calibration Certificates





Certificate of Calibration and Conformance

Certificate Number 2014-189699

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

New Instrument

Date Calibrated: 16 Apr 2014 Calibration due:

Calibration Standards Used

| MANUFACTURER | MODEL | SERIAL NUMBER | INTERVAL | CAL DUE | TRACEABILITY NO |
|----------------------|--------------|---------------|-----------|-------------|-----------------|
| Agilent Technologies | 34401A | MY41044529 | 12 Months | 4 Feb 2015 | 6396720 |
| Larson Davis | LDSigGn/2209 | 0277/0109 | 12 Months | 12 Mar 2015 | 2014-187602 |

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

Calibration Environmental Conditions

Affirmations

Temperature: 23 ° Centigrade

Relative Humidity: 50 %

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

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

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

Signed Ron Harris

Technician: Ron Harris

Page 1 of 1

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

PCB PIEZOTRONICS

Certificate of Calibration and Conformance

Certificate Number 2014-189710

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

New Instrument Date Calibrated: 16 Apr 2014 Calibration due:

Temperature: 23 * Centigrade

Calibration Standards Used

| MODEL | SERIAL NUMBER | INTERVAL | CAL DUE | TRACEABILITY NO |
|--------------|---------------|-----------|-------------|---|
| LDSigGn/2209 | 0277/0109 | 12 Months | 12 Mar 2016 | 2014-187602 |
| | | | | A STATE OF THE PROPERTY AND |

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

Calibration Environmental Conditions

Relative Humidity: 50 %

Affirmations

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

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

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

Tested with PRM828-2952

anis Signed: on Technician: Ron Harris

Page 1 of 1

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



Certificate of Calibration

| | | | Page 1 of 8 | | | | | |
|----------------------------------|--|---|--|--|--|--|--|--|
| Appendi | x C of the Motuai kerognition A | ation and Measurement Capabil urangement (MAA) drawn up by all participating institutes recog- nt reports for quantities, ranges www.bipm.org) | the International Committee to | | | | | |
| Date of Calibration | 16 Jan 2013 Date of Issue 16 Jan 2013 | | | | | | | |
| | Oliver Power | | Paul Hetherington | | | | | |
| Calibrated by | OburPara | Approved by | 1º. Helle | | | | | |
| Calibration Standards | SR D5360 Signal Gene Agilent 34401A Digital B&K 4134 Measuring / B&K 4228 Pistonphon | ation System incorporatin rator, No. 0735, [Cai. Due I Multimeter, No. 0736 [Ca Microphone, No. 0743 [Ca e, No. 0749 [Cai. Due Date alibrator, No. 0150, [Cai. I | Date: 17 Jul 2013] al Due Date: 11 Jul 2013] I Due Date: 17 Apr 2014] : 08 Aug 2014] | | | | | |
| Method | The above sound level meter was allowed to stabilise for a suitable period in laboratory conditions. The verification checks performed are those outlined in BS7580.Pt 1 (1997). Specification for the verification of sound level meters. This British Standard specifies a procedure for the periodic verification of conformance of a sound level meter or integrating-averaging meter to EEC60651 (1994) and IEC60804 (2000), respectively. Prior to calibration the Instrument was tested, and its overall sensitivity adjusted in accordance with Clause 5.4 of BS 7580. Pt 1 using its associated sound level calibrator. | | | | | | | |
| NML Procedure Number | AP-NM-09 | | | | | | | |
| Order Number Date Received | MWP130108 09 Jan 2013 | | | | | | | |
| Client ID Number | | | | | | | | |
| Item Calibrated Serial Number | Bruel & Kjaer Type 2250 "Light"Sound Level Meter and 4950 Microphone 2654709 and 2657422 (microphone) | | | | | | | |
| Certificate Number | E130118 | | | | | | | |
| Attention of | Peter Barry | | | | | | | |
| | Tralee, Co Kerry | | | | | | | |
| | Reen Point Blennerville | | | | | | | |
| Issued to | Malachy Walsh | de l'alternaria | | | | | | |

Gtas Naion | Bałe Átha Cinth 11 | Eire Glasnevin | Dublin 11 | Ireland T+ 353 1 808 2809 | F+353 1 808 2803 | NSALie



Certificate of Calibration

| | Calmet Limited 1E Three Rock Road Sandyford Industrial Estate Dublin 18 | | | | | | | |
|---------------------------------------|--|------------------------|----------------------------------|--|--|--|--|--|
| Attention of | Gerry Segrave | | | | | | | |
| Certificate Number Item Calibrated | E14202 Bruel & Kjaer Type 4231 | Sound Level Calibrator | | | | | | |
| Serial Number | 2665058 | | | | | | | |
| Client ID Number | 71135 | | | | | | | |
| Order Number Date Received | 10 Apr 2014 | | | | | | | |
| NML Procedure Number | AP-NM-13 | | | | | | | |
| Method | The above calibrator was allowed to stabilize for a suitable period in laboratory conditions. It was then calibrated by measuring the sound pressure level generated in its measuring cavity (half-incl configuration). The calibrator's operating frequency was also measured. Norsonic 1504A Calibration System incorporating: Agilent 3440LA Multimeter, No. 0736 [Cal due date: 10 Jul 2014] B & K 4134 Measuring Microphone, No. 0743 [Cal due date: 23 Jan 2015] B & K 4228 Pistonphone, No. 0740 [Cal due: 23 Jan 2015] | | | | | | | |
| Calibration Standards | | | | | | | | |
| | | | | | | | | |
| | en Pala | | 011.11 | | | | | |
| Calibrated by | S- B42 | Approved by | P-Hell | | | | | |
| | Sam Boles | M IF | Paul Hetherington | | | | | |
| Date of Calibration | THE REPORT OF TH | Date of Issue | Paul Hetherington 22 Apr 2014 | | | | | |

Oles Naion | Bale Ätha Clath 11 | Eire Olesnevin | Dubin 11 | Ireland - T+ 353 1 909 2609 | F+353 1 908 2603 | NSA|,ie

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February 2015

Appendix 2 Glossary of Noise Related Terms

Noise Survey



| A | 0-6003- |
|---|---------|
|---|---------|

Noise Survey

Ambient Noise

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

Background noise level

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

EPA

Day: 0800 hrs to 2200 hrs Night: 2200 hrs to 0800 hrs

Decibel (dB)

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

dB(A)

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

Hertz (Hz)

Unit of frequency (pitch) of a sound

Impulsive Noise

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

1/3 Octave band analysis

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

LAeq

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

L(A)10

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

L(A)₉₀

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



Noise

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

Noise Sensitive Receptor

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

Rating level L 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 VI - <u>AER/PRTR Return 2014</u>

| Sheet : Facility ID Activities | AER Returns Workbook 18/2/2015 17:19 |
|--|---|
| Environmental Protection Agency | PRTR#: W0086 Facility Name : Kenmare Transfer Station Flename : W0086_2014 (1).sts Return Year : 2014 Guidance to completing the PRTR workbook AER Returns Workbook |
| | Version 1.1.18 |
| REFERENCE YEAR | 2014 |
| 1. FACILITY IDENTIFICATION | |
| Parent Company Name | Kerry County Council |
| PRTR Identification Number | Kenmare Transfer Station |
| Licence Number | |
| Literite Multiper | M0000-01 |
| Classes of Activity | |
| | class_name |
| - | Refer to PRTR class activities below |
| | |
| Address 1 | Claddanure West |
| Address 1 Address 2 | |
| Address 2 | nenin kire |
| Address 4 | |
| | |
| | Kerry |
| Country | Ireland |
| Coordinates of Location River Basin District | -9.6227 51.9012 |
| River Basin District | IESW |
| NACE Code | |
| AER Returns Contact Name | Treatment and disposal of non-hazardous waste |
| AER Returns Contact Email Address | tara o carroli demono je |
| AER Returns Contact Position | |
| AER Returns Contact Telephone Number | |
| AER Returns Contact Mobile Phone Number | 0879129535 |
| AER Returns Contact Fax Number | |
| Production Volume | 0.0 |
| Production Volume Units | |
| Number of Installations Number of Operating Hours in Year | 2184 |
| Number of Operating Hours in Year Number of Employees | 2104 |
| User Feedback/Comments | 20 03 01 is split between NKL W0001 disposal and KWD recycling W0217. recovery Cardboard |
| out recountry of ments | divided between Greenstar Jan - June and Dillon Waste July - Dec. |
| | Comparison to 2013 return |
| | 13 02 04 -0.9t |
| Web Address | www.kerrycoco.ie |
| 2 PDTD CLASS ACTIVITIES | |
| 2. PRTR CLASS ACTIVITIES Activity Number | Activity Name |
| 50.1 | General |
| 50.1 | General |
| | |
| 3. SOLVENTS REGULATIONS (S.I. No. 543 of 20 | 02) |
| Is it applicable? | |
| Have you been granted an exemption ? | |
| If applicable which activity class applies (as per Schedulo 2 of the regulations) 2 | |
| Schedule 2 of the regulations) ? Is the reduction scheme compliance route being | |
| used ? | |
| useu : | |
| 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) ? | |

| PRTR# : W0086 | Facility Name : Kenmare Transfer Station | Filename : W0086_2014 (1).xls | Return Year : 2014 |

Page 1 of 1

Sheet : Treatment Transfers of Waste

AER Returns Workbook

27/2/2015 13:12

27/02/2015 13:12

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE Please enter all quantities on this sheet in Tonnes

| | | | Quantity (Tonnes per Year) | | Waste | | Method Used | _ | Haz Waste : Name and Licence/Permit No of Next Destination Facility <u>Non Haz Waste</u> Name and Licence/Permit No of Recover/Disposer | Haz Waste - Address of Next Destination Facility <u>Non Haz Waste</u> Address of Recover/Disposer | Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY) | Actual Address of Final Destination (e. Final Recovery/ Disposal Site (HAZARDOUS WASTE ONLY) |
|---------------------|------------------------|-----------|----------------------------------|--|------------------------|-------|-------------|--------------------------|---|---|--|--|
| ransfer Destination | European Waste Code | Hazardous | | Description of Waste | Treatment Operation | M/C/E | Method Used | Location of Treatment | | | | |
| Vithin the Country | 20 03 01 | No | 440.66 | mixed municipal waste | D1 | м | Weighed | Offsite in Ireland | 04 | Muingnaminnane, Tralee,Co unty Kerry,Ireland | | |
| Vithin the Country | 20 03 01 | No | 379.3 | mixed municipal waste | R3 | м | Weighed | Offsite in Ireland | Killamey Waste Disposal, W0217-01 | Aughacureen, "Killarney, Cou nty Kerry, Ireland | | |
| Vithin the Country | 15 01 08 | No | 11.48 | mixed packaging | R3 | м | Weighed | Offsite in Ireland | Killarney Waste Disposal, W0217-01 | Aughacureen, ,,Killamey,Cou nty Kerry,Ireland Sarsfield Court Industrial | | |
| Vithin the Country | 15 01 01 | No | 10.32 | paper and cardboard packaging | R3 | м | Weighed | Offsite in Ireland | Greenstar,WFP-CK-10-0047- 02 | | | |
| Vithin the Country | 15 01 01 | No | 12.16 | paper and cardboard packaging | R3 | м | Weighed | Offsite in Ireland | Dillon Waste,WFP/KY/10/0001/01 | The Kerries,,Tralee,County Kerry,Ireland | | |
| Vithin the Country | 20 01 01 | No | 88.12 | paper and cardboard | R3 | м | Weighed | Offsite in Ireland | Dillon Waste,WFP/KY/10/0001/01 | The Kerries, ,,Tralee,County Kerry,Ireland | | |
| Vithin the Country | 15 01 07 | No | 63.653 | glass packaging | Rő | м | Weighed | Offsite in Ireland | Dillon Waste,WFP/KY/10/0001/01 | The Kerries, ,,Tralee,County Kerry,Ireland | | |
| Vithin the Country | 15 01 04 | No | 7.045 | metallic packaging | R4 | м | Weighed | Offsite in Ireland | Dillon Waste,WFP/KY/10/0001/01 | The Kerries, "Tralee, County Kerry, Ireland Eastway Business | | |
| Vithin the Country | 20 01 40 | No | 49.7 | metals | R4 | м | Weighed | Offsite in Ireland | United Metals,WFP-LK-2013- 147A-R1 | | | |
| Vithin the Country | 15 01 02 | No | 42.325 | plastic packaging | R3 | м | Weighed | Offsite in Ireland | | The Kerries,Tralee,County Kerry,Ireland Belgard | | |
| Vithin the Country | 20 01 11 | No | | textiles | R3 | м | Weighed | Offsite in Ireland | | Road, Tallagh, Dublin24,Irela nd Clonminam Industrial | | |
| Vithin the Country | 20 01 34 | No | | batteries and accumulators other than those mentioned in 20 01 33 | R4 | м | Weighed | Offsite in Ireland | Enva,W0184-1 | Estate,Portlaoise,County Laois,Ireland Clonminam Industrial | ENVA Ireland, W0184- | |
| Vithin the Country | 13 02 08 | Yes | 0.36 | other engine, gear and lubricating oils | R1 | м | Weighed | Offsite in Ireland | Enva,W0184-1 | Estate,,Portlaoise,County Laois,Ireland | 01,Clonmainam,Portlaoise,C o Laois,,,Ireland | Clonmainam, Portlaoise, Co Laois, , Ireland |
| o Other Countries | 20 01 21 | Yes | 0.355 | discarded electrical and electronic | Rő | м | Weighed | Abroad | KMK Metals,W0113-01 | Cappinour Industrial estateTuliamore,County Offaly,Ireland | Alba Service GmbH & Co. KG,E56657020,Kanalstrasse 64,Rheine,48432,Germany The Recycling | |
| Vithin the Country | 20 01 35 | Yes | | equipment other than those mentioned in 20 01 21 and and 20 01 23 containing hazardous components | R4 | м | Weighed | Offsite in Ireland | | Block 648, Jordanstown Drive, Greenogue Ind Est, Dublin, Ireland | Village,WFP/LH/10/W010/01 Monasterboise,County Louth,Ireland European Metal | Monasterboise,County Louth,Ireland |
| | | | | discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 23 containing | | | | | Eletrical Waste Management WFP-DS-11- | Block 648, Jordanstown Drive, Greenogue Ind | Recycling,WML 101767,Alexander Dock 1,Bootle Liverpool L201BX.United | Alexander Dock 1,Bootle Liverpool,L201BX,United |
| o Other Countries | 20 01 35 | Yes | 24.187 | hazardous components | R4 | м | Weighed | Abroad | 0014-04 Eletrical Waste | Est, Dublin, Ireland Block 648, Jordanstown | Kingdom | Kingdom |
| o Other Countries | 16 02 14 | No | | discarded equipment other than those mentioned in 16 02 09 to 16 02 13 | R4 | м | Weighed | Abroad | Management, WHP-DS-11- 0014-04 | Drive, Greenogue Ind Est, Dublin, Ireland | European Metal Recycling,WML 101767 Alexander Dock | |
| o Other Countries | 16 02 11 | Yes | | discarded equipment containing chlorofluorocarbons, HCFC, HFC | R4 | м | Weighed | Abroad | Eletrical Waste Management,WFP-DS-11- 0014-04 | Block 648, Jordanstown Drive, Greenogue Ind Est, Dublin, Ireland Kenmare Waste Water Treatement | 101/6/,Alexander Dock 1,Bootle ,Liverpool,L201BX,United Kingdom | Alexander Dock 1,Bootle ,Liverpool,L201BX,United Kingdom |
| Vithin the Country | 10.07.03 | No | | landfill leachate other than those mentioned in 19 07 02 | DB | м | Weighed | Offsite in Ireland | Kenmare Waste Water Treatement Plant, Irish Water | Plant,Kenmare,Co | | |

| PRTR# : W0088 | Facility Name : Kenmare Transfer Station | Filename : W0086_2014 v2 27.02.205.xism | Return Year : 2014 |

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