

WATERFORD CARPETS LTD
ANNUAL ENVIRONMENTAL REPORT
2013

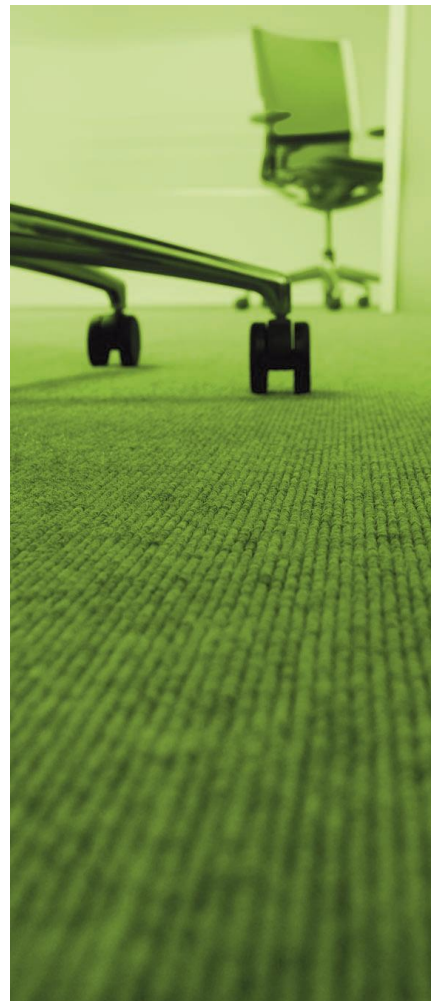


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1.0 Introduction

This Annual Environmental Report (AER) for Waterford Carpets Ltd presents information for the period from 1st January to the 31st December 2013. The report format follows *EPA Guidance Note for Annual Environmental Report*.

The following items are included in this report:

- Summary of emissions to atmosphere
- Summary of emissions to water
- Waste management report
- Resource consumption summary
- Complaints summary
- Reported incidents summary
- Environmental management programme report and proposal
- Schedule of objectives and targets
- Noise survey results summary
- Water usage report

Waterford Carpets Ltd. has developed its environmental policy as part of its environmental management system. The company has been granted with ISO 14001 Environmental Management Systems Standard Certification in October 2008.

1.1 Company Details

| | |
|--------------------------|---|
| Licence Register Number: | P0510-01 |
| Name: | Waterford Carpets Limited. |
| Address: | Unit 201 Cork Road Industrial Park, Waterford. |
| Contact Information: | Mr. Noel Cunningham Managing Director Tel: 051-375941 Email: ncunningham@tretford.ie |
| | Mr. Bart Zdrojowy Environmental / Technical Manager Email: bart@tretford.ie |

1.2 Company Description

Waterford Carpets Limited has been in operation since September 1969 in the IDA Industrial Park Waterford. Waterford Carpets Limited manufactures a ribbed heavy contract non-woven carpet. This carpet is manufactured under the trade name **tretford**. The carpet is manufactured from a combination of goat hair, nylon, rayon and wool.

No dyeing or treatment of the carpet takes place on the site at present, nor does the process of moth proofing.

Waterford Carpets Limited operates a continuous production system from 08:00 Monday to 08:00 Saturday on a three-shift rota system. Over 2009 - 2013 period production was run in short time patterns.

At present Waterford Carpets Limited employs 35 personnel.

Waterford Carpets management and staff recognise the importance of environmental protection as an essential requirement of its operations. Among the stated values of Waterford Carpets are the following:

- That our products will be safe to make and to use.
- We will conserve natural resources and we will continue to invest in better environment protection.
- Waterford Carpets Ltd. will undertake to conduct its business in a manner, which protects the environment of the Customers, Employees and Community in which it operates.

The challenge is to achieve a high quality environment, to this end; the company is committed to continuous improvement - "reduce, reuse & recycle"- at all levels throughout the organisation.

1.3 Environmental Policy

The General Management of Waterford Carpets Limited is committed to pollution prevention and environmental protection at its facility. Waterford Carpets Limited aims to achieve the highest standards of environmental performance in the interest of all our stakeholders, whether they are employees, neighbours, the general public or the natural environment.

Waterford Carpets Limited is committed to complying with all environmental legislation and regulations that may apply to the industry and we will make every effort to comply with the requirements of our Integrated Pollution Control Licence. We will adhere to the principles of responsible care and we strive for continuous improvement in its implementation.

By preparing and implementing an Environmental Management System, which will include policies, objectives and targets, we will administer a continuous programme designed to ensure that the products manufactured at Waterford Carpets Limited will not compromise or damage the environment.

Waterford Carpets Limited will review the Environmental Management System annually. We will also review our environmental aspects register and set Environmental Objectives and targets accordingly.

Waterford Carpets will examine and evaluate the environmental implications of any processes and products, and cleaner technologies will be investigated and utilised where possible. Waste avoidance and reduction plus a waste recycling initiative will be vigorously pursued and implemented.

Waterford Carpets will continuously examine, evaluate and review energy usage in its manufacturing processes and implement an energy conservation programme. We will ensure that adequate operational procedures and emergency plans are implemented and reviewed on an ongoing basis. We will ensure that our employees receive adequate training in relation to our environmental policies and procedures and will review these training needs as may be required.

We are committed to continuous improvement of our Environmental Management System and we will ensure that it shall be integrated at all levels within our organisation. We will strive for ever- improving environmental performance and we will strive to protect the environment for our employees, neighbours and all our other stakeholders.

Noel Cunningham
Managing Director

1.4 Company Organisation Chart

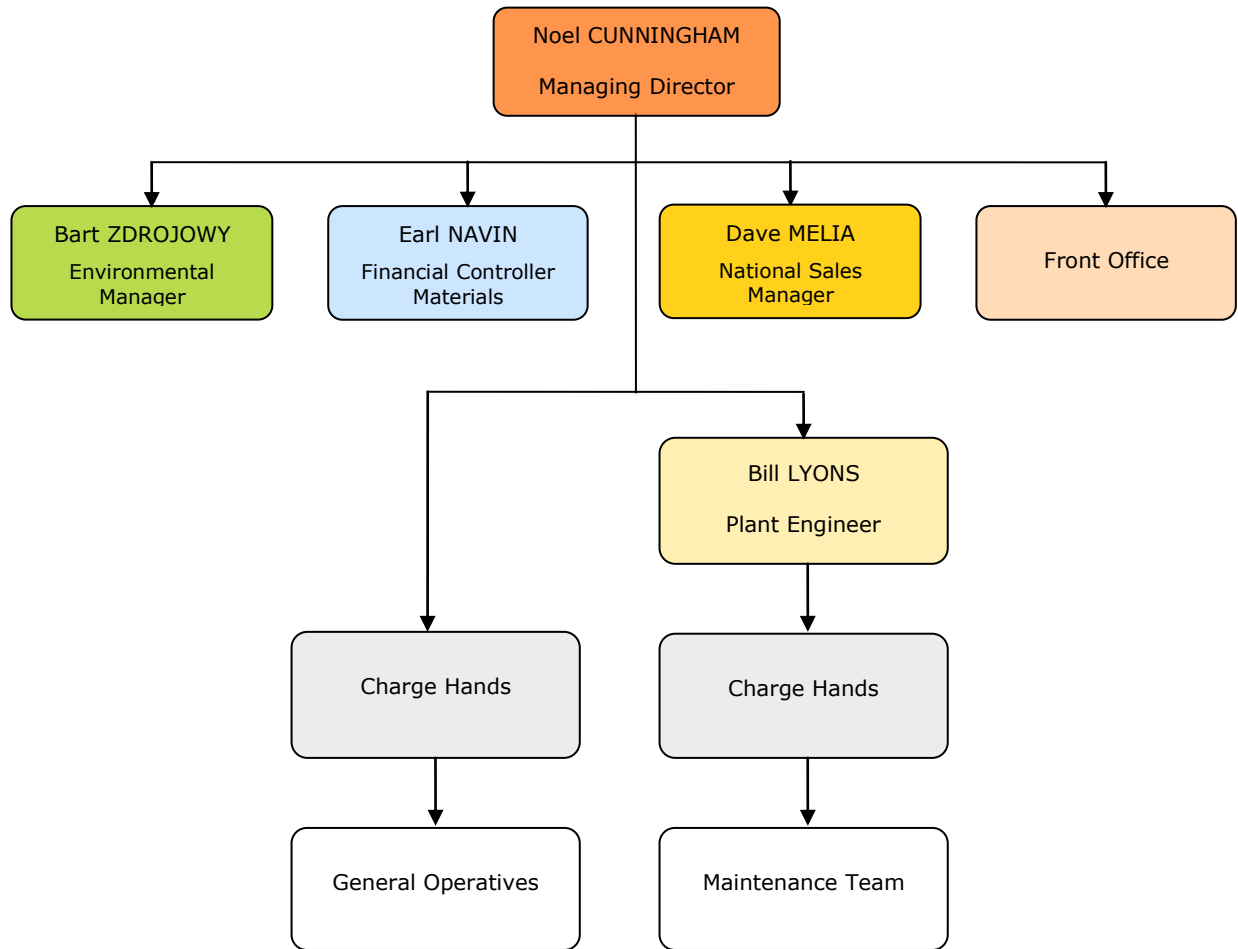


Figure 1. Organisation Chart for Waterford Carpets Ltd.

NB. Environmental Manager has direct environmental responsibilities. All other employees have support roles.

2.0 SUMMARY INFORMATION

This section contains a summary of the information regarding:

- Annual emissions data, including discharges to waters, air emissions, waste management and noise.
- Energy and water usage
- Environmental incidents and complaints

This section of the AER provides summary data on emissions/discharges to various environmental media from the Waterford Carpets site.

2.1 Emissions to Sewer

This section of the AER provides information pertaining to Waterford Carpets emissions to sewer. The emissions to sewer data indicate overall compliance with the IPPC emission limit values (ELV's). There were no non-compliances recorded during 2013.

Table 1. Emissions to Sewer for 2009 – 2013

| Parameter | 22/12/2009 | 15/12/2010 | 01/12/2011 | 20/11/2012 | 26/11/2013 | Limit Value | Monitoring Frequency |
|-------------------------|------------|------------|------------|------------|------------|-------------|----------------------|
| Temperature | 15°C | 19°C | 21°C | 22°C | 20°C | 40°C max | Annually |
| PH | 7.5 | 7.1 | 7.6 | 7.1 | 7.2 | 6-9 | Annually |
| BOD (mg/L) | 10 | 9 | 11 | 10 | 11 | 60 | Annually |
| COD (mg/L) | 104 | 95 | 104 | 82 | 76 | 1000 | Annually |
| Suspended Solids (mg/L) | 5 | 6 | 5 | 4 | 6 | 120 | Annually |

2.2 Emissions to Surface Waters

Waterford Carpets discharges non-process water at discharge points SE2 in accordance with Schedule 4(i) of the IPPC Licence (Reg. No. P0510-01).

Non-process water consists of:

- Storm water run-off from roofs.
- Storm water run-off from areas including car parks and paved areas.

Surface water discharges at SE2 are measured on a quarterly basis for pH, COD and conductivity. A visual inspection takes place twice weekly.

A summary of the surface water discharge monitoring results is outlined in the table below.

Table 2 Results of Surface Water Monitoring for 2009 – 2013 (SE2)

| | | | | | | | |
|----|----------------------|------------|------------|------------|------------|------------|-------------|
| Q1 | | 17/01/2009 | 9/03/2010 | 15/03/2011 | 30/03/2012 | 24/01/2013 | Limit Value |
| | pH | 7.5 | n/a* | 6.9 | 7.1 | 6.9 | 6-9 |
| | COD (mg/l) | 10 | n/a* | 26 | 26 | 42 | - |
| | Conductivity (uS/cm) | 154 | n/a* | 140 | 109 | 103 | - |
| Q2 | | 15/04/2009 | 25/06/2010 | 21/06/2011 | 20/06/2012 | 09/05/2013 | Limit Value |
| | pH | 7.1 | 7.2 | 7.1 | 6.9 | 7.2 | 6-9 |
| | COD (mg/l) | 12 | 21 | 20 | 41 | 35 | - |
| | Conductivity (uS/cm) | 161 | 154 | 110 | 152 | 187 | - |
| Q3 | | 08/09/2009 | 18/08/2010 | 14/09/2011 | 05/09/2012 | 16/09/2013 | Limit Value |
| | pH | 7.2 | 7.2 | 6.4 | 7.5 | 7.1 | 6-9 |
| | COD (mg/l) | 18 | 11 | 17 | 40 | 45 | - |
| | Conductivity (uS/cm) | 138 | 164 | 106 | 127 | 156 | - |
| Q4 | | 22/12/2009 | 13/10/2009 | 01/12/2011 | 20/11/2012 | 26/11/2013 | Limit Value |
| | pH | 7.1 | 7.1 | 7.2 | 7.0 | 7.4 | 6-9 |
| | COD (mg/l) | 14 | 14 | 19 | 39 | 71 | - |
| | Conductivity (uS/cm) | 109 | 103 | 127 | 114 | 173 | - |

*While taking water sample for testing an oily contamination was found in water coming up from the industrial estate. EPA, IDA and Waterford City Council were informed and arrived on site. Sample contaminated, not fit for testing.

Since 2002 surface water monitoring results are within the limits set in IPPC licence Reg. No. P0510-01. No results are available prior to that.

2.3 Emissions to Atmosphere

The emissions to atmosphere monitoring at Waterford Carpets Ltd. was carried out to fulfil the requirements of Condition 5 and Schedule 1(i) of IPPC licence registration number P0510-01. Air Emissions Monitoring started in 2002; the results available since demonstrate compliance with the IPPC Licence limit value.

Table 3 Results of Air Emissions Monitoring for 2009 – 2013

| | A2-1 | A2-2 | A2-3 | A2-4 | A2-5 | A2-06 | Limit Value (mg/Nm ³): |
|----------------|---|--|--|---|--|---|------------------------------------|
| Sampling date: | 26/11/2013 10/12/2012 01/12/2011 08/03/2010 NIU | 26/11/2013 19/12/2012 15/03/2011 08/03/2010 22/12/2009 | 23/07/2013 20/12/2012 15/03/2011 15/12/2010 08/09/2009 | 23/07/2013 20/11/2012 15/03/2011 NIU 15/04/2009 | NIU NIU 01/12/2011 18/08/2010 22/12/2009 | 16/09/2013 10/12/2012 07/12/2011 13/10/2010 - | |
| 2013 | 6.17 | 4.46 | 10.89 | 7.94 | - | 3.16 | 50 |
| 2012 | 5.21 | 3.52 | 4.65 | 8.29 | - | 2.37 | 50 |
| 2011 | 1.01 | 4.30 | 7.15 | 5.31 | 6.48 | 2.01 | 50 |
| 2010 | 5.60 | 8.45 | 13.16 | - | 1.58 | 2.14 | 50 |
| 2009 | - | 7.74 | 4.63 | 2.11 | 2.50 | - | 50 |

NIU – Not in use

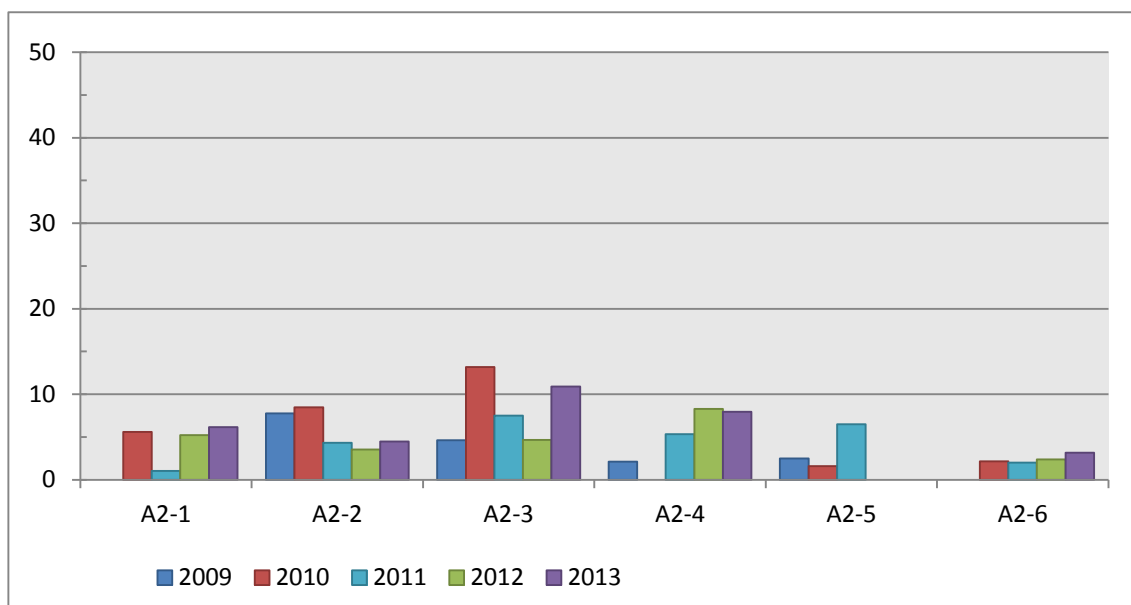


Figure 2 Particulate Emissions 2009-2013. ELV is set on 50mg/Nm³.

2.4 Waste Management

Waterford Carpets Ltd. maintains full details and records of all waste arising on site in accordance with Condition 7 of the IPPC Licence. This section of the Annual Environmental Report (AER) provides comprehensive information regarding these wastes.

A full record, which shall be open to inspection by authorised persons of the Agency at all times, shall be kept by the licensee on matters relating to the waste management operations and practices at this site.

The records shall as a minimum contain details of the following:

- The names of the agent and transporter of the waste.
- The name of the persons responsible for the ultimate disposal/recovery of the waste.
- The ultimate destination of the waste.
- The tonnage and EWC code for the waste materials listed in schedule 3(1) Hazardous Waste for Disposal/Recovery and schedule 3(2) Other Wastes for Disposal/Recovery sent off site for Disposal/Recovery.
- Details of any rejected consignments.
- The tonnage and EWC code for the waste materials listed in schedule 3(1) Hazardous Waste for Disposal/Recovery and schedule 3(2) Other Wastes for Disposal/Recovery recovered/disposed of on site.

A summary of the waste quantities generated at the Waterford Carpets site is included in Table 2.7. A copy of waste management record is attached.

2.4.1 Hazardous Waste

The main source of hazardous waste generated on-site is waste PVC adhesive. Other than that are MV lamps, fluorescent tubes and batteries. All hazardous wastes generated are stored in designated hazardous waste storage areas.

Indaver processes waste adhesive and fire-retardant while Irish Lamp Recycling collects mercury vapour lamps, fluorescent tubes and batteries.

No ILR collections were recorded in 2013.

2.4.2 Non-Hazardous Waste

The main disposed non-haz wastes include carpet trimmings and fibres and general (office/canteen) waste. Non-hazardous wastes destined for recovery were: baled cardboard and cardboard cores, timber pallets and boxes and scrap metal.

Table 4 Summary Information on Waste (2009 – 2013)

| | 2009 | 2010 | 2011 | 2012 | 2013 | Note |
|---|--------|--------|--------|--------|-------|---------------------|
| Total quantity of waste (Tonnes) | 128.60 | 198.43 | 138.32 | 129.24 | 95.45 | |
| disposed of off-site | 110.08 | 166.80 | 94.43 | 101.05 | 60.99 | D1 |
| recovered on-site | - | - | - | - | - | - |
| recovered off-site | 18.52 | 31.63 | 43.89 | 28.19 | 34.46 | R1, R3, R4, R5, R12 |
| Non-hazardous waste (Tonnes) | 127.84 | 198.40 | 135.60 | 129.24 | 91.96 | |
| disposed of off-site | 110.08 | 166.80 | 94.43 | 101.05 | 60.99 | D1 |
| recovered on-site | - | - | - | - | - | - |
| recovered off-site | 17.76 | 31.60 | 41.17 | 28.19 | 30.97 | R3, R4, R5 |
| Hazardous waste (Tonnes) | 0.76 | 0.03 | 2.72 | - | - | |
| disposed of off-site | - | - | - | - | - | - |
| recovered off-site | 0.76 | 0.03 | 2.72 | - | 3.49 | R1, R12 |

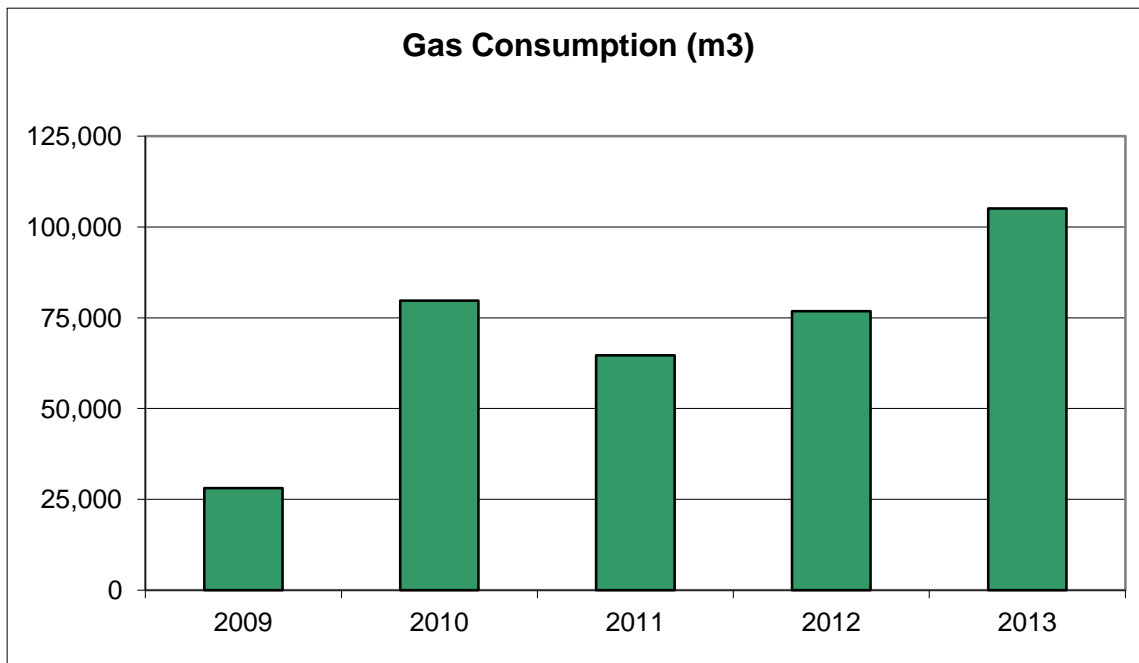
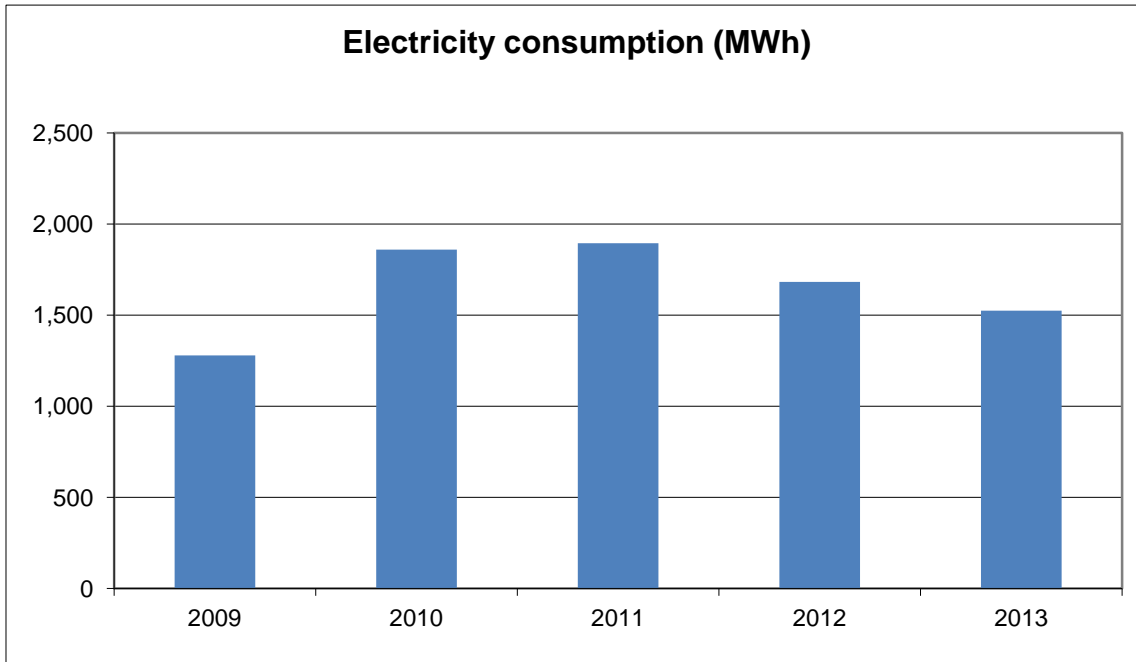
Table 5 Detailed information on Waste Streams 2013

| European Waste Catalogue Code | Haz (Yes/No) | Description of Waste | Quantity (t/year) | Disposal/ Recovery Code | Location of Disposal/ Recovery | Name of Waste Disposal/ Recovery Contractor |
|-------------------------------|--------------|---|-------------------|-------------------------|--------------------------------|---|
| Hazardous: | | | | | | |
| 08 04 09* | N | waste adhesives (...) containing organic solvents or other dangerous substances | 2.67 | R1 | (c) Moerdijk, The Netherlands | Afvalstoffen Terminal Moerdijk B.V. |
| 16 03 05* | N | organic wastes containing dangerous substances | 0.82 | R12 | (c) Moerdijk, The Netherlands | Afvalstoffen Terminal Moerdijk B.V. |
| Non hazardous: | | | | | | |
| 20 03 01 | N | mixed municipal waste | 60.99 | D1 | (b) Six Crossroads Bus. Pk | Greenstar |
| 20 01 01 | N | paper and cardboard | 29.05 | R3 | (b) Six Crossroads Bus. Pk | Greenstar |
| 20 01 38 | N | wood other | 1.92 | R3 | (b) Six Crossroads Bus. Pk | Greenstar |

(a) On-site; (b) Off-site (Ireland); (c) Off-site (abroad)

2.5 Energy Consumption (2009-2013)

| | 2009 | 2010 | 2011 | 2012 | 2013 |
|-----------------------|--------|--------|--------|--------|---------|
| Electricity (MWh) | 1,279 | 1,859 | 1,894 | 1,682 | 1,524 |
| Gas (m ³) | 28,122 | 79,714 | 64,676 | 76,802 | 105,052 |



2.6 Water Consumption (2009-2013)

Table 6 Water Consumption

| | 2009 | 2010 | 2011 | 2012 | 2013 |
|---------|-------|-------|-------|------|------|
| Cubic m | 1,253 | 2,530 | 1,597 | 933 | 860 |

Higher than usual water consumption in 2010 due to leakage from corroded water tank, tank replaced.

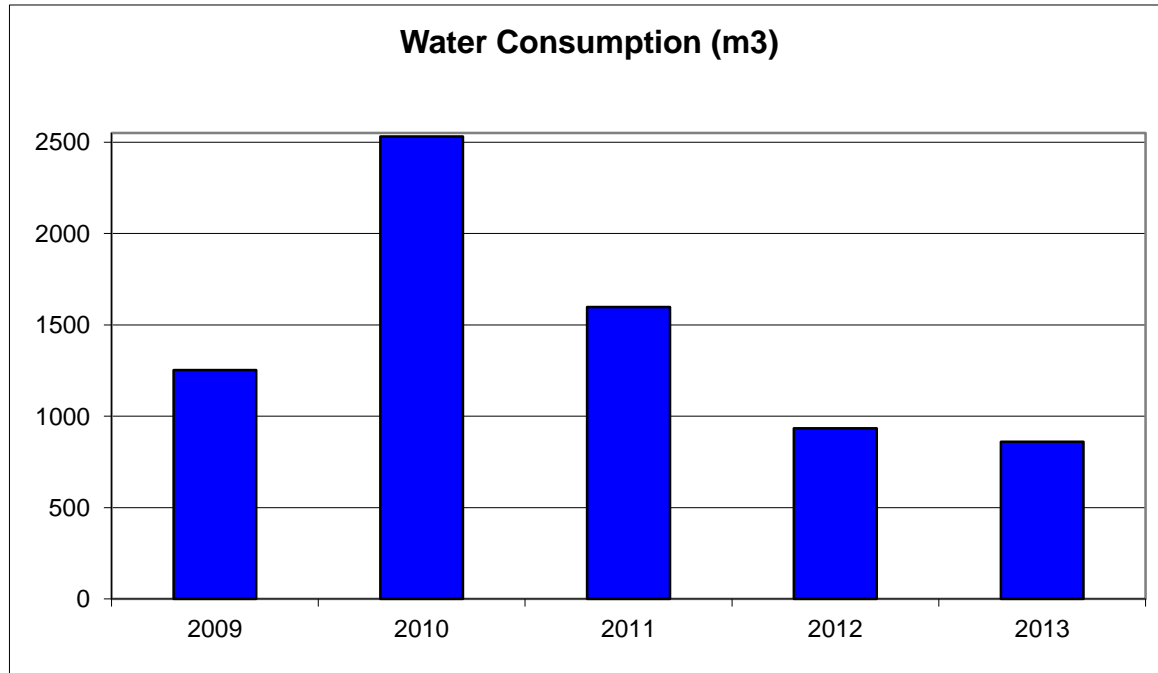


Figure 3 Water Consumption (m³)

2.7 Environmental Incidents and Complaints

There were no environmental incidents recorded or reported during the 2013 period

There was no environmental complaints received for the period
January to December 2013

2.8 Agency Monitoring and Enforcement

There was one unannounced visit by the agency to Waterford Carpets Ltd during 2013.

Inspection Reference Number: (P0510-01)sm12ma

This visit took place on the 21st October 2013 and was an unannounced visit by Dr. Magnus Amajirionwu of the EPA. Waterford Carpets Ltd was found to be non compliant with two conditions of their IPPC licence.

1. Underground Pipeline Testing

- The records of underground pipelines testing currently at the facility show that the pipelines were last tested on 10/06/2009. This is a non-compliance with Condition 10.3.5.

Corrective Action Required:

- The licensee shall comply with the Condition 10.3.5.

2. Bunding

- Not all of the bunds in use at the facility have been tested within the last three years. Bund integrity tests were last carried on 11/11/2009. This is a non-compliance with Condition 10.3.1.

Corrective Action Required:

- The licensee shall undertake testing of all bunds located on the facility that have not been tested within the last three years in accordance with Condition 10.3.1.

There was one inspection observation also noted which did not constitute non-compliances but should be addressed.

1. Stacking of IBCs

- A number of intermediate bulk containers (IBCs) containing remnant latex were observed stacked up on full IBCs with similar contents. The stacking of IBCs may compromise the capacity of the bund.

Corrective Action Required:

- The licensee shall ensure that IBCs stacked on top of other IBCs are completely emptied before stacking.

3.0 ENVIRONMENTAL MANAGEMENT

Waterford Carpets Ltd. operate and maintain the ISO 14001 certified Environmental Management System (EMS). Therefore the company has documented and implemented an EMS and complies with the requirements of Condition 2.2 of the IPPC Licence (Reg. P0510-01).

A schedule of Environmental Objectives and Targets has been developed by Waterford Carpets in accordance with Condition 2.2.2 of the IPPC Licence. These have been included in the Environmental Management Programme, which designates responsibility for the various objectives and targets. The EMP also outlines the means by which the Objectives and Targets may be achieved and the timescales involved in accordance with Condition 2.2.2.2 of the IPPC Licence. The EMP is revised and updated as required.

Programmes and procedures are in place to ensure effective management and control.

3.1 Environmental Objectives and Targets

| 2012 Schedule of Objectives and Targets | | | | |
|---|---------------------------------------|--|---|---|
| Prepared by: Bart Zdrojowy, Environmental Manager | | | | Date: February 2014 |
| Approved by: Noel Cunningham, Managing Director | | | | |
| | Target | Plan | Responsible Party | Timescale (for completion) |
| Objective 1 Waste 1.1 Non-hazardous waste 1.2 Hazardous waste Lower amount of landfill waste created per sqm of product | Waste production monitoring | Implement monitoring programme in each department | Environmental Manager | Complete by 1Q 2014. 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| | | Identify critical areas | Environmental Manager | Complete by 2Q 2014 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| | Alternative paths for landfill waste. | Investigate composting options | Environmental Manager | Complete by 1Q 2014 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| | | Investigate alternative use for small rolls / 2 nd grade / off-cuts | Environmental Manager | Complete by 2Q 2014 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| | | More effective collection and recycling of plastic wrapping | Environmental Manager | Complete by 3Q 2014 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Objective 2 Gas and Energy usage Control gas & energy usage. Lower CO2 emissions. | Track energy usage and charges | Review charges for 2013, renew contracts | Environmental Manager | Ongoing process. 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| | Lower CO2 emissions | 100% Green (renewable) Electricity Contract Re-signed | Managing Director / Environmental Manager | Completed 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| | Energy Efficiency Audit | Review recommendations | Environmental Manager / Plant Engineer / MD | Complete by 4Q 2014 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| | | Implement where possible | Environmental Manager / Plant Engineer | Complete by 2Q 2015 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

| | | | | |
|---------------------------------|------------------------|---|------------------------------------|--|
| Objective 3 Housekeeping | Glue Room Housekeeping | Header Tank Bund emptied + cleaned | Contractor / Environmental Manager | Complete by 4Q 2014 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| | | Hydrostatic tests carried out on all bunds | Environmental Manager | Complete by 4Q 2014 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| | Underground Pipelines | Conduct CCTV survey on underground rain water pipelines | Contractor / Environmental Manager | Complete by 4Q 2014 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1Q <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

4.0 LICENCE SPECIFIC REPORTS

4.1 Noise Survey

4.1.1 Boundary Noise Measurements

Table 7 Boundary Noise Monitoring Results (26/11/2013)

| Boundary Noise Day-time Results | | | | | | | |
|---------------------------------|---|---------------------------|---------------|-----------------------|-----------------------|-----------------------|---|
| Location No. | Location description | Measurement Period (Min.) | Sampling Time | L _{eq} dB(A) | L ₁₀ dB(A) | L ₉₀ dB(A) | Comments |
| 1 | South West Corner Across from workshop | 15 | 11:25 | 53 | 54 | 50 | Traffic on the Industrial Estate which was heavy and clearly audible at this location |
| 2 | West Face – Across from glue mixing | 15 | 11:30 | 52 | 53 | 48 | The predominant source of noise at this measurement location was traffic on the Industrial Estate which was heavy and clearly audible at this location. There was no audible noise from the Waterford Carpets facility. The roller shutter door to the Glue Mixing Area was closed during the measurement period. |
| 3 | North West Corner | 15 | 11:50 | 51 | 51 | 48 | The predominant source of noise at this measurement location was traffic on the Industrial Estate. No noise was audible from the factory. |
| 4 | North Face | 15 | 11:55 | 50 | 51 | 47 | The predominant source of noise at this measurement location was traffic on the Industrial Estate which was clearly audible at this location. There was no audible noise from the Waterford Carpets facility. |
| 5 | North East Corner | 15 | 12:14 | 50 | 48 | 45 | The predominant source of noise at this measurement location was traffic on the Industrial Estate and on Lismore Park Road. There was no noise audible from Waterford Carpets Ltd. |
| 6 | East Face – across from Loading Bay | 15 | 12:20 | 50 | 52 | 49 | The predominant source of noise at this measurement location was traffic on the Industrial Estate. |
| 7 | South east Corner – Main Entrance | 15 | 12:46 | 53 | 52 | 49 | The main source of noise at this measurement location was traffic on the Industrial Estate. There was no noise audible noise from the Waterford Carpets facility. |
| 8 | South Face | 15 | 12:50 | 55 | 54 | 50 | The main source of noise at this measurement location was traffic on the Industrial Estate. There was no noise audible noise from the Waterford Carpets facility. |

Results marked red exceeds the specified day-time limit of 55 dB(A)

4.1.2 Noise sensitive Locations

Table 8 Noise Sensitive Locations Day-time Monitoring Results (26/11/2013)

| Noise Sensitive Location Day-time Results | | | | | | | |
|---|----------------------|---------------------------|---------------|-----------------------|-----------------------|-----------------------|---|
| Location No. | Location description | Measurement Period (Min.) | Sampling Time | L _{eq} dB(A) | L ₁₀ dB(A) | L ₉₀ dB(A) | Comments |
| 9 | No. 10 Lismore Park | 15 | 13:40 | 53 | 54 | 50 | The predominant source of noise was traffic on Lismore Park Road, which was relatively light during the measurement period. |
| 10 | No. 95 Lismore Park | 15 | 14:00 | 54 | 53 | 50 | The predominant source of noise was traffic on Lismore Park Road, which was relatively light during the measurement period. No audible noise from the Waterford Carpets facility. |
| 11 | No. 112 Lismore Park | 15 | 14:20 | 51 | 53 | 50 | The predominant source of noise was traffic on Lismore Park Road, which was relatively light during the measurement period. There was no audible noise from the Waterford Carpets facility. |
| 12 | No. 123 Lismore Park | 15 | 14:41 | 46 | 54 | 49 | The predominant source of noise was traffic on Lismore Park Road, which was relatively light during the measurement period. There was no audible noise from the Waterford Carpets facility. |

Results marked **red** exceeds the specified day-time limit of 55 dB(A)

Table 9 Noise Sensitive Locations Night-time Monitoring Results (25/11/2013)

| Noise Sensitive Location Night-time Results | | | | | | | |
|---|----------------------|---------------------------|---------------|-----------------------|-----------------------|-----------------------|--|
| Location No. | Location description | Measurement Period (Min.) | Sampling Time | L _{eq} dB(A) | L ₁₀ dB(A) | L ₉₀ dB(A) | Comments |
| 9 | No. 10 Lismore Park | 15 | 23:40 | 43 | 46 | 42 | There was no audible noise from Waterford Carpets facility. Three vehicles passed close to the sound level meter during the monitoring period. |
| 10 | No. 95 Lismore Park | 15 | 00:01 | 42 | 43 | 40 | There was no audible noise from Waterford Carpets facility. 1 vehicle passed close to the sound level meter during the monitoring period. |
| 11 | No. 112 Lismore Park | 15 | 00:20 | 43 | 43 | 38 | There was no audible noise from the Waterford Carpets facility. |
| 12 | No. 123 Lismore Park | 15 | 00:40 | 43 | 42 | 38 | There was no audible noise from the Waterford Carpets facility. |

Results marked **red** exceed the specified night-time limit of 45 dB(A)

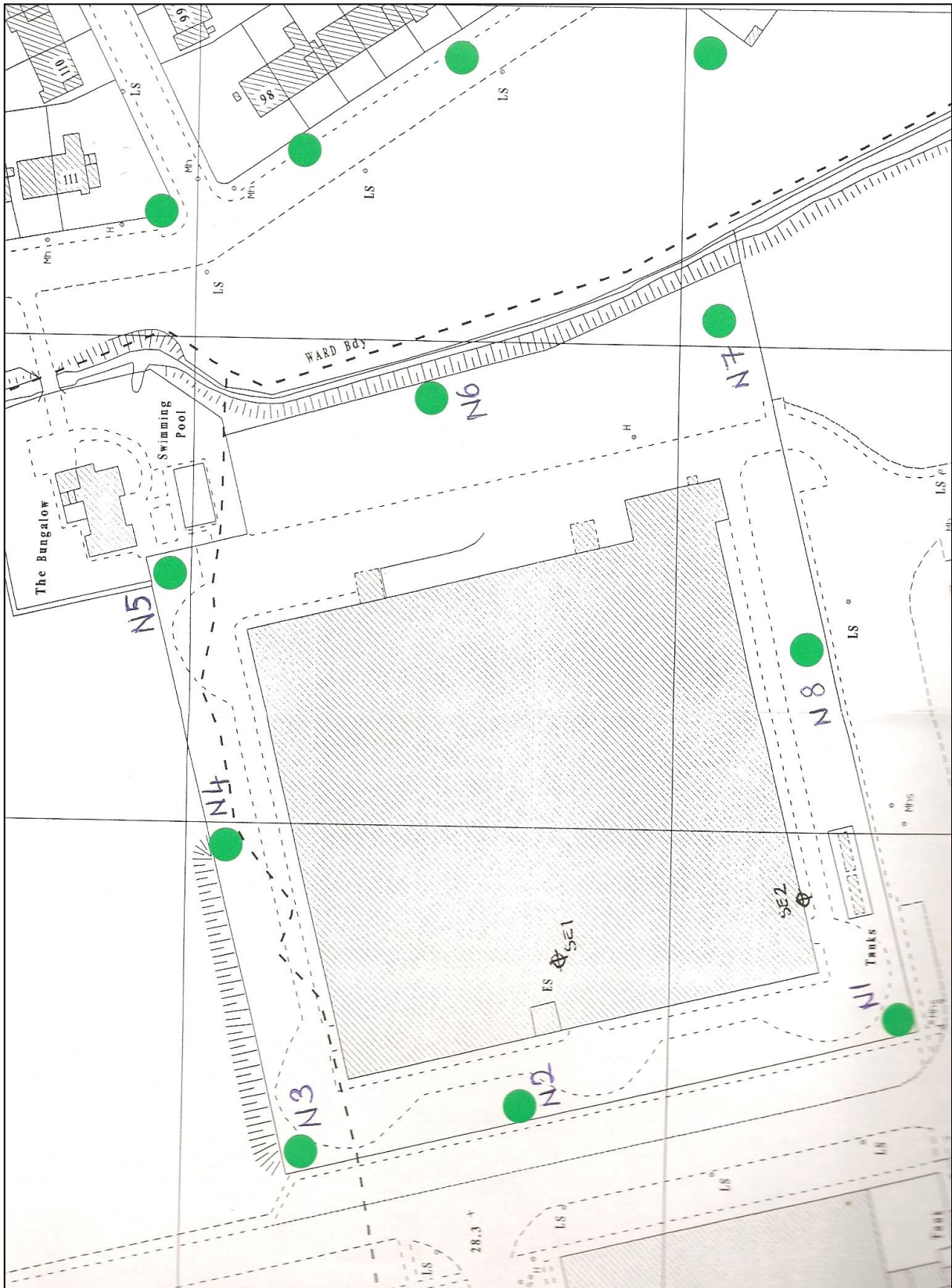


Figure 4 Location of noise monitoring points



Environmental Protection Agency

| PRTR# : P0510 | Facility Name : Waterford Carpets Limited | Filename : P0510_2013.xlsm | Return Year : 2013 |

[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.18

| | |
|-----------------------|------|
| REFERENCE YEAR | 2013 |
|-----------------------|------|

1. FACILITY IDENTIFICATION

| | |
|----------------------------|---------------------------|
| Parent Company Name | Waterford Carpets Limited |
| Facility Name | Waterford Carpets Limited |
| PRTR Identification Number | P0510 |
| Licence Number | P0510-01 |

Waste or IPPC Classes of Activity

| No. | class_name |
|-------|--|
| 8.5.2 | The dyeing, treatment or finishing (including moth-proofing and fireproofing) of fibres or textiles (including carpet) where the capacity exceeds 1 tonne per day of fibre, yarn or textile material, not included in paragraph 8.5.1. |

| | |
|--|--|
| Address 1 | Unit 201 |
| Address 2 | IDA Industrial Park |
| Address 3 | Cork Road |
| Address 4 | Waterford |
| | Cork |
| Country | Ireland |
| Coordinates of Location | -7.14475 52.2479 |
| River Basin District | IESE |
| NACE Code | 1393 |
| Main Economic Activity | Manufacture of carpets and rugs |
| AER Returns Contact Name | Bart Zdrojowy |
| AER Returns Contact Email Address | bart@tretford.ie |
| AER Returns Contact Position | Environmental Manager |
| AER Returns Contact Telephone Number | 051 375 941 |
| AER Returns Contact Mobile Phone Number | |
| AER Returns Contact Fax Number | 051 379 607 |
| Production Volume | 0.0 |
| Production Volume Units | |
| Number of Installations | 1 |
| Number of Operating Hours in Year | 0 |
| Number of Employees | 35 |
| User Feedback/Comments | Huge change in particulate emissions reported due to change in estimation model, now takes ACTUAL machine hours based on daily production reports. |
| Web Address | www.tretford.com |

2. PRTR CLASS ACTIVITIES

| Activity Number | Activity Name |
|-----------------|---------------|
|-----------------|---------------|

| | |
|------|---------|
| 50.1 | General |
|------|---------|

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

| | |
|---|----|
| Is it applicable? | No |
| 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) ? | No |
|--|----|

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : P0510 | Facility Name : Waterford Carpets Limited | Filename : P0510_2013.xlsm | Return Year : 2013 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

| RELEASERS TO AIR | | Please enter all quantities in this section in KGs | | | | | | |
|------------------|----------------|--|-------------|----------------------------|------------------|-------------------|------------------------|----------------------|
| No. Annex II | POLLUTANT Name | M/C/E | METHOD | | QUANTITY | | | |
| | | | 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

| RELEASERS TO AIR | | Please enter all quantities in this section in KGs | | | | | | QUANTITY | | | | | |
|------------------|---------------------------|--|-------------|--|------------------|------------------|------------------|------------------|--------------------|------------------|-------------------|------------------------|----------------------|
| No. Annex II | POLLUTANT Name | M/C/E | METHOD | | A2-01 | A2-02 | A2-03 | A2-04 | A2-05 (not in use) | A2-06 (dryer) | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | Method Code | Designation or Description | Emission Point 1 | Emission Point 2 | Emission Point 3 | Emission Point 4 | Emission Point 5 | Emission Point 6 | | | |
| 86 | Particulate matter (PM10) | E | ESTIMATE | (EN 13284-1:2002 Determination of Low Range Mass Concentration). Annual 30-min monitoring result (kg/hr) times ACTUAL production hours | 18,864 | 48,768 | 232,342 | 113,535 | 0.0 | 10,614 | 424,123 | 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)

| RELEASERS TO AIR | | Please enter all quantities in this section in KGs | | | | | | |
|------------------|----------------|--|-------------|----------------------------|------------------|-------------------|------------------------|----------------------|
| Pollutant No. | POLLUTANT Name | M/C/E | METHOD | | QUANTITY | | | |
| | | | 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: Please enter summary data on the quantities of methane flared and / or utilised | Waterford Carpets Limited | | | | Facility Total Capacity m3 per hour |
|--|---------------------------|-------|-------------|----------------------------|-------------------------------------|
| | T (Total) kg/Year | M/C/E | Method Code | Designation or Description | |
| Total estimated methane generation (as per site model) | 0.0 | | | | N/A |
| Methane flared | 0.0 | | | | 0.0 (Total Flaring Capacity) |
| Methane utilised in engine/s | 0.0 | | | | 0.0 (Total Utilising Capacity) |
| Net methane emission (as reported in Section A above) | 0.0 | | | | N/A |

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data.](#)

| PRTR# : P0510 | Facility Name : Waterford Carpets Limited | Filename : P0510_2013.xlsx | Return Y

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SECTION A : PRTR POLLUTANTS

| OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER | | | | | Please enter all quantities in this section in KGs | | | |
|--|------|--------|-------------|----------------------------|--|-------------------|------------------------|--------------|
| POLLUTANT | | METHOD | | | QUANTITY | | | |
| No. Annex II | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) |
| | | | | | Compressor outlet | 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 POLLUTANT EMISSIONS (as required in your Licence)

| OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER | | | | | Please enter all quantities in this section in KGs | | | |
|--|------------------|--------|-------------|--|--|-------------------|------------------------|--------------|
| POLLUTANT | | METHOD | | | QUANTITY | | | |
| Pollutant No. | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) |
| 303 | BOD | E | ESTIMATE | Sample taken directly. | | | | |
| 306 | COD | E | ESTIMATE | Lab analysis result | | | | |
| 240 | Suspended Solids | E | ESTIMATE | (mg/l)*estimated flow (0.4 l/hr)*40 wks*120 hrs/10*6 | Compressor outlet | 0.02112 | 0.02112 | 0.0 |
| | | | | | | 0.14592 | 0.14592 | 0.0 |
| | | | | | | 0.01152 | 0.01152 | 0.0 |

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : P0510 | Facility Name : Waterford Carpets Limited | Filename : P0510_2013.xlsm | Return Year : 2013 |

18/04/2014 13:01

Please enter all quantities on this sheet in Tonnes

0

| Transfer Destination | European Waste Code | Hazardous | Quantity (Tonnes per Year) | Description of Waste | Waste Treatment Operation | Method Used | | Location of Treatment | Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer | Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer | Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY) | Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY) |
|----------------------|---------------------|-----------|----------------------------|--|---------------------------|-------------|--------------------|-----------------------|--|--|--|--|
| | | | | | | M/C/E | Method Used | | | | | |
| Within the Country | 20 01 01 | No | 29.05 | paper and cardboard | R3 | M | Weighed | Offsite in Ireland | Greenstar Limited,W0177-03 / WCP-KK-11-54-02 | Unit 14a Six Cross Roads Business Park Carrignard,,Waterford City,,Ireland | | |
| Within the Country | 20 01 38 | No | 1.92 | wood other than that mentioned in 20 01 37 | R3 | M | Weighed | Offsite in Ireland | Greenstar Limited,W0177-03 / WCP-KK-11-54-02 | Unit 14a Six Cross Roads Business Park Carrignard,,Waterford City,,Ireland | | |
| Within the Country | 20 03 01 | No | 60.99 | mixed municipal waste | D1 | M | Weighed | Offsite in Ireland | Greenstar Limited,W0177-03 / WCP-KK-11-54-02 | Unit 14a Six Cross Roads Business Park Carrignard,,Waterford City,,Ireland | | |
| To Other Countries | 08 04 09 | Yes | 2.67 | waste adhesives and sealants containing organic solvents or other dangerous substances | R1 | M | Volume Calculation | Abroad | INDAVER IRELAND LIMITED,IRE/AG040/08 | Unit 11 South Ring Bus. Pk Kinsale Rd,,Cork,,Ireland | Afvalstoffen Terminal Moerdijk B.V.,,821780,Vlasweg,12,Moerdijk,4782 PW,Netherlands | Vlasweg,12,Moerdijk,4782 PW,Netherlands |
| To Other Countries | 16 03 05 | Yes | 0.822 | organic wastes containing dangerous substances | R12 | M | Volume Calculation | Abroad | INDAVER IRELAND LIMITED,IRE/AG040/08 | Unit 11 South Ring Bus. Pk Kinsale Rd,,Cork,,Ireland | Afvalstoffen Terminal Moerdijk B.V.,,821780,Vlasweg,12,Moerdijk,4782 PW,Netherlands | Vlasweg,12,Moerdijk,4782 PW,Netherlands |

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