



Environmental Efficiency
Consulting Engineers

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ANNUAL ENVIRONMENTAL REPORT

2008

For

Waterford Joinery Ltd.

IPC Licence P0350-01

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Address	Ballinamuck, Dungarvan, Co. Waterford.

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1. Introduction

1.1 Company Details

Company	Waterford Joinery Ltd.
Address	Ballinamuck
Town	Dungarvan
County / City	Waterford
Business	Joinery Manufacturer
Employees	18
Contact Name	Sean McGrath
Position	General Manager
Telephone	058 41417
Fax	058 42872

IPC Registration Number	P0350-01
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2. Site Description

2.1 Previous site histories

Prior to the establishment of Waterford Joinery the 3 hectares of land on which they are situated was a green field area, therefore there is no previous environmental impact associated with the site.

2.2 Company background

The company has been in operation since 1965 and employs approximately 18 people. Waterford Joinery produces timber products e.g. doors and frames. The main hours of operation are 08:30 – 16:00 Monday to Friday and overtime occurs occasionally.

2.3 Description of equipment

The list below is a description of the major pieces of equipment on site:

- Saws
- Drying kiln
- Vacuum impregnation facility
- Boilers
- Air compressors

2.4 Manufacturing process

The manufacturing process is as follows:

- Timber which is prepared is delivered to our client's site.
- Timber sawing and planing is carried out.
- Some timber is dried in the kiln.
- Small amounts of timber, which are on order from customers, are treated with a preservative i.e. Protim, via a vacuum impregnation process, as follows:

1. Timber is loaded into the treatment vessel.
2. A vacuum is created in the vessel chamber.
3. The preservative enters the chamber and contact is maintained.
4. The fluid is pumped out.

5. The door is opened to remove the treated product.
6. The treated product remains in the bunded area whilst excess preservative drains off

- Adhesive resin and hardener are mixed together and applied to the doors via rollers. Waterford Joinery has decreased their Fire Door production which will significantly decrease the use of resins and hardeners in 2006.
- Doors enter heated press to cure adhesive.
- Finished product is placed on pallets and distributed to or collected by customers.

2.5 Company Organisation

Managing Director

John McGrath

General Manager

Sean McGrath

Environmental Officer / Safety Officer

Sean McGrath

Maintenance

John Dee

3. Summary Information

3.1 Self-Monitoring Data

3.1.1 Emissions to Waters/Sewer

The IPC Licence requires no monitoring of emissions to waters/sewer.

3.1.2 Emissions to Atmosphere

The IPC Licence requires no monitoring of emissions to the atmosphere.

3.1.3 Waste Management

The tonnages and EWC Codes for the waste materials listed in Schedule 1 (i) Wastes for disposal/recovery: See Table below. Due to the economical downturn, the quantities of process waste have drastically decreased in 2008.

Table 1 Tonnages and EWC Codes for waste arising on-site

Waste	EWC No.	Hazardous (Yes/No)	Annual Quantity	Method of Disposal/Recovery	Location of Disposal/Recovery	Name of Transporter	Name of waste contractor
Paper ^{Note 2}	15 01 01	No	~80kg	Recycled	Recycling facility Shandon	Fennell Haulage and Waste Disposal	Fennell Haulage and Waste Disposal
Cardboard Boxes ^{Note 2}	15 01 01	No		Re-used and recycled	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Plastic Wrapping ^{Note 2}	15 01 02	No		Re-used as outgoing packaging	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Pallets	15 01 03	No	Medium	Re-used	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Metal Strapping	15 01 04	No	Small	Re-used	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Hazardous Containers	15 01 10*	Yes	None	Re-used for waste oils or contaminated sawdust	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Office/canteen waste ^{Note 3}	20 03 01	No	13,404kg	Landfill	Dunmore Landfill, Kilkenny County Council.	Fennell Haulage and Waste Disposal	Fennell Haulage and Waste Disposal
Waste oil	12 01 06*	Yes	None	Special facility at local landfill	Recycling facility Shandon.	Fennell Haulage and Waste Disposal	Fennell Haulage and Waste Disposal
Oil Filters	15 02 02*	Yes	None	Local garage with special facility	Gerard Fennell Garage	Fennell Haulage and Waste Disposal	Fennell Haulage and Waste Disposal
Sawdust	03 01 02	No	Medium	Re-used by local farmer as animal bedding/spill response kit	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Trimmed door lippings, waste plywood, used sand belts	03 01 03	No	None	Re-used for home heating	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
				Landfill	Dunmore Landfill, Kilkenny County Council.	Fennell Haulage and Waste Disposal	Fennell Haulage and Waste Disposal
Off-cuts of untreated timber	15 01 03	No	Medium	Re-used for home heating	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Waste glue and glue-washings ^{Note 4}	08 04 10	No	Medium	Hardener added	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Off-cuts of damaged preserved timber ^{Note 5}	03 01 04*	Yes	None	N/A ¹	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}

Waste	EWC No.	Hazardous (Yes/No)	Annual Quantity	Method of Disposal/Recovery	Location of Disposal/Recovery	Name of Transporter	Name of waste contractor
Contaminated absorbent material (sawdust)	15 02 02*	Yes	None	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}
Sludge from treatment tank	20 03 04	No	None	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}	N/A ^{Note 1}

Notes:

Note 1: N/A = Not Applicable

Note 2: This quantity is not accurately known but 4 collections of mixed recyclables were done by Fennel Waste (Mr. Binman) during 2008. The estimated weight of each collection is 20kg maximum.

Note 3: This quantity is not accurately known but 41 × 1,100L wheelie bins of general waste) and 10,280kg of mixed waste in a skip were collected by Fennel Waste in 2008. The estimated typical waste contained in one 1,100L wheelie bin is 12stones or 76.2kg (Source = Fennel Waste)

Note 4: The hardened glue is being stored on-site.

Note 5: This waste is not generated

3.2 Agency Monitoring and Enforcement

An amount of work was carried out on site arising from EPA site visits and requests. Details of this correspondence and work carried out are provided below in Table 2.

Table 2 Details of EPA correspondence and work for 2008

Date	Reference	Content
13/10/2008	P0350-01/nc09mk.doc	<p>Notification of Non-Compliance/Site Inspection Report</p> <p>Non Compliances:</p> <ul style="list-style-type: none"> • Training Records • Records of inspection of the septic tank <p>Observations</p> <ul style="list-style-type: none"> • Previous Agency Reports: lack of response • Boiler Monitoring • Groundwater Monitoring: lack of drainage map
19/06/2008	None	Letter from Agency regarding Enforcement Category

3.3 Energy and Water Consumption

3.3.1 Energy Consumption for 2008

Table 3 Summary for energy consumption 2008

Source	Consumption 2007	Consumption 2008	Units
Electricity	441,129	415,051	KWh
Tractor diesel	17,960	24,127	Litres
Auto diesel	32,398	20,797	Litres
Kerosene	8,183	6,579	Litres
Grade	0	0	Litres
Lubricating oil	1,240	0	Litres

3.3.2 Water Consumption for 2008

Table 4 Water Consumption Summary

Water	
m ³	Unknown
€	521

3.4 Environmental Incidents and Complaints

3.4.1 Environmental Incidents

There were no environmental incidents in the year 2008 as a result of activities originating at Waterford Joinery Ltd.

3.4.2 Complaints

There have been no complaints logged for 2008 as a result of the activities originating at Waterford Joinery Ltd.

4. Management of the Activity

4.1 Environmental Management Programme (EMP) Report

Table 5 Environmental Objectives and Targets for 2008

No.	Licence Objectives	Target date	Progress
1	Purchase extra sump pallets for the storage of excess hazardous material	March 2008	Done
2	Ensure the proper segregation of waste and that all waste management practices are compliant with legislation and in agreement by the Agency.	Continuous	On-going
3	Revise and improve the sawdust management procedures on-site.	December 2008	Work in Progress (See Note 1)
4	Ensure the removal of the stockpile of soil every six months and outline to the Agency how this material will be used/disposed.	December 2008	Work in Progress (See Note 1)
5	Ensure all IBCs containing hardened glue are fitted with lids to prevent the entry of rainwater.	December 2008	Work in Progress (See Note 1)
6	Ensure the correct and designated storage of equipment around the site.	December 2008	Work in Progress (See Note 1)

Note 1: The activity of the company has significantly reduced in 2008 and therefore some projects were delayed and will therefore be transferred to the objectives for 2009.

4.2 Schedule of Environmental Objectives and Targets

The following table is a schedule of objectives and targets that have been set out by Waterford Joinery Ltd for 2009, in order to reduce any environmental impacts and improve environmental practices.

Table 6 Environmental Objectives and Targets for 2009

No.	Licence Objectives	Target Date
1	Ensure the proper segregation of waste and that all waste management practices are compliant with legislation and in agreement by the Agency.	Continuous
2	Revise and improve the sawdust management procedures on-site.	December 2009
3	Ensure the removal of the stockpile of soil every six months and outline to the Agency how this material will be used/disposed.	December 2009
4	Ensure all IBCs containing hardened glue are fitted with lids to prevent the entry of rainwater.	December 2009
5	Ensure the correct and designated storage of equipment around the site.	December 2009
6	Carry out bund tests for all bunds which are due in the course of 2009	December 2009

4.3 Environmental Management Programme (EMP)

Below are all the objectives and targets listed above and the process by which they will be achieved.

Objective Number	OT1
Objective Title	Ensure the proper segregation of waste and that all waste management practices are compliant with legislation and in agreement by the Agency.
Target	Continuous
Responsibility	Sean McGrath

Plan

Steps	Who	Target
<ul style="list-style-type: none"> Ensure all disposal/recovery facilities have been agreed by the Agency. 	EEC	Continuous

Objective Number	OT2
Objective Title	Revise and improve the sawdust management procedures on-site.
Target	December 2009
Responsibility	Sean McGrath

Plan

Steps	Who	Target
<ul style="list-style-type: none"> • Revise and improve the sawdust management procedures on-site 	Sean McGrath	December 2009
<ul style="list-style-type: none"> • It would be beneficial to extend the walls of the dust collection area. 	Sean McGrath	December 2009
<ul style="list-style-type: none"> • Empty dust bins regularly 	Sean McGrath	December 2009

Objective Number	OT3
Objective Title	Ensure the removal of the stockpile of soil every six months and outline to the Agency how this material will be used/disposed.
Target	December 2009
Responsibility	Sean McGrath

Plan

Steps	Who	Target
<ul style="list-style-type: none"> • Submit a proposal to the Agency outlining how this material will be disposed. 	Sean McGrath	December 2009

Objective Number	OT4
Objective Title	Ensure all IBCs containing hardened glue are fitted with lids to prevent the entry of rainwater
Target	December 2009
Responsibility	Sean McGrath

Plan

Steps	Who	Target
<ul style="list-style-type: none">• Ensure all IBCs containing hardened glue are fitted with lids to prevent the entry of rainwater	Sean McGrath	December 2009

Objective Number	OT5
Objective Title	Ensure the correct and designated storage of equipment around the site.
Target	December 2009
Responsibility	Sean McGrath

Plan

Steps	Who	Target
<ul style="list-style-type: none"> • Obsolete equipment, timber, metal drums, pallets, recyclable waste should be segregated and stored correctly in designated storage areas. 	Sean McGrath	December 2009

Objective Number	OT6
Objective Title	Carry out bund tests for all bunds which are due in the course of 2009
Target	December 2009
Responsibility	Sean McGrath

Plan

Steps	Who	Target
<ul style="list-style-type: none">Organise for the testing of all the bunds which are due for testing in 2009	Sean McGrath	December 2009

5. Licence-Specific Reports

5.1 Boiler efficiency

The combustion efficiency determination of the Wanson boiler was carried out on the 27 March 2008. The following table summarises the results for this test.

Parameter	Result
Stack temperature	240°C
O ₂	18%
CO	9ppm
CO ₂	2.1%
Excess Air	625%
Nett Efficiency	48.4%

Although the efficiency was found to be quite low, this can be explained by the high percentage of Excess Air (and therefore the high level of oxygen). In practice, air is supplied to the boiler beyond what is theoretically required for complete combustion: a certain amount of excess air has to be supplied to the burner to ensure full combustion and provide a safety factor. If not (i.e. lack of oxygen), incomplete combustion would result in unburnt or partially burnt fuel, thus result in emission of CO (highly toxic gas), inefficiency and fuel wastage. However, excess air is cooling the combustion chamber, carrying heat away into the flue thus reducing the efficiency. Therefore, the excess air level should not be too high either.


As a guideline, burners should be able to operate down to 15-25 % excess air and measures should be taken to adjust the burner if CO₂ in the flue gases is less than about 13% for oil.

5.2 Bund Integrity Assessment

The bunds were last tested in 2007 and the frequency for the bund integrity assessment is every to years. Thus there was no requirement for bund integrity assessment in 2008.

6. PRTR

The PRTR excel sheets sent to the Environmental Protection Agency are provided in this section:

		PRTR# : P0350 Facility Name : Waterford Joinery Limited Filename : P0350_2008.xls Return Year : 2008		11/05/2009 10:20
		<h3>AER Returns Worksheet</h3>		
REFERENCE YEAR 2008				
1. FACILITY IDENTIFICATION				
Parent Company Name		Waterford Joinery Limited		
Facility Name		Waterford Joinery Limited		
PRTR Identification Number		P0350		
Licence Number		P0350-01		
Waste or IPPC Classes of Activity				
No.		class name		
8.3.0		The treatment or protection of wood involving the use of preservatives with a capacity exceeding 10 tonnes per day.		
Address 1		Ballinamuck		
Address 2		Dungarvan		
Address 3		Co. Waterford		
Address 4				
Country		Ireland		
Coordinates of Location		22390945		
River Basin District				
NACE Code		161		
Main Economic Activity		Sawmilling and planing of wood		
AER Returns Contact Name		Sean McGrath		
AER Returns Contact Email Address		aricoux@energy.iol.ie		
AER Returns Contact Position		Commercial Manager		
AER Returns Contact Telephone Number		058 - 41417		
AER Returns Contact Mobile Phone Number				
AER Returns Contact Fax Number		058 - 42872		
Production Volume		0.0		
Production Volume Units				
Number of Installations		0		
Number of Operating Hours in Year		0		
Number of Employees		0		
User Feedback/Comments				
Web Address				
2. PRTR CLASS ACTIVITIES				
Activity Number		Activity Name		
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 ?				

4.1 RELEASES TO AIR

| PRTR# : P0350 | Facility Name : Waterford Joinery Limited | Filename : P0350_2008.xls | Return Year : 2008 |

11/05/2009 10:20

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR								
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) KG/Year
						0.0	0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO AIR								
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) KG/Year
						0.0	0.0	0.0

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

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

RELEASES TO AIR								
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) KG/Year
						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 Joinery Limited				
	T (Total) kg/Year	M/C/E	Method Code	Designation or Description	Facility Total Capacity m3 per hour
Total estimated methane generation (as per site model)	0.0				N/A
Methane flared	0.0				0.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A

4.2 RELEASES TO WATERS

| PRTR# : P0350 | Facility Name : Waterford Joinery Limited | Filename : P0350_2008.xls | Return Year : 2008 |

11/05/2009 10:20

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

RELEASES TO WATERS								
POLLUTANT				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) KG/Year
						0.0	0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS								
POLLUTANT				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) KG/Year
						0.0	0.0	0.0

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

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

RELEASES TO WATERS								
POLLUTANT				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) KG/Year
						0.0	0.0	0.0

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

4.3 RELEASES TO WASTEWATER OR SEWER

| PRTR# : P0350 | Facility Name : Waterford Joinery Limited | Filename : P0350_2008.xls | Return Y.

11/05/2009 10:20

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER								
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) KG/Year
						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								
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) KG/Year
						0.0	0.0	0.0

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

4.4 RELEASES TO LAND

| PRTR# : P0350 | Facility Name : Waterford Joinery Limited | Filename : P0350_2008.xls | Return Year : 2008 |

11/05/2009 10:20

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND						
POLLUTANT		METHOD			QUANTITY	
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	A (Accidental) KG/Year
					T (Total) KG/Year	A (Accidental) KG/Year
					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)

RELEASES TO LAND						
POLLUTANT		METHOD			QUANTITY	
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	A (Accidental) KG/Year
					T (Total) KG/Year	A (Accidental) KG/Year
					0.0	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# : P0350 | Facility Name : Waterford Joinery Limited | Filename : P0350_2008.xls | Return Year : 2008 |

11/05/2009 10:20

Transfer Destination	European Waste Code	Hazardous	Quantity T/Year	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Name and Licence / Permit No. of Recoverer / Disposer / Broker	Address of Recoverer / Disposer / Broker	Name and Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)	Licence / Permit No. of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	20 01 01	No	0.08	Paper, Cardboard Boxes, Plastic Wrapping	R5	E	None	Offsite in Ireland	Fennell Haulage and Waste/WP035-02	Knocknasall, Dungarvan Waterford		
Within the Country	20 03 01	No	13.404	Mixed general waste	D1	M	Weighed	Offsite in Ireland	Fennell Haulage and Waste/WP035-02	Knocknasall, Dungarvan Waterford		