

ANNUAL ENVIRONMENTAL REPORT 2018

IPC LICENCE REGISTER NO. P 0080.01

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FOR:

**COLFIX (DUBLIN) LTD.,
BLUEBELL INDUSTRIAL ESTATE,
DUBLIN 12.**

Report prepared by: Micheal Finnegan
Environmental Consultant

Ref.: 02-18
Date: 05 February 2019

**ANNUAL ENVIRONMENTAL REPORT 2018
FOR COLFIX (DUBLIN) LTD**

Micheal Finnegan has prepared an Annual Environmental Report which meets the requirements of the relevant conditions of the company's IPPC Licence Register N^o P 0080.01

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1.0 INTRODUCTION

This Annual Environmental Report has been compiled in accordance with the *Integrated Pollution Control Licensing Guidance Note for Annual Environmental Report (2000)*. The compilation of this report involved a visit to the Colfix site, discussions with site management and the processing of information provided by Colfix.

This section provides a brief description of the company.

1.1 Company Details

IPC Licence Register N ^o :	P 0080.01
Company Name:	Colfix (Dublin) Ltd.
Address:	Bluebell Industrial Estate, Dublin 12.
Body Corporate:	Colas Teoranta Group
General Manager:	Damian Henry
Operations Manager:	Tim Walsh

1.2 Site Description

The Colfix site is located within the Bluebell Industrial Estate area of Dublin. The company is involved in the manufacture of a range of bitumen and bitumen emulsion based products. The company produces a number of bitumen based products for use in road surfacing and maintenance. The main processes carried out on site are blending, mixing and storage backed up by an on site boiler, truck wash and fuel storage area.

1.3 Company Environmental Policy

As part of its accredited Environmental Management System, which is certified to the ISO14001 standard by the NSAI, the company adopted the following Environmental Policy which is approved by senior site management;

“Colfix (Dublin) Ltd are market leaders in the manufacture of a range of bitumen emulsions for use in the road construction and road maintenance industry. Colfix products are used widely throughout the country and are made to the specifications of the National Roads Authority.

Our Environmental Policy is to be a responsible corporate citizen in managing the environmental aspects of our activities in the Bluebell Industrial Estate, Dublin. We are committed to complying with accepted environmental practices, including the commitment to meet and, where possible, exceed applicable legal and other requirements. We strive for continual improvement in our environmental management system, and to minimize the creation of wastes and environmental emissions. We will, therefore, manage our processes, our materials and our people in order to reduce the environmental impacts associated with our work.

Colfix have implemented and operate to ISO 14001 Environmental Management System to further enhance environmental performance. Our chief objectives are to:

- Ensure efficient resource consumption
- Reduce, reuse and recycle waste including emissions
- To handle and store our raw materials and products in a safe and contained manner.

This policy will be communicated to all parties we believe are interested in the performance of our environmental management system and will be available to members of the public.”

1.4 Company Environmental Management

Environmental management on a site level is the responsibility of the Operations Manager whilst environmental matters at a corporate level are handled by the General Manager/Director. Support is provided on an on going basis to the company in managing the EMS by Michael Finnegan and Associates who are quality, environmental and safety consultants to the company. The company encourages all members of staff to play an active role in site environmental management through involvement in site audits, training and involvement in corrective/preventive actions.

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2.0 SUMMARY INFORMATION

The following chapter presents the summary information as required for the AER covering the 2018 calendar year i.e. from January 1st 2018 to 31st December 2018 inclusive;

- 2.1** Surface water and Effluent Monitoring Summary
- 2.2** Waste Management Report
- 2.3** Energy and Resource Consumption Summary
- 2.4** Complaints and Incidents Summary
- 3.0** Management of the activity

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2.1 Effluent & Surface water Monitoring

Table 2.1-1: Surface Water

Date	Chemical Oxygen Demand mg/l	Oils, Fats and Grease mg/l
12-01-2018	27	<1
8-02-2018	32	<1
8-03-2018	14	<1
12-04-2018	32	<1
10-05-2018	38	<1
14-06-2018	31	<1
12-07-2018	31	<1
16-08-2018	33	2
13-09-2018	16	<1
11-10-2018	36	<1
8-11-2018	21	<1
13-12-2018	2	<1

* Indicates that the results exceeded the action limits set for Chemical Oxygen Demand (30 Warning 50 Action) and for oils, fats and Grease (5 mg/l). Please refer to section 2.4.2 for further details.

Table 22.1-2 Effluent Discharge To Sewer

Date	pH pH Units	COD mg/l	BOD mg/l	Suspended Solids mg/l	Oils, Fats & Grease mg/l	Detergents mg/l	Temp °C
IPC Licence Limits	6-10	1000	500	500	100	100	42 Max
11/01/2018	7.9	22	4	5	1	<1	7
12/04/2018	7.6	70	11	18	<1	<1	9
12/07/2018	7.3	274	42	37	5	<1	17
11/10/2018	7.9	36	3	30	<1	<1	16

Note: All results are well within the site's IPC Licence emission limits.

2.2 Waste Management Report

The waste management data is presented in the following tables Table 2.2-4-1 to 4

Table 2.2-1: Non-Hazardous Waste

EWC Code	Description	Source	Amount	On-Site Treatment	On-Site Recovery		Off-Site Recovery		On-Site Disposal		Off-Site Disposal	
			[t]		Method	[t]	Method	[t]	Method	[t]	Method	[t]
200140	Scrap Metal	On Going Site Maintenance & Improvement Works	4	N/A	N/A	N/A	Reprocessing Abroad	4	N/A	N/A	N/A	N/A
200301	Mixed municipal	Offices and canteens	6.85	N/A	N/A	N/A	Used as fuel to generate energy	6.85	N/A	N/A	N/A	N/A
200101	Paper and cardboard	Office paper waste and packaging	0.9	N/A	N/A	N/A	Recycled	0.9	N/A	N/A	N/A	N/A
170302	Bitumen	From maintenance and cleaning	6.02	N/A	N/A	N/A	Used as fuel to generate energy	6.02	N/A	N/A	N/A	N/A

Table 2.2-2: Hazardous Wastes

EWC Code	Description	Source			On-Site Recovery		Off-Site Recovery		On-Site Disposal		Off-Site Disposal	
			Amount (t)	On-Site Treatment	Method	[t]	Method	[t]	Method	[t]	Method	[t]
130507	Interceptor Wastewater	Interceptor Maintenance	5	N/A	N/A	N/A	Recycling/reclamation	5	N/A	N/A	N/A	N/A
130208	Engine Oil	Transport fleet	0.9	N/A	N/A	N/A	Reclaimed	0.9	N/A	N/A	N/A	N/A

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Table 2.2-3: Non-Hazardous Waste - Off-Site Recovery/ Disposal

EWC Code	Waste Material	[t]	Description & Nature of Waste	1. Broker 2. Haulage Contractor	Recovery Contractor	Disposal Contractor
200140	Scrap Metal	4	On Going Site Maintenance & Improvement Works	Mark O'Reilly Recycling	N/A	Mark O'Reilly Recycling
200301	Mixed municipal	5.2	Offices and canteens	Thorntons Recycling	Thorntons Recycling	N/A
200101	Paper and Cardboard	0.9	Office paper and packaging	Thornton Waste	Thorntons Recycling	N/A
170302	Bitumen	6.02	Bitumen from maintenance and site cleaning	Greenstar Waste	Greenstar Waste	N/A

Table 2.2-4: Hazardous Waste - Off-Site Recovery/ Disposal

EWC Code	Waste Material	Consign. Note	[t]	Description & Nature of Waste	1. Broker 2. Haulage Contractor	Recovery Contractor	Disposal Contractor
130507	Interceptor Wastewater	On file	5.0	Oily water mixture arising from interceptors	Rilta Environmental	Rilta Environmental	N/A
130206	Engine Oil	On file	0.9	Engine Oil from serviced vehicles	Enva Ireland Limited	Enva Ireland Limited	N/A

Note: 1. Certificates of disposal and other relevant documentation regarding each shipment off site are held in the site Waste Management Record

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2.3 Energy and Water Consumption

The Energy usage can be broken down as shown in Table 2.33-1.

Table 2.33-1: Energy Usage

	2015		2016		2017		2018	
Parameter/units	[M³]	[MW]	[M³]	[MW]	[M³]	[MW]	[M³]	[MW]
Gas Oil	585		449		443		465	
Electricity		429		534		572		573
Water Consumption	5091		5750		5144		6995	

2.3.1 Air Emission Monitoring

Boiler combustion efficiency was analysed during 2018 by Q.E.D. Engineering Ltd and found to be an average of 84.3% for the boilers. Releases to air in the AER returns worksheet are based on fuel used run time and efficiency achieved

2.4 Complaints and Incidents Summary

Table 2.4-1 Complaint summary

Item	2015	2016	2017	2018
Complaints received	0	0	0	0
Complaints requiring corrective action	0	0	0	0

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**Table 2.4.2 Surface water Oils, Fat and Grease/COD Action Level
Exceedance's**

Date	COD (mg/l)	Action Limit 50 (mg/l)

There was no recorded result of exceedance in 2018 above the action limit of 50.

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3.0 MANAGEMENT OF THE ACTIVITY

3.1 Environnemental Management Programme (EMP) REPORT

3.1.1 Introduction

The EMS implemented in the company manages the requirements of the IPPC licence and additional requirements set by certification to ISO 14001 and corporate audits. Objectives set are achieved and assessed through external certification audits conducted by NSAI and internal company review processes. The company is committed to a continuous process of improvements and uses external services to assist in the identification of energy and environmental opportunities.

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3.1.2 2018 EMP SUMMARY

Ref.	Project Name	Project Achievement	Res.	Status
3.2.1	Water usage	Water is used as a cooling medium in a laboratory apparatus (water still). This water had been sent to drain. The coupling to an existing water cooler and reservoir has meant that the cooling water is now recycled.	OM	Complete
3.2.2	Pilot study on the manufacturing process to improve efficiencies.	Phase 2 of 3 phase completed with promising results	OM	On going

Note: OM = Operations Manager GM = General Manager EC = Environmental Consultants to Colfix who currently are Michael Finnegan and Associates.

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3.2 Colfix Environmental Management Programme Proposal for 2019– Summary Table

Ref	Objective	Target	Target Date	Responsibility
3.2.1	Reduction in water, chemical and effluent from onsite vehicle cleaning process	Feasibility study on more sustainable systems.	Q3 2018	OM
3.2.2	Pilot study on the manufacturing process to improve efficiencies.	This is a long term study. Target date for decision will be 2020.	2020	EC/OM

Abbreviations: OM = Operations Manager EC = Environmental Consultancy Support GM = General Manager

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3.2 Colfix Environmental Management Programme Proposal for 2019

3.2.1.

Water usage on site

Water is a commodity used on site in various ways. There is an awareness of the stress level placed on the local environment due to water usage in general. The largest proportion is directly used in the manufacturing process. The use of water in non- direct areas particularly, is now subject to review. A study on the way we operate cleaning equipment with the possibility of recycling water to minimising waste is will be implemented in our environmental management programme

Objective / Rationale:

To reduce/ minimise water usage on site.

Responsibility: Operations Manager

3.2.2

The manufacture of PMB.

PMB (polymer modified bitumen) is a product supplied by the company. The process for the manufacture of this product utilises energy and time. A pilot study has been initiated to investigate the possibilities of an improved method to reduce either or both of the fore mentioned resources.

Objective / Rationale:

To reduce / minimise energy consumption.

Responsibility: Operations Manager