



Annual Environmental Report

Waste Licence Number W0238-01

01st January 2018 – 31st December 2018

Irish Packaging Recycling

Merrywell Industrial Estate

Ballymount Road Lower

Ballymount, Dublin 12

Date	Status	Prepared By	Reviewed By
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15/04/2019	Final	Laura Lazar	David Naughton

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1. Introduction

Irish Packaging Recycling operates Waste Licence W0238-01 on behalf of Dublin City Council.

The following Annual Environmental Report was prepared in accordance with Condition 11.8 and Schedule E of Waste Licence W0238-01, and with reference to Environmental Protection Agency guidance on Annual Environmental Reporting.

This AER relates to the calendar year 2018. The report provides details of the activities carried out at the facility from the 01st of January 2018 to the 31st December 2018.

1.1 Company Details

Licence No: W0238-01

Name: Irish Packaging Recycling Ltd.

Address: Regional Materials Recovery Facility
Merrywell Industrial Estate,
Ballymount, Dublin
D12TD74

Telephone Number: 01 4602011

Fax Number: 01 4602210

Website: www.panda.ie

1.2 Management Structure

There are 100 employees either working directly or indirectly at the facility. Appendix B illustrates the organisational structure of the facility.

1.3 Financial Provision

The Environmental Liability Risk Assessment (ERLA) and the Decommissioning Management Plan (DMP) were approved by the Agency in 2017.

1.4 Environmental Policy

In carrying out our function, IPR/Panda acknowledge that our activities impact upon the environment both through routine internal operations and the actions of our staff.

It is Panda's policy to protect the environment during all activities, both on and off-site.

This is achieved by:

- Strategic preparation and implementation of operating procedures (including an emergency response procedure).
 - Utilizing BAT (Best Available Technology).
 - Actively promoting environmental awareness amongst staff and clients through appropriate training and communication programs.
 - Reduce energy use through effective education and awareness and the installation of energy efficient technology where appropriate.
 - Implementing a policy of continuous improvement, by means of targeted objectives.
- All objectives and targets are monitored and up-dated accordingly.

IPR / Panda are committed to complying with all relevant environmental regulations and aim to supply a safe competitive and sustainable service with specific regards to the surrounding environment.

1.5 Activities

Irish Packaging Recycling commenced operation of the Regional Materials Recovery Facility on behalf of the four Dublin Local Authorities under Waste Licence W0238-01 in January 2012.

This licence authorises following waste handling activities as permitted under the Third and Fourth Schedules of the Waste Management Act 1996 to 2003:

Class 12 and 13 Waste Disposal Activities, in accordance with the Third Schedule of the Waste Management Act, 1996;

- **Third Schedule, Class 12:** Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule;
- **Third Schedule, Class 13:** Storage prior to submission referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced;

Class 2, 3, 4 and 13 Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996;

- **Forth Schedule, Class 2:** Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes); Principle activity.
- **Forth Schedule, Class 3:** Recycling or reclamation of metal and metal compounds;
- **Forth Schedule, Class 4:** Recycling or reclamation of other inorganic materials;
- **Forth Schedule, 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 the waste concerned is produced.

Irish Packaging Recycling accepts household dry recyclable materials that have been collected in a single co-mingled waste stream from kerbside collections to the Regional

Materials Recovery Facility. The materials accepted include paper, newspapers, magazines, cardboard, aluminium cans, steel cans, tetrapak beverage cartons, plastic bottles including PET, HDPE, PVC containers and plastic film. All materials collected and processed at the Regional MRF come from the Dublin Region.

Irish Packaging Recycling also accepts small quantities of commercial dry recyclable materials to the Regional Materials Recovery Facility. The materials accepted include paper, cardboard, aluminium and steel cans, and mixed plastics.

1.6 Water Usage

Water for fire sprinkler system is taken from a holding tank located on the facility. Water to office and amenities is taken from a municipal supply and is metered by the council.

2. Summary Information

2.1 Waste Received

The waste received at the facility from the 01st January 2018 to the 31st December 2018 was 77,822.84 tonnes.

TABLE 1: Waste received in 2018

EWG code	Waste Description	Tonnage
20 03 01	Mixed Dry Recyclables	77,822.84

2.2 Waste Transferred Off-Site for Disposal or Recovery

Breakdown of the different destinations used for the waste removed off site by EWG code can be found on Eden portal under Environmental Performance Reporting.

2.3 Waste recovery report

TABLE 2: Outgoing destination and recovery rate

Destination	Tonnage	%
Disposal	0	0
Recovery	76,531.53	100

2.4 Summary report on emissions and interpretation of environmental monitoring

Under condition 6 and Schedule C of the licence W0238-01, IPR are required to monitor storm water emissions and noise. The following sub-headings detail the results from independent laboratories of the different parameters and the emission limit values ELV's set by the EPA and any complaints and incident that may have occurred during the year.

2.4.1 Storm Water Emissions

TABLE 3: 2018 Quarterly Samples

Quarter 1:

Test Parameter	SOP	Analytical Technique	Result	Units
COD (surface water)	107	Colorimetry	25	mg/L
pH (surface water)	110	Electrometry	7.3	pH Units
Solids (total suspended)	106	Filtration / Drying @ 104C	20	mg/L

Quarter 2:

Test Parameter	SOP	Analytical Technique	Result	Units
COD (surface water)	107	Colorimetry	<5	mg/L
pH (surface water)	110	Electrometry	7.6	pH Units
Solids (total suspended)	106	Filtration / Drying @ 104C	<2	mg/L

Quarter 3:

Test Parameter	SOP	Analytical Technique	Result	Units
COD (Surface Water.)	107	Colorimetry	45	mg/L
pH (Surface Water.)	110	Electrometry	7.21	pH Units
Solids (Total Suspended)	106	Filtration / Drying @ 104C	7	mg/L

Quarter 4:

Test Parameter	SOP	Analytical Technique	Result	Units
COD (surface water)	107	Colorimetry	18	mg/L
pH (surface water)	110	Electrometry	7.37	pH Units
Solids (total suspended)	106	Gravimetry	10	mg/L

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2.4.2 Noise Emissions

Noise emissions are monitored according to Schedule B.4 and Condition 6.15 of the licence. An independent competent consultant was commissioned to conduct the noise sampling for the facility. Table 4 details results of noise monitoring conducted in 2018.

TABLE 4: Noise Emissions 2018

3 Noise Survey Results

The mean day-time and night-time mean values are shown in Tables 1 & 2.

Table 1.0 Day-time Noise Levels dB(A) – Intervals 30 minutes-Mean values

Locn	Date	Time	Leq	Lmin	L50	L90	Comments
N1	5 th Sept'18	13.00-18.00	57.7	51.2	55.8	56.6	Road traffic noise
N2	5 th Sept'18	14.00-17.30	57.8	45.2	49.1	53.8	Mainly road traffic noise
N3	5 th Sept'18	13.00-18.30	61.0	50.7	57.7	54.2	Mainly road traffic noise
N4	5 th Sept'18	12.00-16.00	57.3	43.7	54.5	51.7	Mainly road traffic noise
N5 (NSL)	5 th Sept'18	13.30-18.00	54.6	47.6	52	49.7	Road traffic noise dominant- waste facility not audible

Table 2.0 Night-time Noise Levels dB(A) – Intervals 30 minutes-Mean values

Locn	Date	Time	Leq	Lmin	L50	L90	Comments
N1	6 th Sept'18	00.00-01.30	54.5	44.7	48.9	47.2	Mainly road traffic noise
N2	5 th -6 th Sept'18	23.00-00.30	52.5	45.2	49.2	47.2	Mainly road traffic noise
N3	5 th -6 th Sept'18	23.30-01.30	45	40.3	43.8	42.0	Mainly road traffic noise
N4	5 th -6 th Sept'18	23.30-01.30	48.1	43.9	47.4	45.8	Mainly road traffic noise
N5 (NSL)	5 th -6 th Sept'18	23.00-02.30	46.4	42.9	45.5	44.2	Road traffic noise dominant. Waste facility not audible

2.4.3 Tank and Pipeline Testing and Inspection Report

McBreen environmental carried out pipeline integrity testing in January 2017.

McBreen environmental carried out bund integrity testing in April 2016.

2.4.4 Summary of Resource and Energy Consumption

Table 5: Summary of Resource and Energy Consumption from 1st January 2018 to December 2018.

Raw Material/Resource	Application	Consumption
Electricity	Office and plant use	2,863,770 MW hr
Marked Diesel	Mobile plant machinery	85,595 litres

2.4.5 Water

Water for fire sprinkler system is taken from a holding tank located on the facility. Water to office and amenities is taken from a municipal supply and is metered by the council.

2.5 Site Infrastructure

The current site infrastructure is outlined below (List 1). List 2 details the waste processing equipment used on site.

List 1: Current site infrastructure

1. Offices
2. Dual Weighbridge
3. One Waste processing building
4. One sprinkling system
5. One air sampling system
6. Canteen and toilets
7. Maintenance Workshop

8. Fencing around the site
9. ESB sub station

List 2: Waste processing equipment

- 1 x Shovel
- 3 x Forklifts
- 1 x Multi - sweeper
- 2 x OCC Screens
- 6 x News screens
- 3 x Eddy Current
- 5 x Tomra Sorting machines
- 1 x Perforator
- 3 x Magnets
- 3 x Aladdin
- 4 x Walking Floor Bunkers
- 1 x Single Ram Baler
- 1 x Twin Ram Baler
- 2 x Manual Balers

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There is sufficient back up within the group if the shovel, forklifts or hook loader break down.

2.6 Progress report on proposals developed to minimise water demand

Water usage is minimised on site due to the nature of the materials handled. Therefore there is no requirement to reduce water usage.

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3. Environmental Objectives and Targets

3.1 Review of Environmental Objectives and Targets 2018

No.	Aspects	Objective & Target	Method of Achievement	Responsible	Status
1	Waste Management	Ensure the most efficient and environmentally sustainable management of material entering the MRF	Ensure recycling program is maintained and paper bins are kept in good condition, promote Recycling in-house within the MRF site offices	EHS Manager	On-going
			Carry out waste characterisation surveys monthly	Facility Manager	On-going
2	Compliance with the facility Waste Licence	Operate the facility in accordance with the Conditions of the Waste Licence and promote continual environmental improvement	Review training schedule of each staff member and identify training needs	EHS Manager	On going
			Continue programme of regular inspections to include storm water sampling	EHS Manager	On-going
			Continue to maintain the appropriate records at the facility in accordance with Condition 11 of the facility Waste Licence	EHS Manager	On-going
3	Water/Oil	Prevent surface water contamination	Ensure all gullies refitted with wire mesh are maintained	EHS Manager	On-going
			Paint SW manhole covers	EHS Manager	Complete
			Concrete repairs	Facility Manager	On-going
			Drainage Integrity Repairs	EHS Manager	Complete
4	Traffic Management	Achieve organised, efficient and safe movement of cars, trucks and machinery on site minimising noise and emissions	Maintenance of non-concussive push button taps so as to reduce wastage	H&S Manger	Complete
			Repaint road markings and review site traffic management plan	H&S Manger	Complete

5	Resource Use and Energy Efficiency	Identify opportunities for energy use reduction and efficiency	Maintenance of non-concussive push button taps so as to reduce wastage	EHS Manager	On-going
6	Public Relations	Minimisation of Complaints	Maintain a high standard of housekeeping practises at the facility to minimise the number of complaints	EHS Manager	On-going
			Effectively deal with complaints	EHS Manager	On-going
7	Emergencies	To control any emergency that may arise in the facility	Review emergency response procedure and train all personnel if required	EHS Manager	Complete
			Training for fire hydrant and lay flat training (mock event)	EHS manager	On-going
8	Litter	Prevent litter	Facility has at all times got staff monitoring litter on site	EHS manager	On-going
9	Fire	Prevent fire source	Dust levels to be monitored weekly on audit	Facility Manager	On-going
			Fire equipment weekly checks / maintenance	Facility Manager	On-going
			Upgraded CCTV System to by maintained	EHS manager	On-going
			Ensure loads tipped are checked	Facility Manager	On-going
			Create training document for firefighting equipment regularly checks	EHS manager	Complete
			Train new staff for firefighting checks	EHS manager	Complete
			Ensure all firefighting equipment is regularly checked and maintained	EHS manager	Complete

10	Buildings	Exterior façade signage	Worn Signs to be replaced if damaged	EHS manager	Complete
		Wall repairs	Maintain wall condition	Facility Manager	On-going

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3.2 Environmental Objectives and Targets for 2019

No.	Aspects	Objective & Target	Method of Achievement	Responsible	Status
1	Waste Management	Ensure the most efficient and environmentally sustainable management of material entering the MRF	Ensure recycling program is maintained and paper bins are kept in good condition. Promote Recycling in-house within the MRF site offices	EHS Manager	On-going
			Carry out waste characterisation surveys monthly	Facility Manager	On-going
2	Compliance with the facility Waste Licence	Operate the facility in accordance with the Conditions of the Waste Licence and promote continual environmental improvement	Review training schedule of each staff member and identify training needs	EHS Manager	April '19
			Continue programme of regular inspections to include storm water sampling	EHS Manager	Quarterly
			Continue to maintain the appropriate records at the facility in accordance with Condition 11 of the facility Waste Licence	EHS Manager	On-going
3	Water/Oil	Prevent surface water contamination	Ensure all gullies refitted with wire mesh are maintained	EHS Manager	August'19
			Paint SW manhole covers	EHS Manager	April '19
			Concrete repairs	Facility Manager	Q1 - done
			Bunds Integrity Test	EHS Manager	April'19
			Add metal plate on high traffic gullies	EHS Manager	Q4
			Identify where energy savings can be made	EHS Manager	On-going
4	Traffic Management	Achieve organised, efficient and safe movement of cars, trucks and machinery on site minimising noise and emissions	Repaint road markings and review site traffic management plan	EHS Manger	June '19
5	Resource Use and Energy Efficiency	Identify opportunities for energy use reduction and efficiency	Maintenance of non-concussive push button taps so as to reduce wastage	EHS Manager	On-going
6	Public Relations	Minimisation of Complaints	Effectively deal with complaints	EHS Manager	On-going
			Maintain a high standard of housekeeping practises at the facility to minimise the number of complaints	EHS Manager	On-going

7	Emergencies	To control any emergency that may arise in the facility	Review emergency response procedure and train all personnel required	EHS Manager	August'19
			Fire equipment weekly checks / maintenance	Facility Manager	On-going
			Training for fire hydrant and lay flat training (mock event)	EHS Manager	On-going
8	Litter	Prevent litter	Daily checks inspections	EHS manager	On-going
			Facility has at all times staff monitoring litter on site	EHS manager	On-going
9	Fire	Prevent fire source	Upgraded CCTV System to by maintained	Facility Manager	On-going
			Ensure loads tipped are checked	Facility Manager	On-going
			Dust levels to be monitored weekly on audit	EHS Manager	On-going
			Ensure all firefighting equipment is regularly checked and maintained	EHS manager	On-going
			Purchase new equipment	EHS manager	March ' 19
10	Buildings	Wall repairs	Maintain wall condition	Facility Manager	On-going

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3.3 Summary of Reported Incidents and Complaints

3.3.1 Reported Incidents Summary

There were no incidents during the reporting period 01st January to 31st December 2018.

3.3.2 Complaints

There were no complaints during the reporting period 01st January to 31st December 2018.

3.4 Review of Nuisance Controls

3.4.1 Odour

There is minimal risk of odour nuisance due to the nature of the waste accepted at the facility. However, IPR now has a permanent sweeper on site that cleans the concreted yard routinely throughout the day. Material is turned over in a timely fashion.

3.4.2 Noise

The monitoring results showed that noise is not a nuisance.

3.4.3 Vermin

A file on vermin control is maintained in the office. A sub-contractor is used to control any vermin on site.

3.4.4 Flies

Good housekeeping practices are used to prevent fly infestations. Fly Spraying is conducted inside the facility when necessary by a sub-contractor.

3.4.5 Birds

In order to avoid having birds as a nuisance, litter control is practised at all times, this includes regular litter patrols. Birds are not attracted, due to the nature of the material handled on site.

3.4.6 Litter

A designated member of staff carries out litter inspections of the facility regularly and gathers any litter deposited. The yard is kept clean using a multi – sweeper.

4. Development of Procedures on Site

The Environmental Management System has been developed and includes the following Standard Operating Procedure;

- Corrective Action;
- Daily Site Inspections;
- Nuisance Management;
- Emergency Response;
- Unacceptable Waste;
- Communications Programme;
- Storage of Fuels and Oils;
- Training and Awareness;
- Environmental Complaints;

A Daily Site Inspection Sheet has been developed to record any potential nuisance on or points to note.

5. Pollution Emission Register

After consulting the PERL list IPR MRF are not using any substance that is listed at present.

6. Report on Programme for Public Information

IPR have a shared website with their sister company Panda. One of its features is an Environmental page where the following can be downloaded:

- Facility licences (W0140-04, W0261-02, W0263-01, W0039-02, **W0238-01**);
- Multi-regional Waste collection permit (NWCPO-13-11193-05);
- Environmental Policy.

Recycling certificates are issued to customers, on request, so that they can determine their recycling on a monthly basis.

During the reporting period there were no requests from members of the public to inspect any Environmental Records.

The information in the Annual Environmental Report is true and accurate representation of the activities conducted by IPR in 2018.

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7. Appendix B

Organisational Structure

