Site: Cappagh Road, Finglas, Dublin 11

Waste Licence Number W0261-01

Annual Environmental Report

01st January 2012 – 31st December 2012

Table of Contents

1. Introduction

Panda were granted the EPA Waste Licence W0261-01 on the 31st August 2010. This replaces the Waste Permit WPT 95 issued by Fingal County Council. Under this licence, Panda will be able to process initially 50,000 tonnes per annum under Stage 1 and 200,000 tonnes per annum upon completion of necessary infrastructure. Appendix A illustrates the current site layout.

1.1 Company details

Licence No:	W0261-01
Name:	Nurendale Limited t/a Panda Waste Services
Address:	Cappagh Road, Finglas, Dublin 11.
Telephone Number:	01 8298961 or 1850 65 65 65
Fax Number:	046 9024189
Website:	www.panda.ie

1.2 Management Structure

Eamon Waters is the Managing Director of Panda. Brian McCabe and Noel Waters are company Directors. David Naughton is the Environmental Manager. Kieran Connor is the facility Manager on site. There are 80 employees either working directly or indirectly at the facility. Appendix B illustrates the organisational structure of the facility.

1.3 Financial Provision

A statement from our accountants is provided in Appendix C. At the present time the annual turnover and company assets are sufficient to offset environmental liabilities incurred during the course of operations and in the event that the company is closed.

1.4 Environmental Policy

In carrying out our function, 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.

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

Under the waste licence W0261-01, Panda conducts the following activities:

Licensed Waste Disposal Activities, in accordance with the Third Schedule of the Waste Management Acts, 1996 to 2003

Class 11.

Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.

Class 12.

Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.

Class 13.

Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.

Licensed Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Acts, 1996 to 2003

Class 2.

Recycling or reclamation of organic substances, which are not used as solvents (including composting and other biological transformation processes).

Class 3.

Recycling or reclamation of metals and metal compounds.

Class 4.

Recycling or reclamation of other inorganic materials.

Class 13.

Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.

Panda provide a waste collection service for the domestic, commercial and industrial sectors throughout Ireland and was awarded the Repak "Large Operator of the Year

award 2007" and "Runner up" in 2008, 2009, 2010, 2011 and 2012. Panda also won the inaugural Meath Innovator of the year 2010 and Meath Overall Business of the year 2010.

The normal facility operating hours are 6am-5pm (Monday-Friday) & 6am-2pm (Saturdays). The facility is licensed to accept non-hazardous wastes only.

1.6 Waste Activities carried out at the Facility

Waste accepted and dispatched at the facility is weighed using P&L's weighbridge software "IWS5", which was upgraded to "IWS6" during the year. Panda currently operates a single building for waste acceptance. The facility is primarily used as a transfer facility. The facility accepts predominantly skip waste from construction and demolition sites, household renovations/clearances and C&I Dry mixed municipal waste (Non-black bag-putrescible waste), source segregated cardboard, plastic & hangers and commercial and domestic dry mixed recyclables. No hazardous waste, putrescible waste or liquid wastes are accepted at the facility.

Ferrous, Non Ferrous, Wood and bulky waste are segregated from the incoming waste, in the facility using a track machine, and stored in the building for onward movement. The remaining mixed waste is then bulked up and sent onward to Panda's headquarters for processing. Source segregated baled cardboard, baled plastic and boxed plastic hangers are also accepted for bulking up from Dunnes Stores collections nationwide.

Panda stored source segregated plasterboard waste for processing. This is stored in a designated section of the building so as to avoid contamination from the other waste stream.

There is a dual weighbridge for incoming and outgoing waste.

1.7 Water Usage:

Water for dust suppression, office and amenities use is taken from municipal supply and is metered by the council.

Water usage on site consists of:

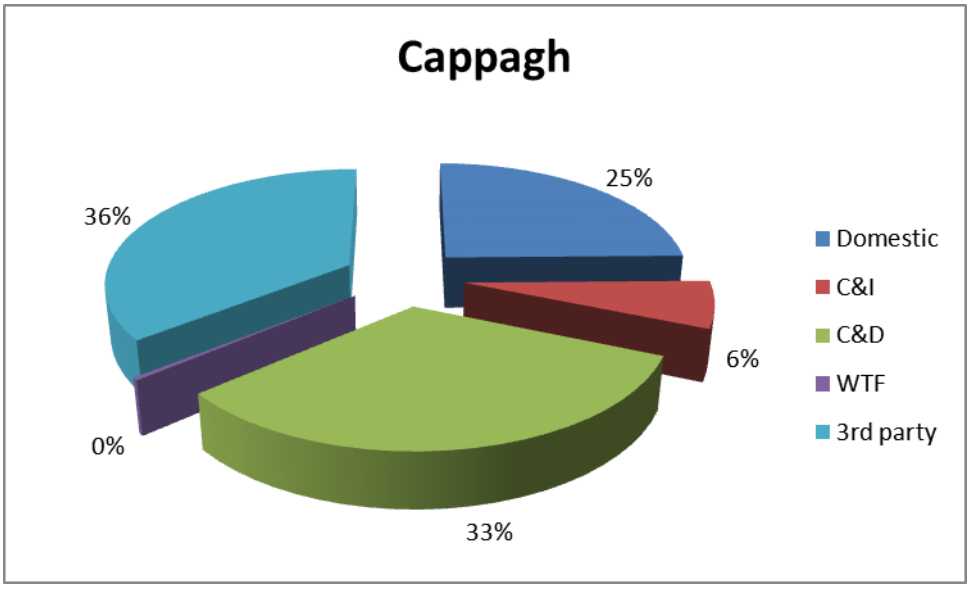
- In-house road sweeper (3 visits per week).
- Dust suppression sprayers in the shed and on the South-western external side of shed (as required)
- Hoses on site for dust suppression.
- Fire Fighting equipment.

2. Summary Information

2.1 Waste Received

The waste received at the facility from the 1st January 2012 to the 31st December 2012 was 68,515.04 tonnes. From the pie chart (Fig 1) it is evident that 3rd Party waste is the largest source of Panda's waste acceptance with Mixed C&D, and domestic dry recyclables next largest.

Fig. 1: Waste Collected by Panda by Customer profile.



2.2 Waste Transferred Off-Site for Disposal or Recovery

See Appendix D for the breakdown of the different destinations used for the waste accepted at the facility and of waste removed off site by EWC Code.

2.3 Waste Recovery Reports

To contribute to the Landfill Directive, Panda invested in a C&D processing line in 2005 in the Beauparc facility (W0140-03). A shredder, trommel, magnet, wind shifter and a picking line were purchased so as to divert as much C&D waste away from landfill as possible to reach the "Changing Our Ways 1998" target of diverting 85% away from Landfill by 2013. To date the processing of C&D Waste has been extremely successful. Panda are using the rubble segregated at the facility as a raw material in the use of landfill road construction and as back fill on construction sites. The timber that is segregated in the shed is then shredded and recycled.

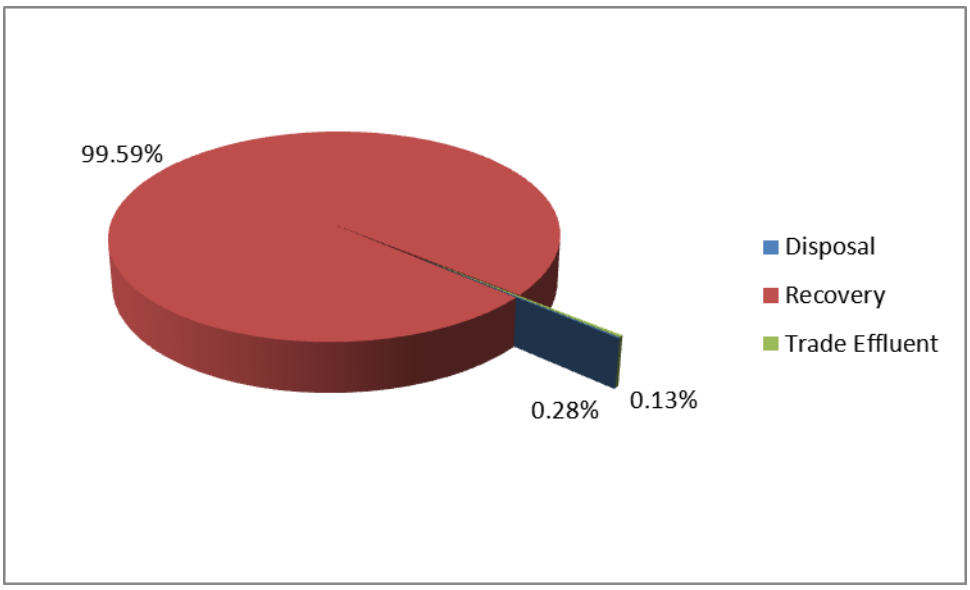
Panda are also in the process of finalising their RDF plant. This plant will recover the vast majority of Mixed Municipal Waste handled by Panda including the residual waste from the Cappagh facility. Panda are currently reviewing their Waste Licence for this RDF facility (W0140-03). Other materials recovered from this facility are ferrous metals, wood, and plasterboard waste. The residuals waste is currently sent to landfill for disposal. Panda also reviewed the licence for the purpose of constructing an Anaerobic Digestion/Composting plant. Panda have rolled out a source segregated collection service for biodegradable waste for both household and commercial customers.

Table 1 and Fig. 2 details the recovery rates of waste leaving Panda's facility.

Table 1: Outgoing destination and recovery rate.

Destination	Tonnage
Disposal	90.84
Recovery	70568.88
Trade Effluent	199

Fig. 2: Outgoing destination recovery rate.



2.4 Summary report on emissions and interpretation of environmental monitoring

Under Schedule C of the licence W0261-01, Panda are required to monitor storm water emissions, BMW content of municipal waste dispatched to landfill (Frequency-as specified by the Agency), trade effluent, noise and ambient air monitoring (Dust). 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 Surface Water

Storm water passes through a silt trap and oil interceptor prior to being discharged to the storm water network, which ultimately discharges into a tributary of the Tolka River. The surface water monitoring point is located at the south-eastern corner of the facility at the co-ordinates X/E 310429 Y/N 240420 (SW1).

2.4.2 Dust Emissions

As per schedule B5 for dust deposition limits, there are currently two sampling locations (AD1 and AD2). Monitoring is required bi-annually on site. A dust suppression unit was

installed in the shed to ensure dust emissions from the tipping, sorting and reloading are kept to a minimum. Figs 3&4 illustrate dust recordings for 2012.

Fig. 3: Dust emission results for DS1 (AD1)

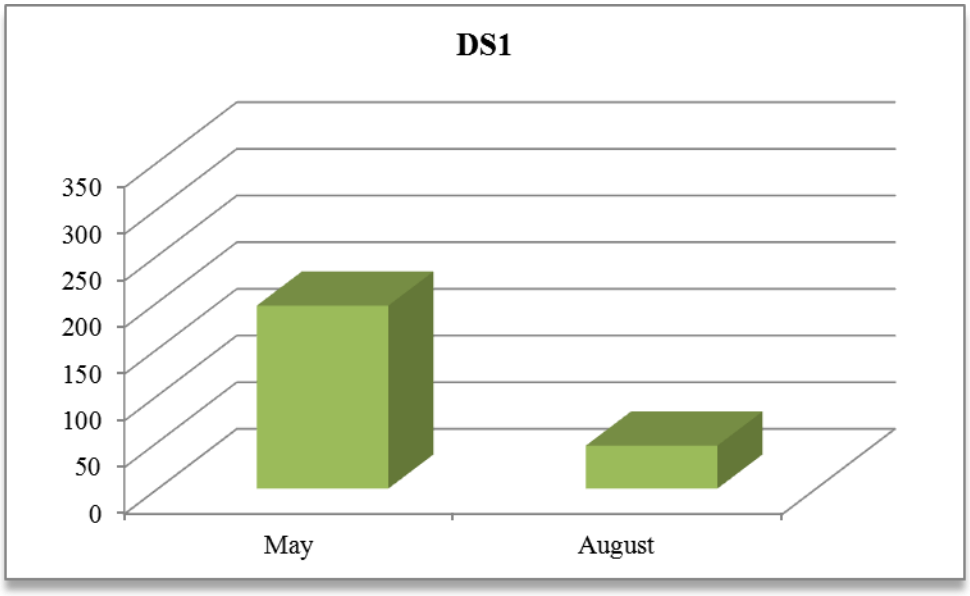
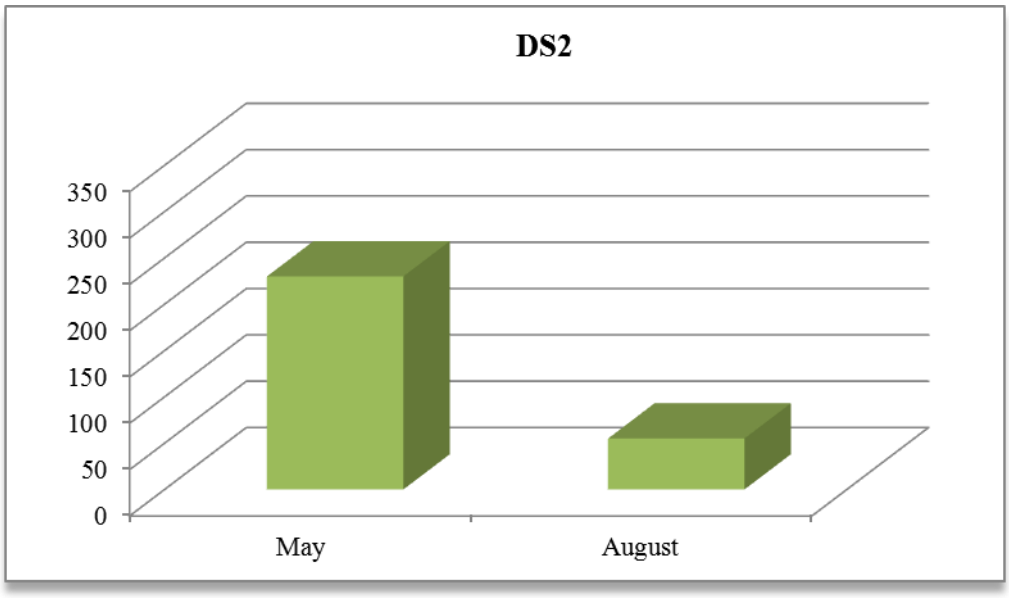


Fig. 4: Dust emission results for DS2 (AD2)



As per Schedule B.5, the dust deposition limit for the site is 350 mg m^{-2} d^{-1}. Both AD1 and AD2 are well within licenced ELV's.

2.4.3 Noise Emissions

Noise emissions are monitored according to Schedule B.4 and the emission limit values (ELV) set out in Schedule C.5 of the licence. An independent competent consultant has been commissioned to conduct the noise sampling for the facility. Table 2 details results of noise monitoring conducted on the 19th December 2012.

Table 2. Noise emissions 2012

Location	Leq	L10	L90	Comments
AN1	53.4	56.5	45.2	Main noise emission from works extraneous
AN2	49.6	51.5	44.2	Noise from waste facility
ANSL1	57.4	60.3	45.8	Mainly road traffic noise and waste facility at less than 46dBA
ANSL2	58.1	61..4	43.7	Mainly road traffic noise and waste facility less than 45 dBA

2.4.4 Trade Effluent

As part of the monitoring programme Panda must test the trade effluent sent off site for disposal. Table 3 details results of trade effluent monitoring in 2012.

Table 3. Trade effluent monitoring 2012

Parameter	**Units**	**Result** 07/06/12	**Result** 24/08/12	**Result** 05/09/12	**Result** 15/10/12
Ammonia	mg/L as N	7.86	26.17	0.73	0.1
Arsenic	ug/L	7.723	5.704	10.66	0.376
BOD	mg/L	850	270	140	0
Boron	ug/L	323	0	106	0
Cadmium	ug/L	1.097	3.345	1.949	0
Chloride	mg/L	232.09	156.42	155	3.53
Chromium	ug/L	18.16	16.89	22.23	1.189
COD	mg/L	1095	1142	970	0
Copper	ug/L	94.95	86.12	90.98	3.454
Lead	ug/L	225.9	107.3	207.2	1.695
Mercury	ug/L	0	0	0.44	0.057
Mineral Oil	ug/L	24.78	18.43	36.57	0
Nickel	ug/L	38.12	28.58	41.99	2.924
pH	pH units	6.7	6.6	6.9	7.7
Selenium	ug/L	<2.12	<2.12	<2.12	<2.12
Suspended Solids	mg/L	603	648	505	7
Sulphate	mg/L as SO_4	662.8	671.37	589.46	52.69
Zinc	ug/L	478.6	452.7	779.9	13.69

2.4.5 Bund, pipe and underground storage tanks integrity

The integrity and water tightness of all underground pipes, all tanks, bunding structures and containers and their resistance to penetration by water and other materials is required to be carried out every three years and thereafter and reported to the Agency. The bund, pipeline and UST integrity was tested in Q4 of 2012.

2.4.6 Summary of resource and energy consumption

Table 4: Summary of Energy Consumption from January 2012 to December 2012.

Resource	
Gas Oil	31,411 Litres
Electricity	192.52 MWhr

2.4.7 Water

Water is obtained from the municipal waster supply.

2.5 Site infrastructure

The following are details on infrastructure in the facility.

2.5.1 In-place

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

List 1: Current site infrastructure

1. Offices
2. Dual Weighbridge.
3. One x Waste processing building
4. One x Dust suppression system
5. Ancillary ESB building
6. Canteen & toilets.
7. Water Attenuation Tank
8. Oil Interceptor
9. Fuel Depot
10. Fencing around the site

List 2: Waste processing equipment

1 x Forklift

1 x Moffit with clamps

1 x Trach machine

1 x Volvo Box Truck for hanger sorting

There is sufficient back up within the group if any of the plant listed breaks down.

2.5.2 Planned Infra-structure

Proposed infrastructure is outlined in List 3. It is anticipated that the concrete yards will be completed by the end of 2013 and the dry recycling building being completed in late 2013.

List 3: Proposed infrastructure:

1. Dry Recycling Building
2. Completion of concrete in yard.

2.6 Progress Report on Proposals Developed to Minimise Water Demand & Trade Effluent Discharge

To minimise the water demand on site, Panda are investigating collecting the rainwater from the roof and using this in the road sweeper to clean the yard.

2.7 PRTR Emission.

Panda's PRTR emission return is provided in Appendix E.

3. Environmental objectives and targets – 2013.

No	Objective & Target	Method of Achievement	Responsibility	2012 Programme	Complete in 2012	2013 Programme
1	**Assess the Effectiveness of Nuisance Control Procedures**	Continually review and assess all nuisance control procedures to ensure minimal impact on surrounding area	Environmental Manager	Continuous	Complete	July '13
		Ensure yards are cleaned at the end of each working day	Operatives	Continuous	Continuous	Continuous
2	**Prevent Water Pollution from Run-Off**	Ensure all gullies are maintained and regularly cleaned	Environmental Manager/ Operatives	Continuous	Continuous	Continuous
		Ensure that levels in the trade effluent tank is maintained at an appropriate height	Environmental Manager/Operatives	Continuous	Continuous	Continuous
3	**Assess & Review Resource & Energy Consumption at the site**	Carry out an energy audit on the site	Environmental Manager	May '11	Complete in '12	N/a
4	**Maintain and Develop the Environmental Management System**	Maintain EMS Documentation on site	Environmental Manager	Continuous	Continuous	Continuous
		Update procedures to reflect operational and control changes				
5	**Assess Waste Acceptance Procedures so as to minimise volume of erratic's**	Communicate with customers about the items that are not acceptable in the in-coming wastes	Call Centre/Sales Reps	Continuous	Continuous	Continuous
6	**Environmental Monitoring**	Implement the Environmental Monitoring Programme specified in the Waste Licence	Environmental Manager	Continuous	Continuous	Continuous
		Investigate any accidences of emission limit values	Environmental Manager	Continuous	Continuous	Continuous
7	**Ensure and implement a training programme**	Identify staff training requirements and provide relevant training	Environmental Dept	May '12	Complete in '12	July '13

	Objective & Target	Method of Achievement	Responsibility	Timescale	Complete in 2012	2013 programme
8	**To control any emergencies that may arise at the facility**	Review and implement an Emergency Response Procedure	Environmental Manager	May '13	Complete in '12	July '13
9	**Prepare a Standard Operating Procedures Manual**	Prepare a comprehensive SOP manual relevant to site operations	Environmental Dept	Aug '11	Complete in '12	
10	**Ensure lighting in waste handling buildings provide sufficient lighting so as to assess incoming waste**	Clean all light bulbs and covers in waste handling buildings	Environmental Manager/ Yard Supervisor	July '11	Complete in '12	June '13
12	**Seek approval for the DMR building**	Prepare documentation for lodging to the Agency for approval	Environmental Dept and Project manager			July '13
12	**Office Recycling**	Continuation of office recycling	Office Manager/ Environmental Department	Continuous	Continuous	Continuous
13	**Pipe and UST Integrity Test**	Carry out a Pipe and Underground Storage Tank Integrity Test	Environmental Manager		Bund and UST Carried out	September '13
14	**Pipeline Survey Test**	Carrying out a pipe line integrity test	Environmental Manager			July '13

3.1 Summary of reported incidents and complaints

3.1.1 Reported Incidents Summary

No incidents occurred during this licence in 2012.

3.1.2 Complaints:

No complaints occurred during this licence in 2012.

3.2 Review of nuisance controls

3.2.1 Odour

There is minimal risk of odour nuisance due to the nature of the waste accepted at the facility. However, fast turnaround times of waste help to prevent any odour nuisances that may occur.

There is a power washer available to wash odorous bins. Each day, the facility manager conducts an inspection of the site. Odour nuisances are included on this inspection.

3.2.2 Noise

The monitoring results showed that noise is not a nuisance, as only minimal plant operates on site.

3.2.3 Dust

A dust suppression system is installed in the shed and on the external (South-western side) of the building. A road sweeper visits the site at a minimum 3 times per week or more frequently if required. Fire hoses are also available to spray water on concreted yards as required.

3.2.4 Vermin

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

3.2.5 Flies

Good housekeeping practices are used to prevent fly infestations. The yard is kept clean using a road sweeper and all waste for disposal is removed from the facility within 48 hours, or 72 hours in the case of a bank holiday weekends.

3.2.6 Birds

In order to avoid having birds as a nuisance, litter control is practised at all times, this includes regular litter patrols.

3.2.7 Litter

A designated member of staff carries out litter inspections of the facility twice daily and gathers any litter deposited.

4.0 Development of Procedures on Site

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

- Metal Recovery from Mattresses
- 3rd Party Customer Profiling
- Accident Prevention Policy

A Daily Site Inspection Sheet has been developed to record any potential nuisance on or points to note including a map of the facility for reference as to the location of the nuisance.

5.0 Pollution Emission Register

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

6.0 Report on Programme for Public Information

Panda have re-developed their website; one of the features is an Environmental page where the following can be downloaded,

- Facility licences (W0003-03, W0039-02, W0140-03, W0238-01, **W0261-01**, W0263-01)
- Multi-regional Waste collection permit (WCP-DC-09-1188-01),
- Environmental Policy,

Domestic wheelie bin customers can also download their relevant collection calendar and pay bills.

Panda have a news section on the website, with regular updates on collections, offers, etc. This proved extremely beneficial during the poor weather experienced during December 2010 informing customers of difficulties with collecting waste on specified days due to dangerous road conditions.

Over the Christmas period 2012 Panda put advertisements in all the local newspapers to inform customers of the schedule of bin collections over the Christmas Period. Panda also issued all domestic customers with a Christmas calendar showing collection days over that period. If there were any change to a domestic run or route, this would also be advertised in the local media.

In March 2009, Panda commenced SMS messaging to domestic customers regarding their collections. This was beneficial especially during December 2010 in the inclement weather conditions; this enables Panda to contact customers to inform them that collection days may have to changes to alternative day's, from this Panda received positive feedback. Panda are also encouraging customers to receive email invoicing, thereby reducing dependence on paper invoices and envelopes.

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

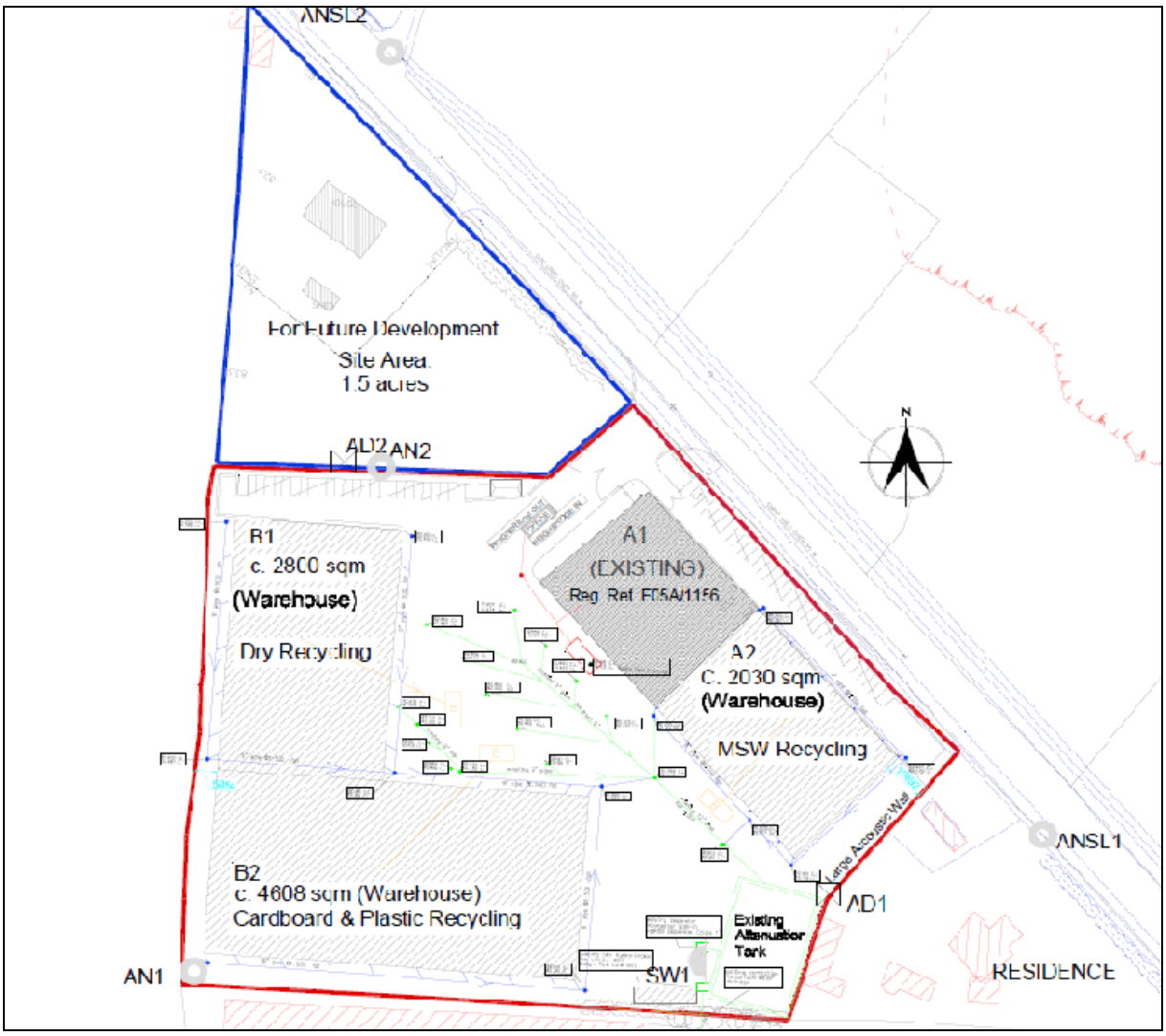
Advertisements are taken out regularly in the local newspapers informing customers of the services that Panda offer. There is also a large advertisement in the golden pages, which is available to the general public. Regular tours of the facility are given to schools and to members of the public upon request.

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 Panda in 2012.

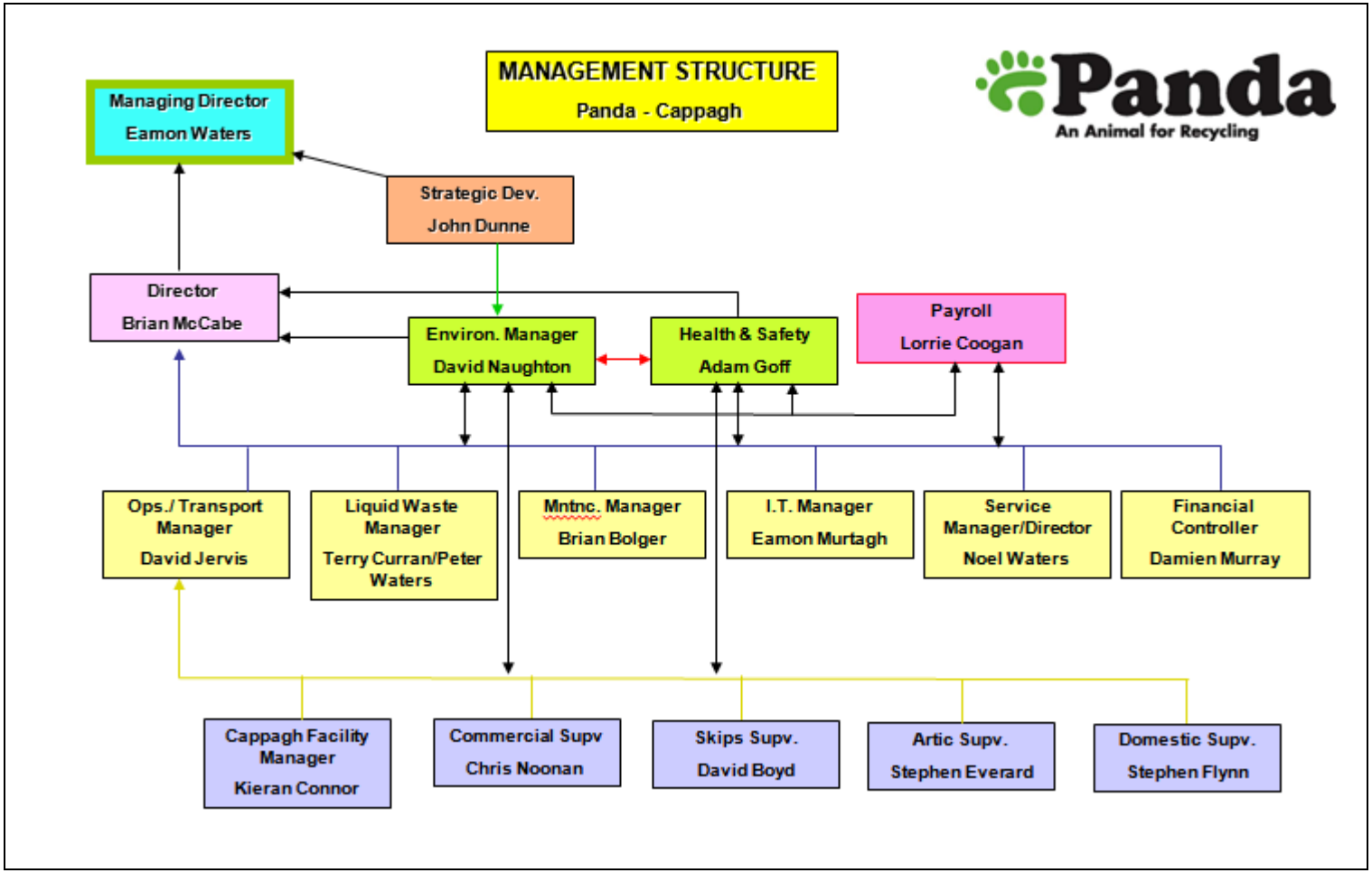
Appendix A

Site Layout



Appendix B

Organisational Structure



Appendix C

Financial Statement

Fagan Lynch Donnellan
Chartered Accountants & Registered Auditors

Our Ref: VL/NMcK

6th March 2013

Environmental Protection Agency,
McCumiskey House,
Richview,
Clonskeagh Road,
Dublin 14.

Re: Irish Packaging Recycling Limited

Dear Sir,

We act as Auditors and Taxation Agents for the above and have acted in this capacity for the past 6 years.

We wish to confirm as follows:

1. Statutory Accounts have been filed for all years up to 31.12.2011 with the Companies Office.

   Accounts and Tax Returns have also been filed with Inspector of Taxes for all years to 31st December 2011.

2. The Company trades profitably and is on a very sound financial footing.

If you have any queries, please do not hesitate to contact us.

Yours faithfully,

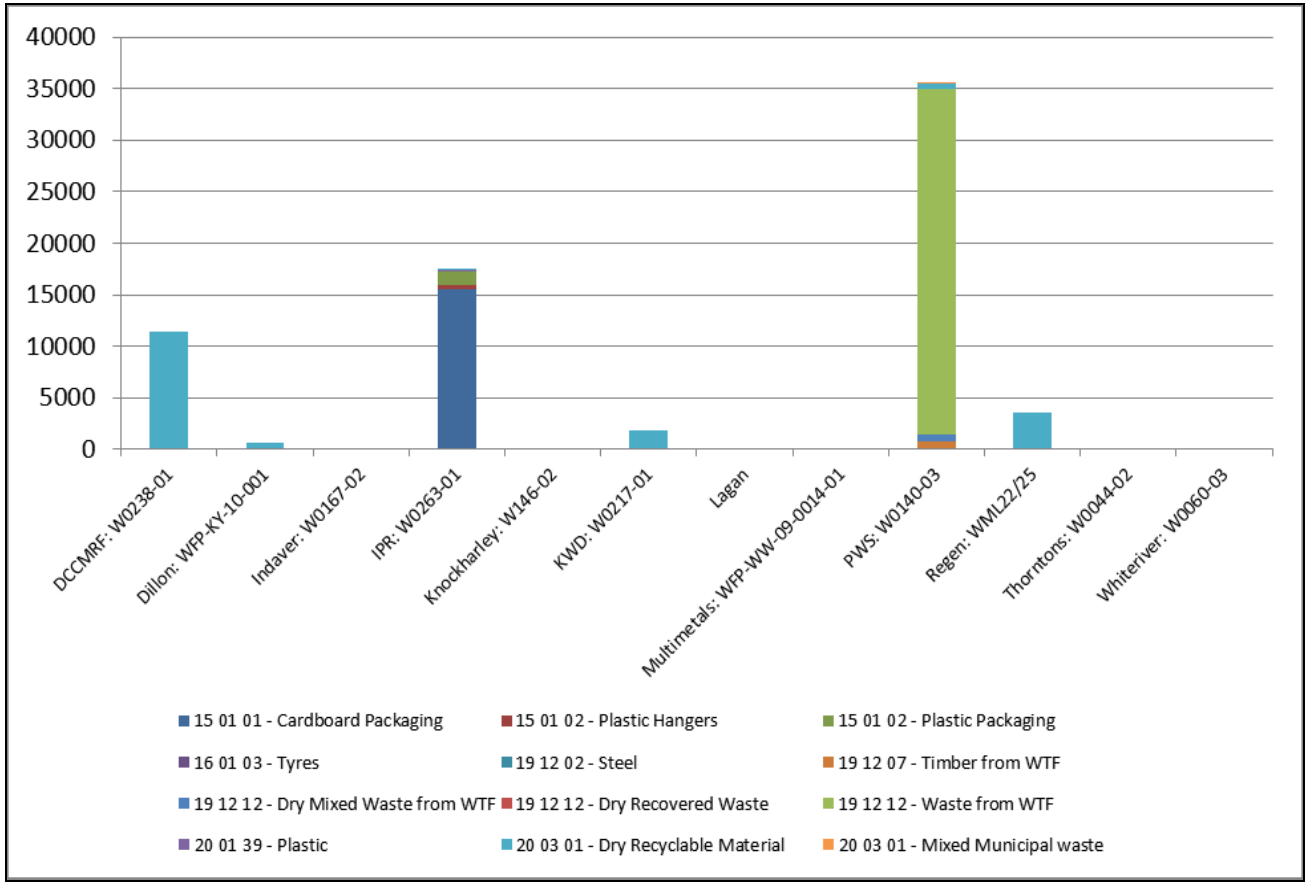
Fagan Lynch Donnellan
FAGAN LYNCH DONNELLAN

Newbridge House, Athlumney, Navan, Co. Meath
Tel: (046) 9033700 Fax: (046) 9029341 e-mail: info@fld.ie www.fld.ie

John Fagan FCA Vincent Lynch FCA Mark McCartney FCCA

Appendix D

Outgoing by Destination



Appendix E

PRTR Emissions

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.15

REFERENCE YEAR	2012
1. FACILITY IDENTIFICATION	
Parent Company Name	Nurendale Limited trading as Panda Waste Services
Facility Name	Panda Waste
PRTR Identification Number	W0261
Licence Number	W0261-01
Waste or IPPC Classes of Activity	
N.	**class_name**
4.4	Recycling or reclamation of other inorganic materials.
3.11	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.12	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
4.11	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
4.13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
Address 1	Cappagh Road
Address 2	Finglas
Address 3	Dublin 11
Address 4	
	Dublin
Country	Ireland
Coordinates of Location	-6.3388153.40272
River Basin District	IEEA
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	David Naughton
AER Returns Contact Email Address	david.naughton@panda.ie
AER Returns Contact Position	Environmental Manager
R Returns Contact Telephone Number	1850 65 65 65
eturns Contact Mobile Phone Number	086 6045905
AER Returns Contact Fax Number	046 9024189
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	80
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES	
Activity Number	**Activity Name**
50.1	General
5(a)	Installations for the recovery or disposal of hazardous waste
5(c)	Installations for the disposal of non-hazardous waste
50.1	General

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)	
Is it applicable?	No
Have you been granted an exemption ?	No
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 ON	Guidance on waste imported/accepted onto site
Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	

4.1 RELEASES TO AIR Link to previous years emissions data

Return Year: 2012 | 25/03/2013 11:50

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR		Please enter all quantities in this section in KGs			
POLLUTANT		ADD EMISSION POINT	QUANTITY		
No. Annex II	Name	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
		0.0	0.0	0.0	0.0

ADD NEW ROW | DELETE ROW* *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		Please enter all quantities in this section in KGs			
POLLUTANT		ADD EMISSION POINT	QUANTITY		
No. Annex II	Name	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
		0.0	0.0	0.0	0.0

ADD NEW ROW | DELETE ROW* *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		Please enter all quantities in this section in KGs				
POLLUTANT		ADD EMISSION POINT		QUANTITY		
		DS1	DS2			
Pollutant No.	Name	Emission Point 1	Emission Point 2	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
210	Dust	0.04	0.05	0.09	0.0	0.0

ADD NEW ROW | DELETE ROW* *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) emissions to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill: Panda Waste

Please enter summary data on the quantities of methane flared and / or utilised

	T (Total) kg/Year	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

Link to previous years emissions data

IPRTR# : W0261 | Facility Name : Panda Waste | Filename : w0261_2012 (2).xlsx | Return Year : 2012 | 25/03/2013 11:50

Data on ambient monitoring of stormdrain/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT					ADD EMISSION POINT	QUANTITY		
			Method Used					
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	0.0

ADD NEW ROW | DELETE ROW* *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					Please enter all quantities in this section in KGs			
POLLUTANT					ADD EMISSION POINT	QUANTITY		
			Method Used					
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	0.0

ADD NEW ROW | DELETE ROW* *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					Please enter all quantities in this section in KGs			
POLLUTANT					ADD EMISSION POINT	QUANTITY		
			Method Used					
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	0.0

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

4.3 RELEASES TO WASTEWATER OR SEWER

vious years emissions data

IPRTR# : W0261 | Facility Name : Panda Waste | Filename : w0261_2012 (2).xlsx | Return Year : 2012 | 25/03/2013 11:50

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TINT OR SEWER				Please enter all quantities in this section in KGs			
POLLUTANT		METHOD		ADD EMISSION POINT	QUANTITY		
		Method Used					
No. Annex II	Name	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
06	Ammonia (NH3)	ALT	Colorimetry	0.0	0.0	0.0	0.0
17	Arsenic and compounds (as As)	ALT	ICPMS	0.0	0.0	0.0	0.0
18	Cadmium and compounds (as Cd)	ALT	ICPMS	0.0	0.0	0.0	0.0
79	Chlorides (as Cl)	ALT	Colorimetry	0.02	0.02	0.0	0.0
19	Chromium and compounds (as Cr)	ALT	ICPMS	0.0	0.0	0.0	0.0
20	Copper and compounds (as Cu)	ALT	ICPMS	0.0	0.0	0.0	0.0
23	Lead and compounds (as Pb)	ALT	ICPMS	0.0	0.0	0.0	0.0
21	Mercury and compounds (as Hg)	ALT	ICPMS	0.0	0.0	0.0	0.0
22	Nickel and compounds (as Ni)	ALT	ICPMS	0.0	0.0	0.0	0.0
24	**Zinc and compounds (as Zn)**	ALT	ICPMS	0.0	0.0	0.0	0.0

ADD NEW ROW | DELETE ROW* *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 TINT OR SEWER				Please enter all quantities in this section in KGs			
POLLUTANT		METHOD		ADD EMISSION POINT	QUANTITY		
		Method Used					
Pollutant No.	Name	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
303	BOD	ALT	Electrometry	0.06	0.06	0.0	0.0
374	Boron	ALT	ICPMS	0.0	0.0	0.0	0.0
306	COD	ALT	Colorimetry	0.11	0.11	0.0	0.0
324	Mineral oils	SSC	GC- FID	0.0	0.0	0.0	0.0
370	Selenium	ALT	ICPMS	0.0	0.0	0.0	0.0
240	Suspended Solids	ALT	Filtration/Drying @104C	0.06	0.06	0.0	0.0
343	Sulphate	ALT	Colorimetry	0.07	0.07	0.0	0.0

4.4 RELEASES TO LAND Link to previous years emissions data | PRTR# : W0261 | Facility Name : Panda Waste | Filename : w0261_2012 (2).xls | Return Year : 2012 | 25/03/2013 11:50

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			ADD EMISSION POINT	QUANTITY	
			Method Used				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental)
					0.0	0.0	0.0

ADD NEW ROW | DELETE ROW * * 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					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			ADD EMISSION POINT	QUANTITY	
			Method Used				
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental)
					0.0	0.0	0.0

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF W [PRTR#: W0261 | Facility Name: Panda Waste | Filename: PRTR W0261_2012.xls | Return Year: 2012]

Please enter all quantities on this sheet in Tonnes

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 Recoverer/Disposer	Haz Waste: Address of Next Destination Facility Non Haz Waste: Address of Recoverer/Disposer
						M/C/E	Method Used			
Within the Country	15 01 01	No	15540.82	paper and cardboard packaging	R12	M	Weighed	Offsite in Ireland	Irish Packaging Recycling Ltd,W0263-01	Lower Ballymount Road,Walkinstown,Dublin 12,,,Ireland
Within the Country	15 01 02	No	1747.14	plastic packaging	R12	M	Weighed	Offsite in Ireland	Irish Packaging Recycling Ltd,W0263-01	Lower Ballymount Road,Walkinstown,Dublin 12,,,Ireland
Within the Country	19 12 02	No	133.62	ferrous metal	R12	M	Weighed	Offsite in Ireland	Multimetals,WFP-WW-09-0014-01	Conway Port Industrial Estate,Bollarney,Murrough, Co. Wicklow,Ireland
Within the Country	19 12 07	No	672.56	wood other than that mentioned in 19 12 06	R12	M	Weighed	Offsite in Ireland	Panda Navan,W0140-03	Rathdrinagh,Beauparc,Navan,Co. Meath,Ireland
Within the Country	19 12 12	No	34103.72	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R12	M	Weighed	Offsite in Ireland	Panda Navan,W0140-03	Rathdrinagh,Beauparc,Navan,Co. Meath,Ireland
Within the Country	20 03 01	No	15.96	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Knockharley Landfill,W0146-02	Knockharley ,Navan,Co. Meath,,,Ireland
Within the Country	20 03 01	No	74.88	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Whiteriver Landfill,W0060-02	Dunleer,Co. Louth,,,,Ireland
Within the Country	15 01 01	No	96.72	paper and cardboard packaging	D1	M	Weighed	Offsite in Ireland	Panda Navan,W0140-03	Rathdrinagh,Beauparc,Navan,Co. Meath,Ireland
Within the Country	20 03 01	No	11367.49	Dry Recyclables	R12	M	Weighed	Offsite in Ireland	Dublin City Council MRF,W0238-01	Merrywell Business Park,Ballymount,Dublin 12,,,Ireland
Within the Country	20 03 01	No	638.1	Dry Recyclables	R12	M	Weighed	Offsite in Ireland	Dillon waste and recycling,WFP KY 10-001	The Kerries,Tralee,Co. Kerry,,,Ireland
Within the Country	20 03 01	No	95.14	Dry Recyclables	R12	M	Weighed	Offsite in Ireland	Irish Packaging Recycling Ltd,W0263-01	Lower Ballymount Road,Walkinstown,Dublin 12,,,Ireland
Within the Country	20 03 01	No	1849.72	Dry Recyclables	R12	M	Weighed	Offsite in Ireland	Killarney Waste Disposal,W0217-01	Aughacurreen,Killarney,Co. Kerry,,,Ireland
Within the Country	20 03 01	No	573.68	Dry Recyclables	R13	M	Weighed	Offsite in Ireland	Panda Navan,W0140-03	Rathdrinagh,Beauparc,Navan,Co. Meath,Ireland
To Other Countries	20 03 01	No	3551.2	Dry Recyclables	R12	M	Weighed	Abroad	Regen,44110	Shepherds Drive,Carnbane Industrial Estate,Newry Co. Down,BT35 6JQ,United Kingdom
Within the Country	20 03 01	No	15.04	Dry Recyclables	R12	M	Weighed	Offsite in Ireland	Thorntons Recycling,WFP-DC-10-0021-02	Unit 51 Henry Road,Park West Business Park,Dublin 12,,,Ireland
Within the Country	20 03 01	No	30.81	mixed municipal waste	R1	M	Weighed	Offsite in Ireland	Indaver,W0167	Carranstown,Duleek,Co. Meath,,,Ireland
Within the Country	20 03 01	No	7.14	mixed municipal waste	R12	M	Weighed	Offsite in Ireland	Panda Navan,W0140-03	Rathdrinagh,Beauparc,Navan,Co. Meath,Ireland
Within the Country	20 01 39	No	68.18	plastics	R12	M	Weighed	Offsite in Ireland	Irish Packaging Recycling Ltd,W0263-01	Lower Ballymount Road,Walkinstown,Dublin 12,,,Ireland
Within the Country	19 12 12	No	25.06	RDF	R12	M	Weighed	Offsite in Ireland	Panda Navan,W0140-03	Rathdrinagh,Beauparc,Navan,Co. Meath,Ireland
Within the Country	19 12 10	No	50.94	SRF	R1	M	Weighed	Offsite in Ireland	Lagan Cement,P0487	Kinnegad,Co. Westmeath,,,,Ireland
Within the Country	16 01 03	No	1.8	end-of-life tyres	R1	M	Weighed	Offsite in Ireland	Indaver,W0167	Carranstown,Duleek,Co. Meath,,,Ireland

ADD NEW ROW | DELETE ROW*

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