Site: Ballymount Cross, Tallaght, Dublin 24

Waste Licence Number W0039-02

Annual Environmental Report

01st January 2013 – 31st December 2013

Table of Contents

1. Introduction

Panda were granted the EPA Waste Licence W0039-02 on the 10th July 2012; following the transfer of the licence from Greenstar Environmental Services Ltd. Panda are licenced to accept 150,000 tonnes per annum. Appendix A illustrates the current site layout.

1.1 Company details

Licence No:	W0039-02
Name:	Nurendale T/a Panda Waste Services
Address:	Ballymount Cross, Tallaght, Dublin 24.
Telephone Number:	1850 65 65 65
Fax Number:	01 4245011
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. David Boyd is the facility Manager on site. There are 120 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 W0039-02, 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 facility is licenced to operate 24 hours a day, however, 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 "IWS6". 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 Domestic, Commercial & Industrial mixed municipal waste and organic waste. 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 loading shovel, 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 or to appropriate for recovery or disposal.

1.7 Water Usage:

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

Water usage on site consists of:

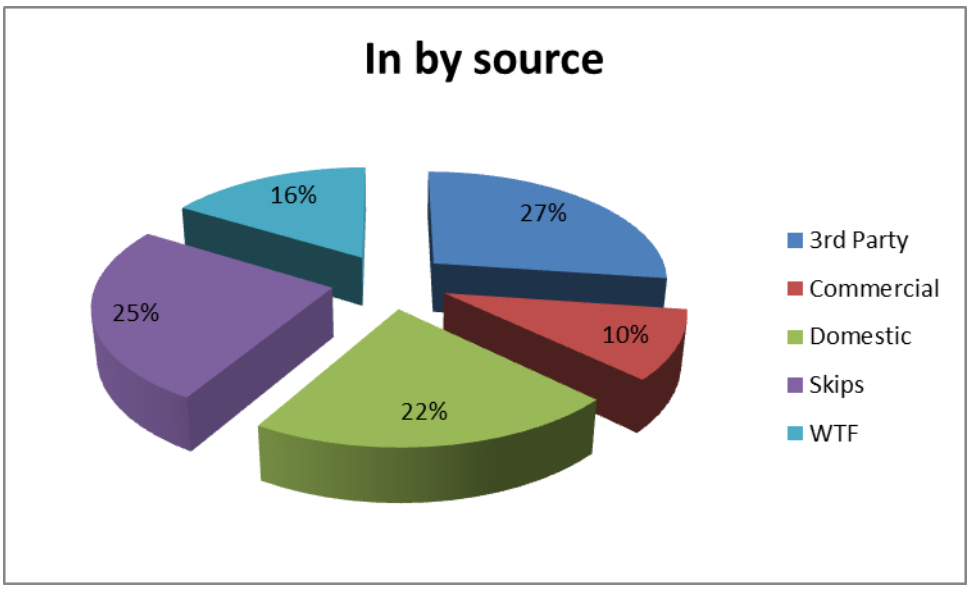
- In-house road sweeper (daily visits).
- Dust suppression sprayers in the shed and on the doorways.
- Hoses on site for dust suppression.
- Fire Fighting equipment.

2. Summary Information

2.1 Waste Received

The waste received at the facility from the 1st January 2013 to the 31st December 2013 was 138,277.70 tonnes. From the pie chart (Fig 1) it is evident that 3rd party deliveries are the largest source of Panda's waste accepted into Ballymount with Panda's skip waste deliveries the 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 operates various systems to maximise recovery and recycling with most processing being carried out in the headquarters' facility.

Panda applied to the Agency for a review the current Waste Licence (W0140-03) for the Beauparc facility in September 2009. This review was submitted to the Agency, so that

Panda can produce a SRF/RDF product from the residual waste previously sent to Landfill. 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.

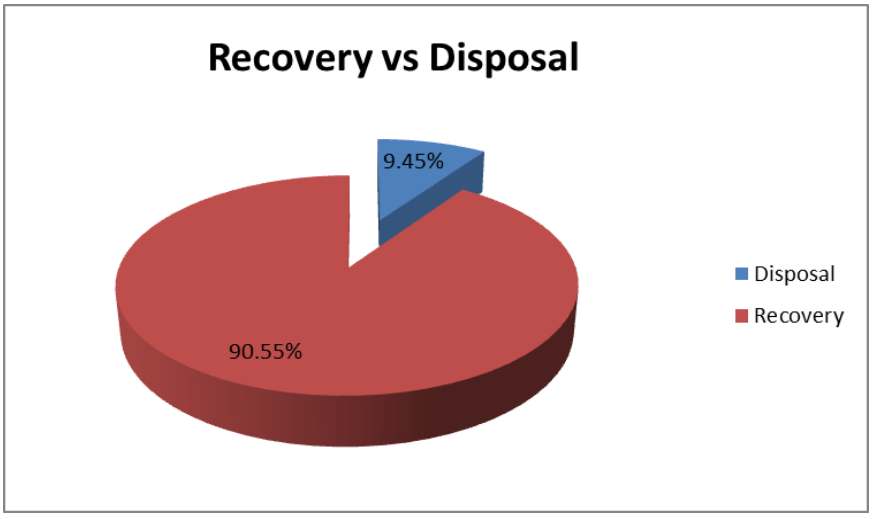
Panda process the mixed C&D waste in the Beauparc facility in building 2, this includes a shredder, trommel, magnet, wind shifter and a picking line so as to divert as much C&D waste away from landfill as possible in order to comply with "A Resource Opportunity, 2012" for landfill diversion. To date the processing of C&D Waste has been extremely successful with the majority of the residual being processed into Solid Recovered Fuel.

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	12,997.10
Recovery	124,324.95

Fig. 2: Outgoing destination recovery rate.



2.4 Summary report on emissions and interpretation of environmental monitoring

Under Schedule C of the licence W0039-2, Panda are required to monitor surface water, foul water emissions, BMW content of municipal waste dispatched to landfill (Frequency-as specified by the Agency), 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 municipal storm water network. The surface water monitoring point is located at the south-western corner of the facility at the co-ordinates X/E 309589 Y/N 230305 (SW1).

Table 2. Surface water monitoring 2013

Parameter	Units	31/01/13	February	28/03/13	23/04/12	15/05/12	11/06/12
BOD	mg/L	<2	Ns		<2	<2	<2
COD	mg/L	10	Ns	<5	5	12	
Electrical Conductivity	us/cm	130.1	Ns		345	361	
Oils, Fats & Grease	mg/L	<1	Ns	<1	<1	<1	<1
pH	pH units	7.7	Ns		7.0	7.4	7.6
Suspended Solids	mg/L	16	Ns	3	<2	17	43

Parameter	Units	July	29/08/13	September	October	29/11/13	20/12/12
BOD	mg/L	Ns	10	Ns	Ns	<2	<2
COD	mg/L	Ns	14	Ns	Ns	8	21
Electrical Conductivity	mS/cm	Ns	241	Ns	Ns	330	429
Oils, Fats & Grease	mg/L	Ns	<1	Ns	Ns	<1	<1
pH	pH units	Ns	7.1	Ns	Ns	7.6	7.5
Suspended Solids	mg/L	Ns	24.6	Ns	Ns	9	14

Ns = No sample taken due to lack of flow (stagnant water)

Result for Suspended solid was exceeded in June. At the time of monitoring, there had not been any incidents (spill or accidental release) which could be identified as the source. An incident report form was submitted to the Agency in relation to this exceedance.

2.4.2 Foul Water

Foul water passes through a silt trap and oil interceptor prior to being discharged to the sewer network. The foul water monitoring point is located at the south-western corner of the facility at the co-ordinates X/E 309604 Y/N 230321 (FS1). Results were exceeded in April for COD and Suspended Solids. Inadequate drain cleaning was believed to be the cause.

Table 3. Foul water monitoring 2013

Parameter	Units	31/01/13	27/03/13	23/04/13	14/05/13	26/09/13	20/12/13
BOD	**mg/L**	480		1425	550	0	530
COD	**mg/L**	1240	1370	5730	1660	5	1016
Oils, Fats & Grease	**mg/L**	42	40	96	48	0	16
pH	**pH units**	7.4		5.9	6.7	7.8	6.7
Surfactants	**ug/L**	0.403	0.057	1.911	0.053	0	0.473
Suspended Solids	**mg/L**	534	538	1406	597	6	84

2.4.3 Dust Emissions

As per schedule E.2 for dust deposition limits, there are currently four sampling locations (DS1, DS2, DS3 and DS4). Monitoring is required three times a year. A dust suppression unit was installed in the shed and on doorways to ensure dust emissions from the tipping, sorting and reloading are kept to a minimum. Figs 3-6 illustrate dust recordings for 2013.

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

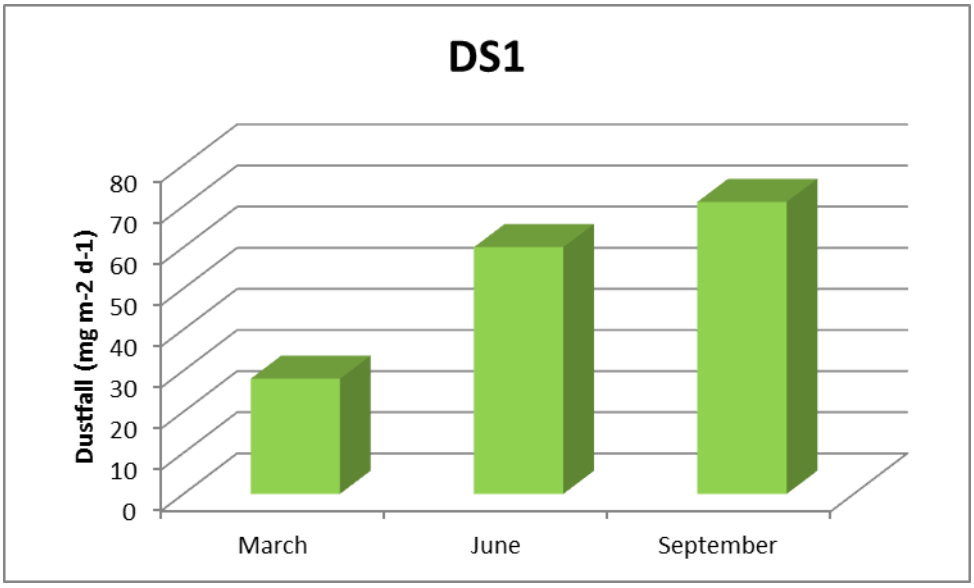


Fig. 4: Dust emission results for DS2 (AD2)

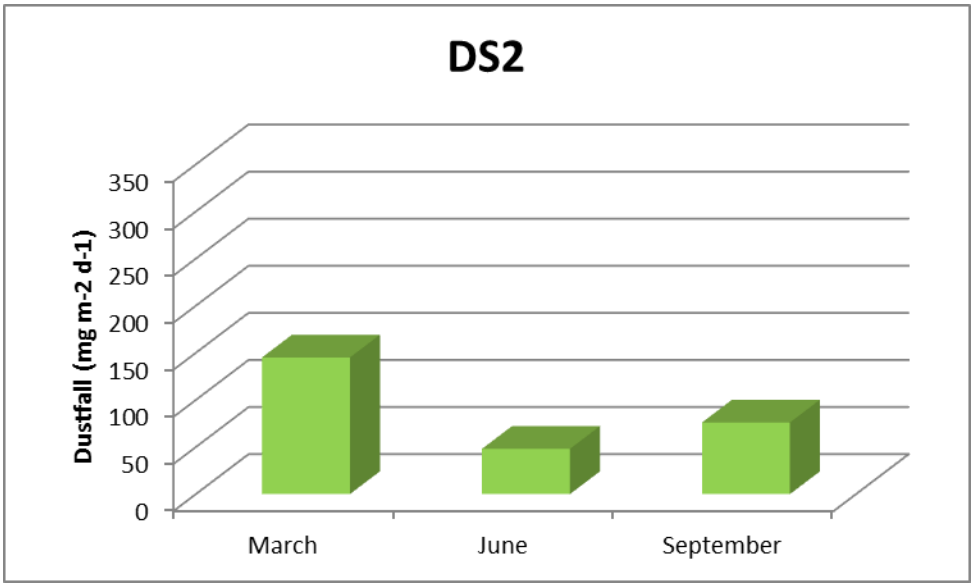


Fig. 5: Dust emission results for DS3

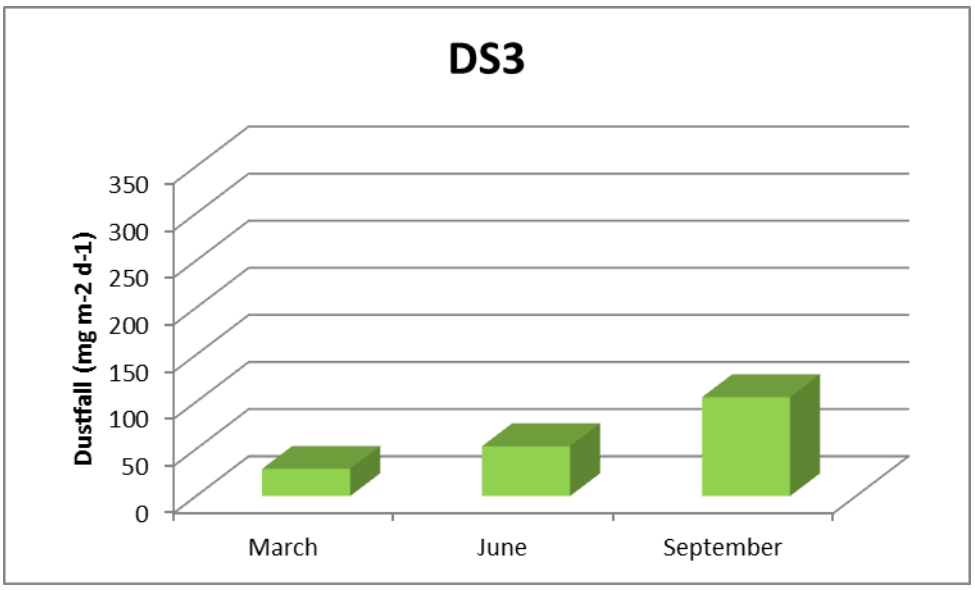
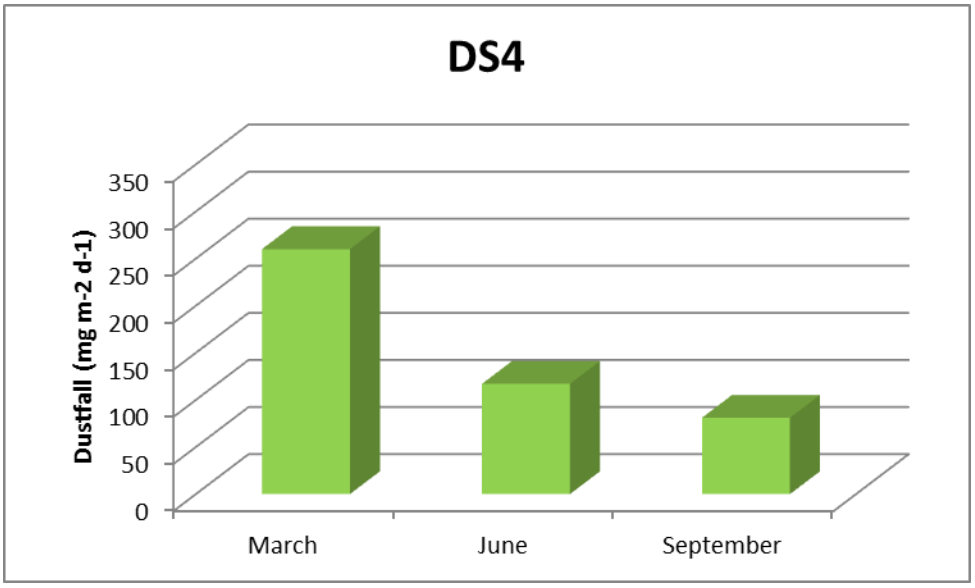


Fig 6: Dust emissions results for DS4



As per Schedule F.2, the dust deposition limit for the site is 350 mg m^{-2} d^{-1}. DS1 to DS4 are within licenced ELV's.

2.4.4 Noise Emissions

Noise emissions are monitored according to Schedule E.3 and the emission limit values (ELV) set out in Schedule F.4 of the licence. An independent competent consultant has

been commissioned to conduct the noise sampling for the facility. Table 4 and 5 details results of noise monitoring conducted on the 17th December 2013.

Table 4. Noise emissions 2013

Day-time Recorded Noise Levels dB(A) – Intervals 30 minutes

Location	Date	Time	Leq	L10	L90	Comments
B1	17th Dec'13	15.49	64.4	66.9	58.9	Teleporter working closeby and trucks on site
B2	17th Dec'13	15.12	61.8	63.5	58.8	Trucks entering and exiting building closeby
B3	17th Dec'13	15.08	64.5	66.8	58.5	Road traffic (Ballymount Rd Upper) and trucks entering and exiting site. Site emsiions in the region of background of 58.5dBA
NSL1	17th Dec'13	16.00	68.7	71.1	62.1	Waste facility inaudible at less than Lmin of 56.8dBA. Site emissions less than 55dBA

Table 5

Night-time Recorded Noise Levels dB(A) – Intervals 30 minutes

Location	Date	Time	Leq	L10	L90	Comments
B1	17th Dec'13	22.45	54.4	56.4	52.6	Road traffic-No activity on Waste site
B2	17th Dec'13	23.00	54.6	56.9	52.2	Road traffic-No activity on Waste site
B3	17th Dec'13	22.30	58.5	60.6	55.3	Road traffic-No activity on Waste site
NSL1	17th Dec'13	23.45	60.1	62.2	55.9	Road traffic-No activity on Waste site

The main operation on site is housed (segregation and loading of material). Other activity on-site was activity associated with the forklift and trucks entering and leaving the site. All operations on site were being carried out. The dominant noise outside the site is from the busy road network (adjacent Ballymount Road and M50).

The daytime noise emissions at NSL1 were in-audible at an Lmin of 56.8dBA so the contribution from the waste facility would therefore be below 55 dBA and within the noise limit (noise emissions from the site would be audible at a level of at least 3 dBA below the existing road traffic level on the Ballymount Rd Upper).

The daytime road traffic flow on the Ballymount Road was 888 vehicles in a 30 minute period comprising 42 HCV's (including 11 HCV movements in and out of the waste facility site). There was no traffic (HCV's) entering or exiting the site at night-time.

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 integrity test was carried out in 2012. The results show that the bund has maintained its integrity. The pipeline integrity test has been carried out in 2013, following alterations to the drainage network.

2.4.6 Summary of resource and energy consumption

Table 6: Summary of Energy Consumption from January 2013 to December 2013.

Resource	
Gas Oil	48,965 Litres
Electricity	207.621 MWhr

2.4.7 Water

Water is obtained from the municipal water 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. Weighbridge.
3. One x Waste processing building
4. One x Dust suppression system
5. Canteen & toilets.
6. Oil Interceptor
7. Fuel Depot

List 2: Waste processing equipment

1 x loading shovel

There is sufficient back up within the group to replace loading/sorting equipment in the event of a break down.

2.5.2 Planned Infra-structure

Proposed infrastructure is outlined in List 3.

List 3: Proposed infrastructure:

1. Repair working on external of building
2. Negative air system to be installed.

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

Water usage on site is already at a minimum. No proposals required.

2.7 PRTR Emission.

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

3. Environmental objectives and targets – 2014.

No	Objective & Target	Method of Achievement	Responsibility	2013 Programme	Complete in 2013	2014 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	Continuous	July '14
		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 and drains are maintained and regularly cleaned	Facility Manager	Continuous	Continuous	Continuous
3	**Assess & Review Resource & Energy Consumption at the site**	Carry out an energy audit on the site	Environmental Manager	N/a	N/a	September '14
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	July '13	Complete	July '14

	Objective & Target	Method of Achievement	Responsibility	2013 Programme	Complete in 2013	2014 Programme
8	**To control any emergencies that may arise at the facility**	Review and implement the Emergency Response Procedure	Environmental Manager	July '13	Complete	July '14
9	**Prepare a Standard Operating Procedures Manual**	Review the SOP manual relevant to site operations	Environmental Manager	May '13	Complete	May '14
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	Facility Manager	June '13	Complete	June '14
12	**Office Recycling**	Review office recycling	Facility Manager	May '13	Complete	May '14
13	**Pipe Integrity Test**	Carry out a Pipe Integrity Test	Environmental Manager	Q3 '13	Complete	2016

3.1 Summary of reported incidents and complaints

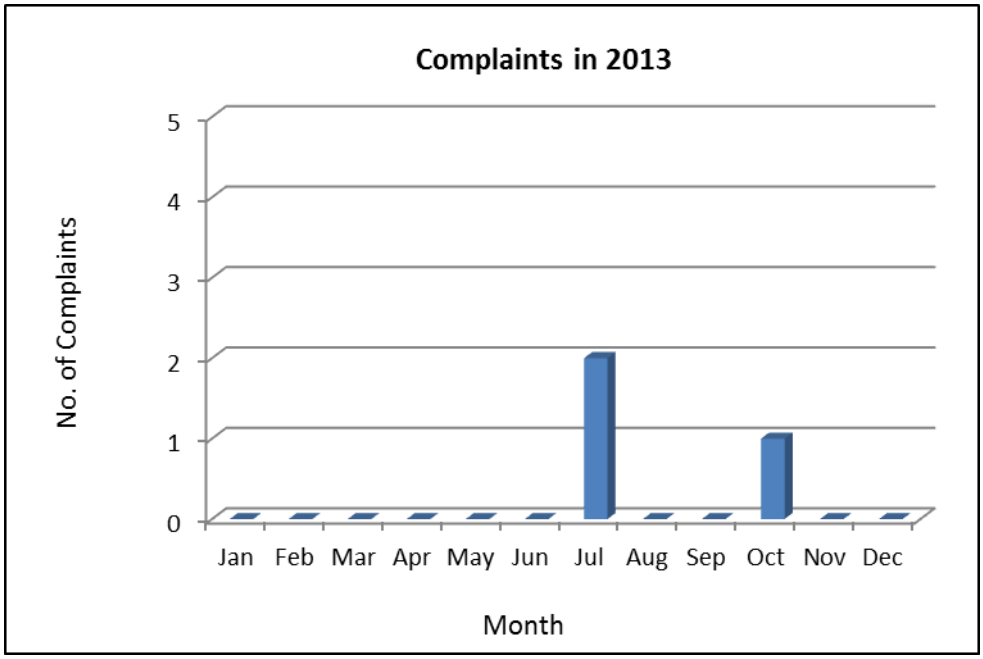
3.1.1 Reported Incidents Summary

Two reportable incidents occurred in 2013 whereby emission limit values were exceeded. One in April for Foul water discharge and one in June for Surface water discharge.

3.1.2 Complaints:

There were a total of 3 complaints made to the Agency and/or the facility during this reporting year of 2013. Complaints illustrated in Fig 7.

Fig. 7: 2013 complaints



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 doorways of the building. A road sweeper visits the site each day of operation. 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 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 Emergency Response Procedure (ERP) was reviewed and amended to reflect the changes of the company and update useful contact telephone numbers.

A review of all site procedures was carried out, and the following procedure was developed;

- SOP 21 Filling of fuel tanks and mobile plant.

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 proves extremely beneficial during inclement weather conditions informing customers of difficulties with collecting waste on specified days due to dangerous road conditions.

Over the Christmas period 2013 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 periods of inclement weather conditions; this enables Panda to contact customers to inform them that collection days may have to be changed to alternative days, 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.

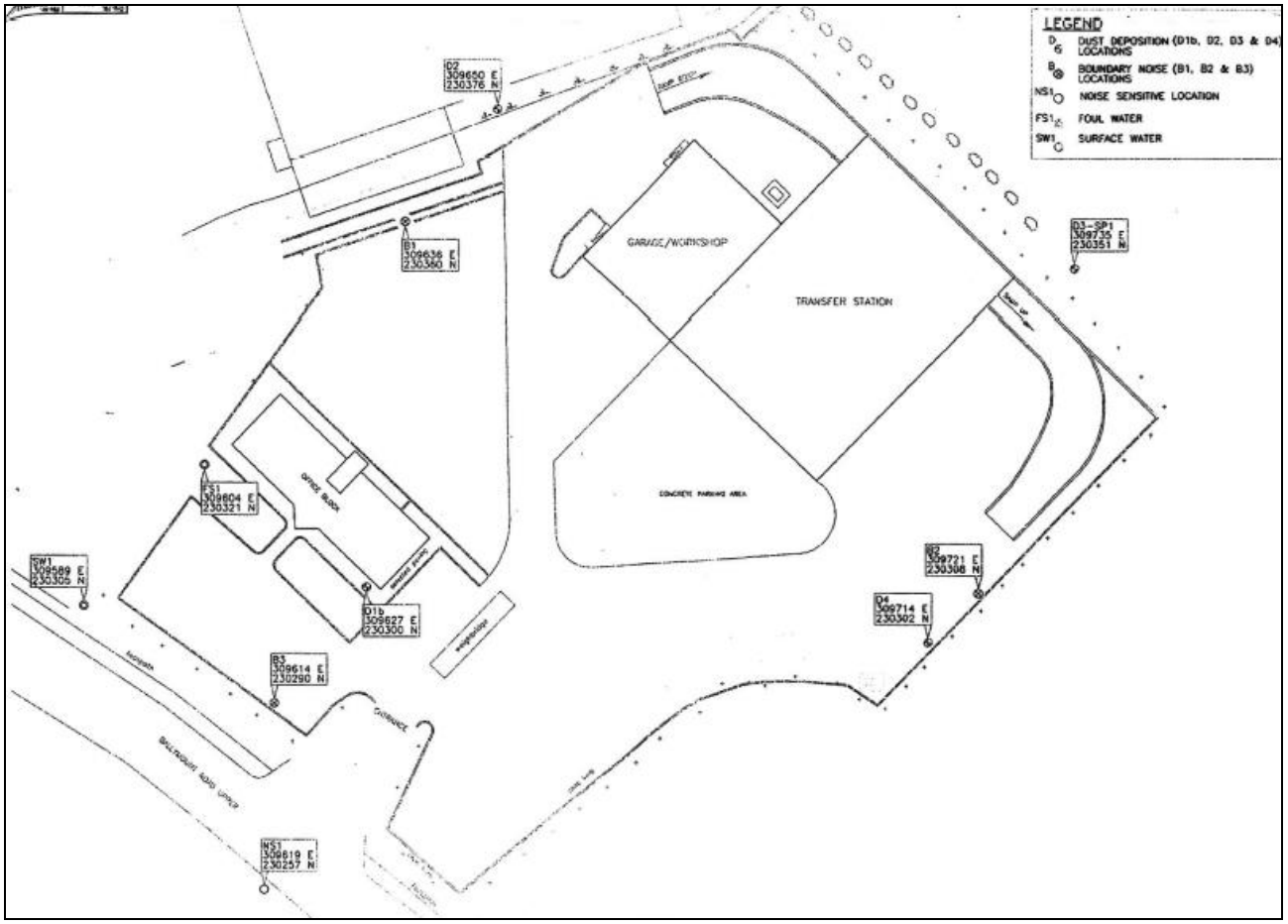
Advertisements are taken out regularly in the local newspapers informing customers of the services that Panda offer. There is also a large advertisement in the golden pages, which is available to the general public. Regular tours of the facility are given to schools and to members of the public upon 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 2013.

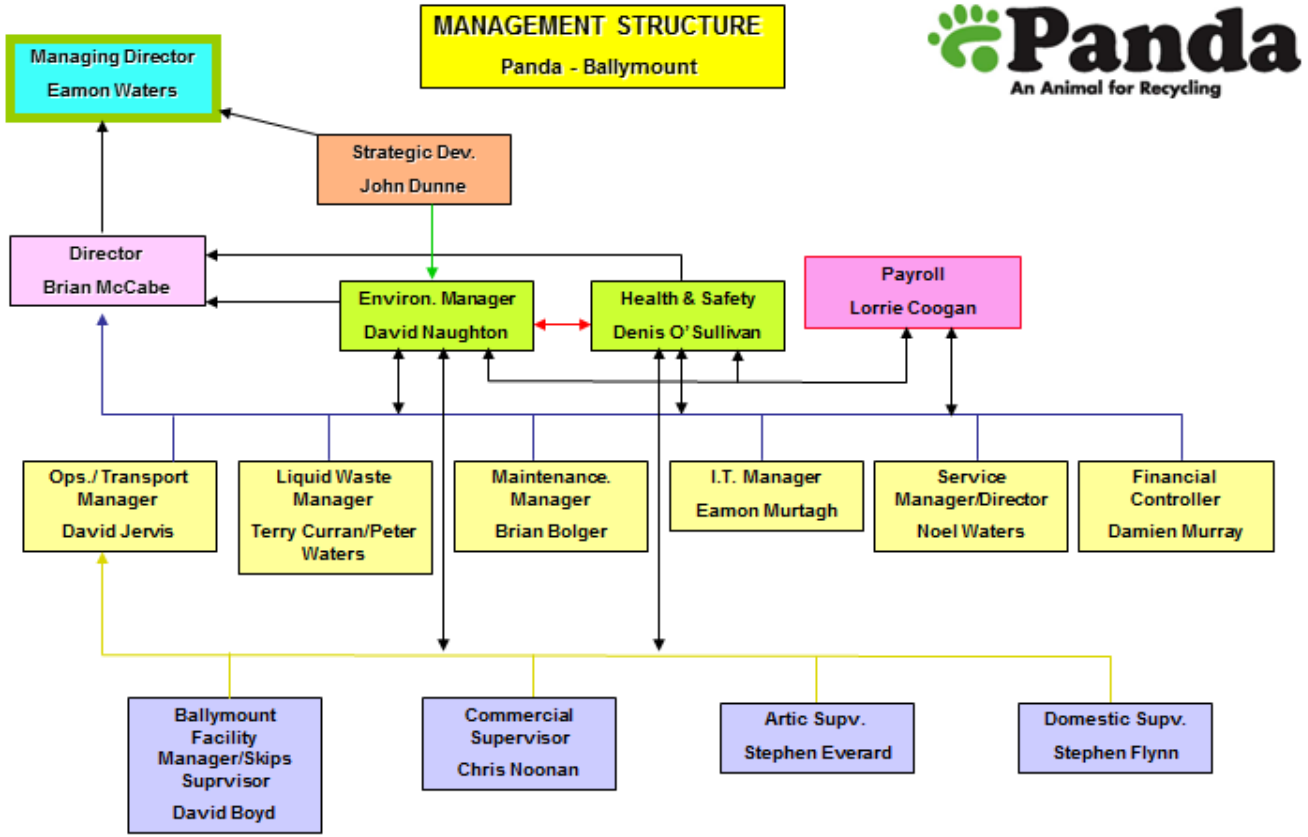
Appendix A

Site Layout



Appendix B

Organisational Structure



Appendix C

Financial Statement

Fagan Lynch Donnellan
Chartered Accountants & Registered Auditors

Our Ref: VL/NMcK

08th January 2014

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

Re: Nurendale Ltd T/A Panda Waste

Dear Sir,

We act as Accountants and Taxation Agents for the above and have acted in this capacity in excess of 10 years.

We wish to confirm as follows:

1. Statutory Accounts have been filed for all years up to 31.12.2012 with the Companies Office.

   Accounts and Tax Returns have also been filed with Inspector of Taxes for all years to 31st December 2012.

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.

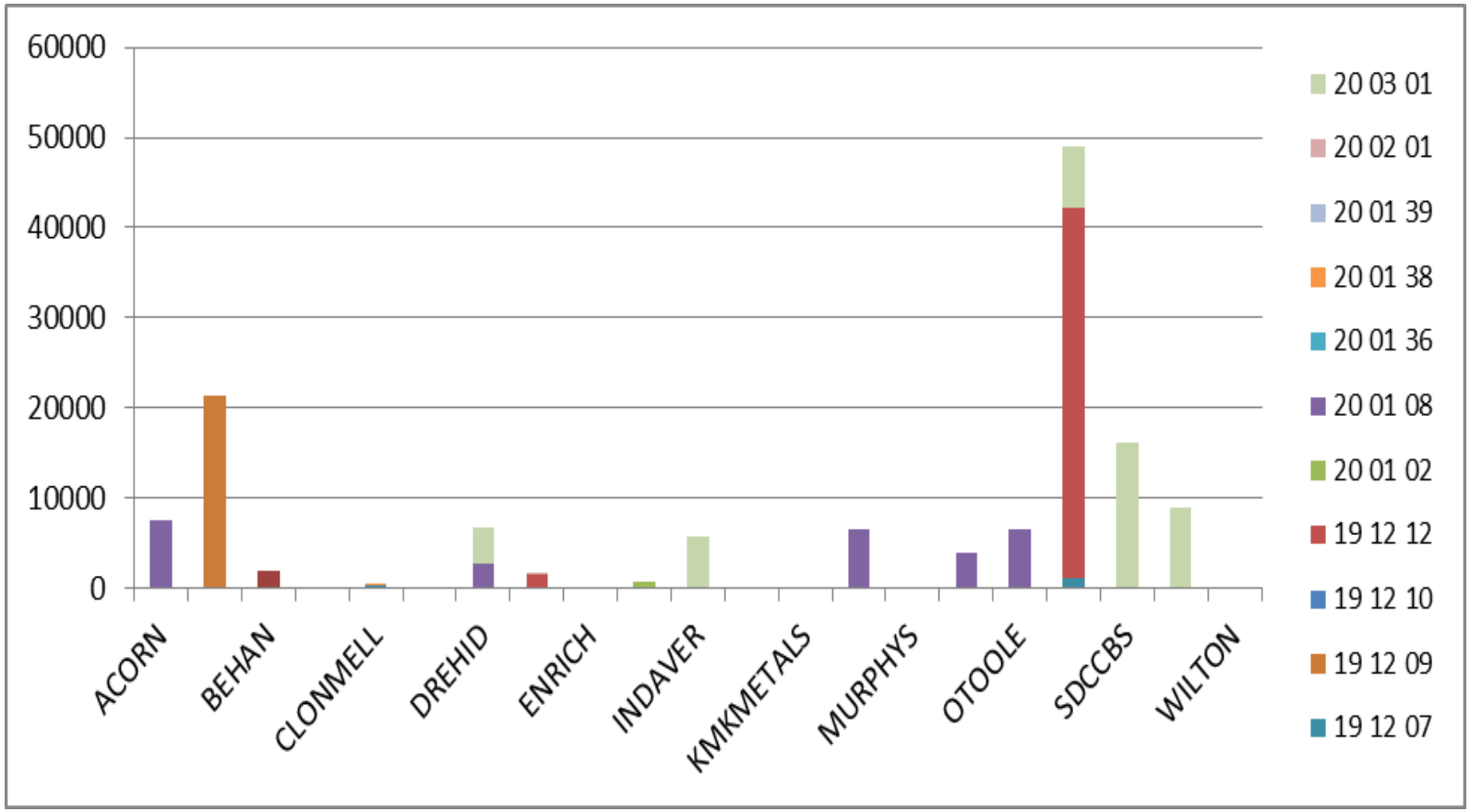
Yours faithfully,

FAGAN LYNCH DONNELLAN

Newbridge House, Ashbourne, Navan, Co. Meath
Tel: (046) 9031700 Fax: (046) 9023341 e-mail: info@fld.ie www.fld.ie
John Fagan FCA Vincent Lynch FCA Mark McCartney FCCA

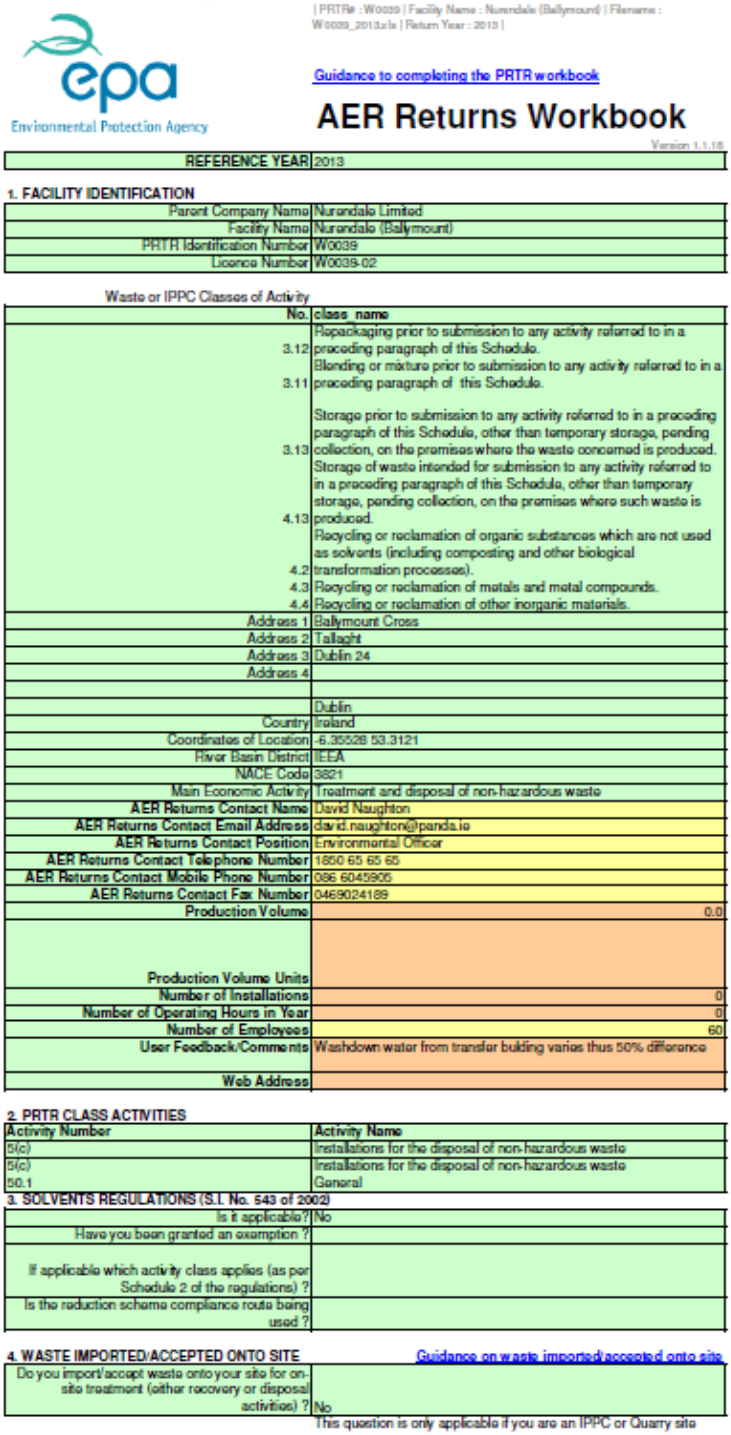
Appendix D

Outgoing by Destination



Appendix E

PRTR Emissions



| PRTR# : W0039 | Facility Name : Nurendale (Ballymount) | Filename : W0039_2013.xls | 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	Nurendale Limited
Facility Name	Nurendale (Ballymount)
PRTR Identification Number	W0039
Licence Number	W0039-02

Waste or IPPC Classes of Activity

No.	class_name
3.12	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.11	Blending or mixture 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.
4.13	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.
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Ballymount Cross
Address 2	Tallaght
Address 3	Dublin 24
Address 4	
	Dublin
Country	Ireland
Coordinates of Location	-6.35528 53.3121
River Basin District	IEEA
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	David Naughton
AER Returns Contact Email Address	david.naughton@panda.ie
AER Returns Contact Position	Environmental Officer
AER Returns Contact Telephone Number	1850 65 65 65
AER Returns Contact Mobile Phone Number	086 6045905
AER Returns Contact Fax Number	0469024189
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	60
User Feedback/Comments	Washdown water from transfer bulding varies thus 50% difference
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(c)	Installations for the disposal of non-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 ?	
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

This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR Link to previous years emissions data | PRTR# : W0039 | Facility Name : Nurendale (Ballymount) | Filename : W0039_2013.xls | Return Year : 2013 | 25/04/2014 15:06

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			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

* 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		METHOD			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

* 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		METHOD			QUANTITY						
			Method Used		DS1						
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
210	Dust	M	ALT	Gravimetry	0.0193	0.0227	0.0228	0.0557	0.1305	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: Nurendale (Ballymount)

Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used: Method Code	Method Used: 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 Link to previous years emissions data | PRTR# : W0039 | Facility Name : Nurendale (Ballymount) | Filename : W0039_2013.xls | Return Year : 2013 | 25/04/2014 15:06

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					Please enter all quantities in this section in KGs			
POLLUTANT					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

* 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					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

* 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					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

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

4.3 RELEASES TO WASTEWATER OR SEWER Link to previous years emissions data | PRTR# : W0039 | Facility Name : Nurendale (Ballymount) | Filename : W0039_2013.xls | Return Ye 25/04/2014 15:06

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			
			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

* 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			
			Method Used		FS1			
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
303	BOD	M	PER	Calculated based on annual flow rate. Analysis is ISO accrediated	1.73	1.73	0.0	0.0
306	COD	M	PER	Calculated based on annual flow rate. Analysis is ISO accrediated	6.38	6.38	0.0	0.0
314	Fats, Oils and Greases	M	PER	Calculated based on annual flow rate. Analysis is ISO accrediated	0.14	0.14	0.0	0.0
240	Suspended Solids	M	PER	Calculated based on annual flow rate. Analysis is ISO accrediated	1.83	1.83	0.0	0.0
308	Detergents (as MBAS)	M	PER	Calculated based on annual flow rate. Analysis is ISO accrediated	1.68	1.68	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 Link to previous years emissions data | PRTR# : W0039 | Facility Name : Nurendale (Ballymount) | Filename : W0039_2013.xls | Return Year : 2013 | 25/04/2014 15:06

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			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
					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)

RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			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
					0.0	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

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 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)
						W/M	Method Used					
Within the Country	17 01 07	No	26.22	mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	R10	M	Weighed	Offsite in Ireland	Murphy Environmental,W0129-01	Hollywood Great,Naga Head,The Neal,Co. Dublin,Ireland		
Within the Country	17 05 04	No	2001.06	soil and stones other than those mentioned in 17 05 03	R10	M	Weighed	Offsite in Ireland	Behan Land Restoration ltd,W0247-01	Blackhall,Punchestown,Naas ,Co. Kildare,Ireland		
Within the Country	17 05 04	No	0.0	soil and stones other than those mentioned in 17 05 03	R12	M	Weighed	Offsite in Ireland	Panda Beauparc,W0140-03	Beauparc Business Park,Navan,Co. Meath, Ireland		
Within the Country	17 09 04	No	0.0	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R12	M	Weighed	Offsite in Ireland	Panda Beauparc,W0140-03	Beauparc Business Park,Navan,Co. Meath, Ireland		
Within the Country	19 12 02	No	96.42	ferrous metal	R12	M	Weighed	Offsite in Ireland	Wilton Waste Recycling Ltd,WFP-CN-10-0005-01(1)	Kilfagh,Crossarlough,Ballyja meaduff,Co. Cavan,Ireland		
Within the Country	19 12 07	No	1050.94	wood other than that mentioned in 19 12 06	R12	M	Weighed	Offsite in Ireland	Nurendale,W0140-03	Beauparc Business Park,Navan,Co. Meath, Ireland		
Within the Country	19 12 07	No	324.42	wood other than that mentioned in 19 12 06	R12	M	Weighed	Offsite in Ireland	Clonmel Waste Disposal,WFP-TS-11-0001-01	Lawlesstown, Clonmel,Co. Tipperary, Ireland		
Within the Country	19 12 09	No	21417.47	minerals (for example sand, stones)	R12	M	Weighed	Offsite in Ireland	Arthurstown Landfill,W0004	Kill,Co. Kildare, , , Ireland		
Within the Country	19 12 10	No	6.9	combustible waste (refuse derived fuel)	R12	M	Weighed	Offsite in Ireland	Nurendale,W0140-03	Beauparc Business Park,Navan,Co. Meath, Ireland		
Within the Country	19 12 12	No	41055.66	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	Nurendale,W0140-03	Beauparc Business Park,Navan,Co. Meath, Ireland		
Within the Country	19 12 12	No	1496.04	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	Nurendale,W0261-01	Cappagh Road,Finglas,Dublin 11, , Ireland		
Within the Country	19 12 12	No	0.0	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	Midland Waste,W0131	Navan,Co. Meath, , , Ireland		
Within the Country	19 12 12	No	0.0	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	Colgen,W0208	Ballymount,Dublin 22, , , Ireland		
Within the Country	20 01 08	No	7553.04	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Acorn Recycling,W0249-01	Littleton,Co. Tipperary, , , Ireland		
Within the Country	20 01 08	No	6436.04	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Milltown Composting ,W0270-01	Milltownmore ,Fethard ,Co Tipperary , , Ireland		
Within the Country	20 01 08	No	6544.79	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	O'Tooles Composting ,WFP-CW-10-0009-01	Ballintrane , Fenagh ,Co Carlow , , Ireland		
Within the Country	20 01 08	No	2669.12	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Natural World Products,NI 022050	55 Cargacloughter Road,Keady,Co. Armagh,BT60 3RA,United Kingdom		
Within the Country	20 01 08	No	2675.54	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Bord na Mona, ,W0201-03	Drehid Landfill , Carbury ,Co Kildare , , Ireland		
Within the Country	20 01 39	No	21.1	wood other than that mentioned in 20 01 37	R12	M	Weighed	Offsite in Ireland	Clonmel Waste Disposal,WFP-TS-11-0001-01	Lawlesstown, Clonmel,Co. Tipperary, , Ireland		
Within the Country	20 03 01	No	0.0	Dry Recyclables	R12	M	Weighed	Offsite in Ireland	Killarney Waste Disposal ,W2217-01	Killarney ,Co Kerry , , , Ireland		
Within the Country	20 03 01	No	0.0	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Greyhound Recycling & Recovery,W0205-01	Craig Avenue, Clondalkin Industrial Estate,Clondalkin ,Dublin 22,Ireland		
Within the Country	20 03 01	No	0.0	Dry Recyclables	R12	M	Weighed	Offsite in Ireland	Dillon Recycling,WFP-KY-10-001	Tralee,Kerry, , , Ireland		
Within the Country	20 03 01	No	0.0	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Fingall Co Co , ,W0009-03	Ballealy Landfill , Lusk ,Co Dublin, , Ireland		
Within the Country	20 03 01	No	297.26	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Bord na Mona, ,W0201-03	Drehid Landfill , Carbury ,Co Kildare , , Ireland		
Within the Country	20 03 01	No	0.0	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Greenstar Holdings Limited,W0165-02	Ballymagnan,Coolbeg and Kilcandra,Co. Wicklow , , Ireland		
Within the Country	20 03 01	No	0.0	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Greenstar Holdings Limited,W0146-01	Knockharley,Kentstown,Co. Meath, Ireland		
Within the Country	20 03 01	No	5805.01	mixed municipal waste	D10	M	Weighed	Offsite in Ireland	Indaver WMF ,W0167-02	Carlanstown , Duleek ,Co Meath , , Ireland		
Within the Country	20 03 01	No	6996.04	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Louth Co Co ,W0060-02	Whitetiver Landfill ,Dunleer ,Co Louth , , Ireland		
Within the Country	20 03 01	No	5.12	Dry Recyclables	R12	M	Weighed	Offsite in Ireland	Dublin City Council MRF,W0230-02	Merrywell Business Park,Ballymount,Dublin 22, , Ireland		
Within the Country	20 03 01	No	0.0	mixed municipal waste	R12	M	Weighed	Offsite in Ireland	Midland Waste,W0131	Navan,Co. Meath, , , Ireland		
Within the Country	20 03 01	No	0.0	mixed municipal waste	R12	M	Weighed	Offsite in Ireland	Milltown Composting ,W0270-01	Milltownmore ,Fethard ,Co Tipperary , , Ireland		
Within the Country	20 03 01	No	0.0	mixed municipal waste	R12	M	Weighed	Offsite in Ireland	O'Tooles Composting ,WFP-CW-10-0009-01	Ballintrane , Fenagh ,Co Carlow , , Ireland		
Within the Country	17 08 02	No	0.32	gypsum-based construction materials other than those mentioned in 17 08 01	R12	M	Weighed	Offsite in Ireland	Nurendale,W0261-01	Cappagh Road,Finglas,Dublin 11, , Ireland		
Within the Country	19 12 12	No	21.22	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	SDCC Sailing Station,W0003-00	Ballymount Road,Walkinstown,Dublin 12, , Ireland		
Within the Country	20 01 02	No	654.96	glass	R12	M	Weighed	Offsite in Ireland	Agnall,IreAg117/12	Unit 9 Rosefield,50 Rosemount Business Park,Ballycoolin,Dublin 11,Ireland		
Within the Country	20 01 36	No	2.6	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R12	M	Weighed	Offsite in Ireland	KMK Metals,W0113-00	Cappincur Industrial Estate,Daingean Road,Tullamore,Co. Offaly,Ireland		
Within the Country	20 01 39	No	34.0	plastics	R12	M	Weighed	Offsite in Ireland	Irish Packaging Recycling,W0263-01	Lower Ballymount Road,Walkinstown,Dublin 12, , Ireland		
Within the Country	20 02 01	No	149.02	biodegradable waste	R3	M	Weighed	Offsite in Ireland	Bord na Mona,W0199-01	Kilberry,Athy,Co. Kildare, , Ireland		
Within the Country	20 02 01	No	32.44	biodegradable waste	R12	M	Weighed	Offsite in Ireland	Nurendale,W0261-01	Cappagh Road,Finglas,Dublin 11, , Ireland		
Within the Country	20 02 01	No	19.92	biodegradable waste	R3	M	Weighed	Offsite in Ireland	Enrich,WFP-MH-06-0004-02	Lanch Hill Stud,Newtownmalhgarley,Kilc ock,Co. Meath,Ireland		
Within the Country	20 03 01	No	6000.04	Dry waste	R12	M	Weighed	Offsite in Ireland	Nurendale,W0140-03	Beauparc Business Park,Navan,Co. Meath, Ireland		
Within the Country	20 03 01	No	16086.14	mixed municipal waste	R12	M	Weighed	Offsite in Ireland	SDCC Sailing Station,W0003-00	Ballymount Road,Walkinstown,Dublin 12, , Ireland		

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