OXIGEN ENVIRONMENTAL

Annual Environmental Report 2012

W0152-03

Waste Transfer Station
At

Robinhood Industrial Estate,
Robinhood Road
Ballymount
Dublin 22

PREPARED BY OXIGEN ENVIRONMENTAL

MARCH 2013

Contents

1. INTRODUCTION

1.0 Introduction

Oxigen Environmental Limited holds EPA Waste Licence Register Number W0152-03 to operate a Waste Transfer Station at the Robinhood Industrial Estate, Robinhood Road, Ballymount, Dublin 22. In accordance with the requirements of Condition 11.9 of the Waste Licence, an Annual Environmental Report (AER) for the facility must be submitted to the Environmental Protection Agency (EPA).

This AER covers the reporting period from the 1st of January 2012 to the 31st of December 2012.

This facility is located at:

Oxigen Environmental Ltd.,
Robinhood Industrial Estate,
Robinhood Road,
Ballymount,
Dublin 22.

Tel: 01 4263118
Fax: 01 4567192

2. FACILITY LOCATION, DESCRIPTION AND WASTE ACTIVITIES

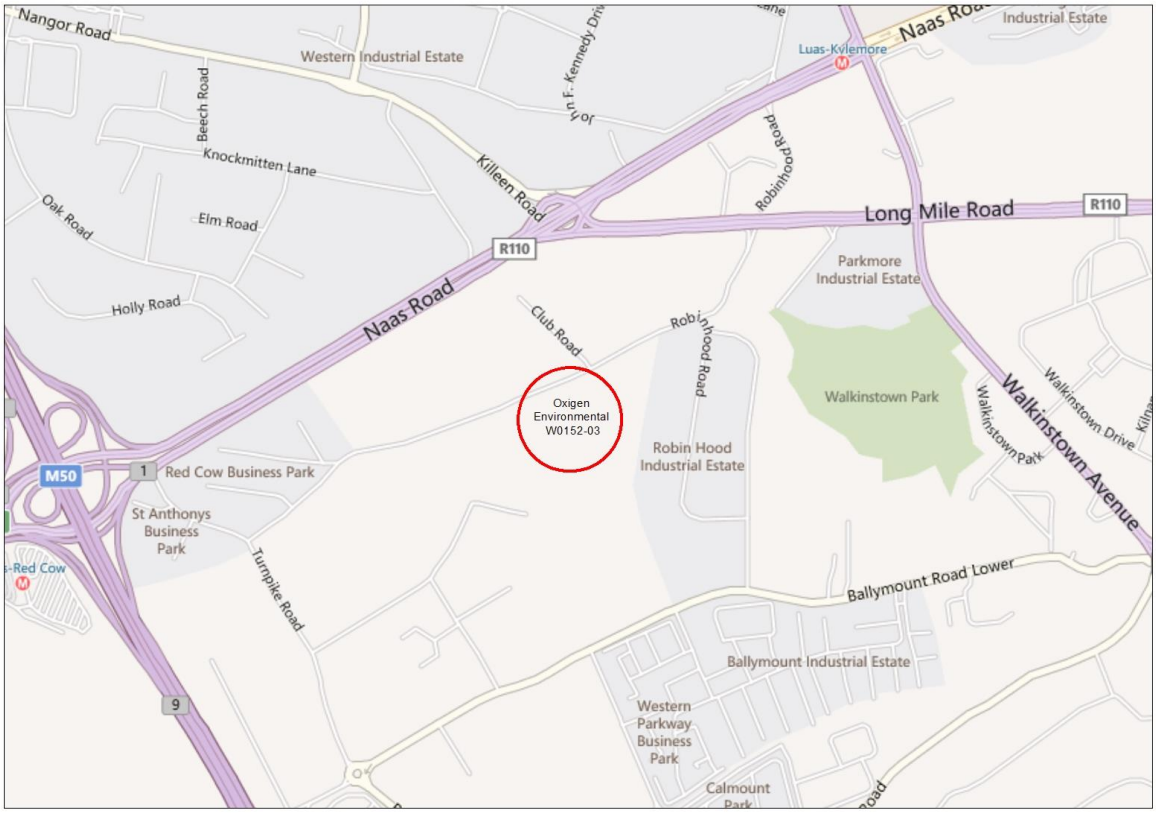
2.0 Facility Location

This facility is located at:

Oxigen Environmental Ltd.,
Robinhood Industrial Estate,
Robinhood Road,
Ballymount,
Dublin 22. Tel: 01 4263118 Fax: 01 4567192

The Waste Transfer Station is located within an industrial area. The facility is surrounded by warehouses and industrial businesses. The Robinhood Road is located at the northern boundary of the site.

Figure2.1. Location Map of Oxigen Environmental Ltd., Robinhood.



Open Street Map 2012

2.1 Description of Operations

Waste handling activities at the site in 2012 consisted of the acceptance and bulking up of municipal solid waste preceding transfer to landfill. All the waste that was destined for Arthurstown Landfill (W0004-03) was baled prior to transfer.

2.2 Process Operations

The licensed waste activities, permitted under the Third Schedule of the Waste Management Acts 1996 to 2003, in the Waste Licence W0152-3 are as follows:

Third Schedule, Class 11	**Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.** This activity is limited to bulking and transfer of waste.
Third Schedule, Class 12	**Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.** This activity is limited to the transfer and reloading of waste.
Third 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.** This activity is limited to storage prior to bulking and transfer or waste.

All the waste that enters the facility is recorded on arrival using the Genesys software system. The vehicle is then directed to the tipping area inside the shed where the load is inspected. Any non-conforming material such as recyclables or large bulky items are segregated out from the pile, reloaded into a skip and transferred to the Oxigen Ballymount Facility (W0208-01) for recovery.

3. QUANTITY AND COMPOSITION OF WASTE RECOVERED, RECEIVED AND DISPOSED OF DURING THE REPORTING YEAR 2012

3.0 Quantity and Composition of Waste Recovered, Received and Disposed of during the Reporting Year 2012

3.1 Waste received at the facility consisted of household and commercial municipal solid waste, food waste and small quantity of plastic. This material was either baled for transfer to landfill or temporarily stored prior to transfer for recycling or recovery. The waste received at Robinhood during the reporting period was recorded in kgs. The breakdown of quantities received as per each EWC type is listed in Table 3.1.1.

Table 3.1.1 Tonnage of Waste Received by Material Type

Waste Type	EWC Code	Weight (Kg)
MIXED MUNCIPAL WASTE (PROCESSED)	19 12 12	4,320
MIXED MUNICIPAL WASTE	20 03 01	56,783,960
ORGANIC FINES	19 12 12	2,115,980
Total		**58,904,260**

3.2 All waste transferred from the Oxigen Robinhood Facility was transferred to EPA approved permitted or licensed facilities. The majority of waste removed from the facility was municipal waste which was transferred to various licenced Landfill.. Other waste consigned was sent for further recovery and waste to energy treatment plants.

Table 3.2.1 Tonnage of Waste Removed from the facility by Destination and Material

Waste Type	EWC Code	Weight (kg)	Name of Facility	Facility
MSW processed	19 12 12	1,588,400	Drehid Waste Management Facility, Carbury, Co. Kildare. W0203-03	Landfill
MSW processed	19 12 12	23,866,000	Ballynagran Landfill, W165-02	Landfill
Organic Fines	19 12 12	4,346,220	Enrich Environmental Ltd., Larch hill Stud, Kilcock, Co. Meath. WMP2004/57	Recovery
MSW processed	19 12 12	250,280	Enrich Environmental Ltd., Kilcock, Co. Meath. WMP2004/57	Waste to Energy
MSW processed	19 12 12	1,605,000	Indaver, Carranstown, Duleek, Co Meath W0167-02	Waste to Energy
MSW processed	19 12 12	24,461,420	Knockharley Landfill, Co Meath. W0146-02	Landfill
MSW processed	19 12 12	3,018,860	Rampere Landfill, Baltinglass, Co Wicklow W066-03.	Landfill
Total		**59,136,180**		

4. EMISSIONS FROM THE FACILITY

4. Emissions from the Facility

4.1 Environmental monitoring results for the reporting period are outlined in the following sections. The results have been summarised in the tables below and the original monitoring reports are available on site. The sampling points for the environmental monitoring are unchanged and the results show that there is a high level of compliance with the standards set in the licence. An environmental monitoring results summary is also presented in the 2012 PRTR Returns Worksheet.

Tables 4.1.1 and 4.1.2 Monthly Foul Water Results 2012

Parameter	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temperature	*C	15.4	16.2	17.4	16.2	20.1	18.7	22.4	25.4	18.7	20.4	18.8	19.38
pH	pH Units	7.01	7.6	7.82	7.5	7.26	7.31	7.26	6.22	6.12	6.26	7.094	6.978
BOD	mg/l	20	143	216	183	67	25	40	420	153	1613	160	218
COD	mg/l	60	282	300	295	133	53	56	420	346	2419	156	102
Total Suspended Solids	mg/l	118	69	70	39	30	416	181	284	136	920	46	62
Oils, Fats & Grease	mg/l	5	8	11	16	5	2	1	13	2	13	10	8
Mineral Oils	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Detergents	mg/l	0.024	0.032	0.046	0.051	0.021	0.018	0.034	0.056	0.027	0.041	0.0383	0.038

Parameter	Unit	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Sulphates (as SO4)	mg/l	105.4	181.4	543.2	69.7	49.9	57.8	32.1	7.3	32.6	263	51.3	62.8
Flow Rate	m3/hr	0.16	0.23	0.19	n/a	0.14	0.23	0.19	0.16	0.21	n/a	0.1933	0.18

4.2 Schedule B.2 and C.2.2 of Waste Licence W0152-03 requires that emissions to surface water are analysed on the monthly basis. The samples are analysed for Biological Oxygen Demand, Suspended Solids, Ammonia and Mineral Oils. The results are presented below. TSW1 is located at a border of the facility and the samples that are analysed at this point are representative of what came onto the site. TSW2 is located at the far end of the facility, the water that is sampled at this point flows through the site and the interceptor before arriving at TSW2. Therefore, in order to get an accurate reading for emissions contributed by Oxigen, we have taken the difference between the emissions at TSW1 and TSW2.

Table 4.2.1 Monthly Surface Water Results 2012

Parameters	Units	Monitoring Point	Jan	Feb	March	April	May	June	July	August	September	October	November	December
BOD	mg/l	TSW1	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
		TSW2	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
		Increase/Decrease	0	0	0	0	0	0	0	0	0	0	0	0
Suspended Solids	mg/l	TSW1	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
		TSW2	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
		Increase/Decrease	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia (as N)	mg/l	TSW1	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
		TSW2	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
		Increase/Decrease	0	0	0	0	0	0	0	0	0	0	0	0
Mineral Oils	mg/l	TSW1	Dry	Dry	0	0	0	0	Dry	Dry	Dry	Dry	Dry	Dry
		TSW2	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
		Increase/Decrease	0	0	0	0	0	0	0	0	0	0	0	0

4.3 Schedule B.1 and C.6 of Waste Licence W0152-03 requires that dust emissions are monitored on a quarterly basis. The results are displayed below.

Table 4.3.1 Quarterly Dust Results 2012

Monitoring Station	Units	ELV	Aug	Sept	Oct
D1	mg/m2/day	350	81.5	118.3	71.8
D2	mg/m2/day	350	56.8	155.6	108.1

4.4 Schedule B.1 and C.1.2 of Waste Licence W0152-03 requires that certain emissions to air are monitored. Ammonia, Hydrogen Sulphide and Mercaptans are monitored on the monthly basis while amines, odour units and particulates and monitored bi-annually. The results are displayed below.

Table 4.4.1 Monthly Air Emissions Results 2012

Monitoring Point	Parameter	Jan	Feb	March	April	May	June	July	August	Sept	Oct	Nov	Dec
Emmission Point A	Mercaptan	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Hydrogen Sulphide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ammonia	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Emmission Point B	Mercaptan	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Hydrogen Sulphide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ammonia	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Emmission Point C	Mercaptan	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Hydrogen Sulphide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ammonia	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Table 4.4.2 Particulates Results 2012

	May					September				
Monitoring Point	**Sampling Times**		**Particulates Conc µg /m3**			**Sampling Times**		**Particulates Conc µg /m3**		
	Start	Finish	Average	Min	Max	Start	Finish	Average	Min	Max
A1	9.00am	10.00am	15	2	64	9.20am	10.20am	22	2	96
A2	10.15am	11.15am	26	2	120	10.45am	11.45am	30	2	127
A3	11.25am	12.25pm	28	1	101	12.00pm	13.00pm	28	1	99

There are no emissions limit values for particulates specified in the Licence for the facility. Particulate levels are low and are at the background concentrations for the area.

Table 4.4.3 Odour Results 2012

Monitoring Point	Average Odour Unit	May	September
A1	ou/m3	1	2
A2	ou/m3	1	2
A3	ou/m3	2	1

There are no emissions limit values for odour units specified in the Licence. The odour units are low at all locations. Generally at 5 ou/m^3 people become consciously aware of the presence of an odour and levels greater than this are strong enough to lead to complaints being made.

4.5 Schedule B.4 and C.5 of Waste Licence W0152-03 requires that noise monitoring is carried out on an annual basis. The annual noise monitoring for 2012 was carried out on the 7th Feb 2012. The locations of the monitoring points are mapped in 4.1 and the results of the noise monitoring are detailed below.

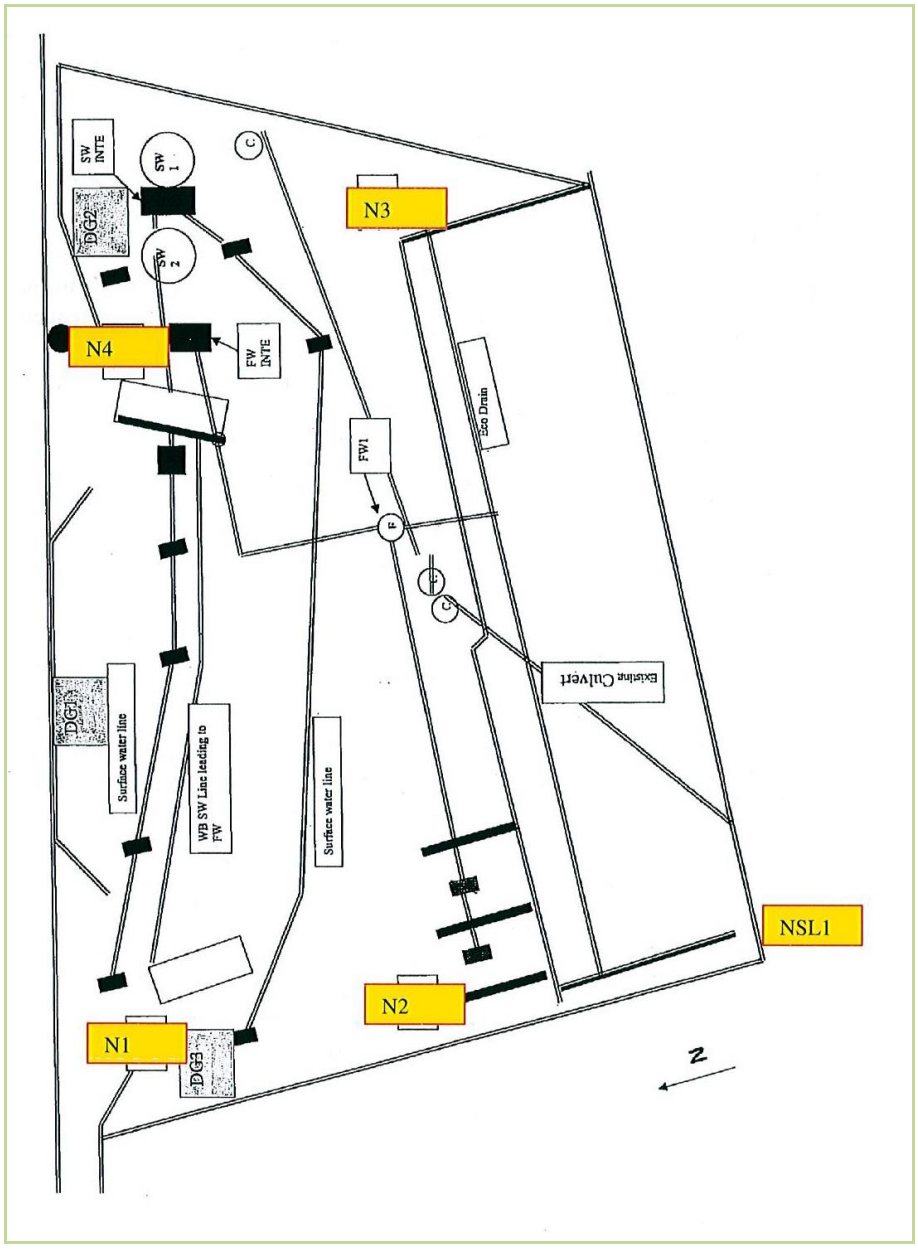
Table 4.5.1 Annual Noise Results 2012

Location	Sampling Interval	Duration (mins)	L_{AEQ}	L_{A10}	L_{A90}	Wind Speed m/s	Sampling Notes
Day Time Measurment							
N1	1206-1306hrs	60	67.8	70.6	59.3	0.4	Traffic passing on the road brings levels up to 78-80dB. Yard activity can be heard ~55dB
N2	1310-1410hrs	60	62.1	64	57.8	0.4	Traffic on road 60-65dB. Compressor being used intermittently ~75dB
N3	1103-1203hrs	60	65.8	67.2	64.6	0.5	Local road noise 68dB. Noise from within site ~50-60dB.
N4	0959-1059hrs	60	73.8	77.9	60.7	1.5	Plant can be heard at between 50-62dB. Traffic from road is main noise source reaching up to 95dB.
NSL1	1419-1519hrs	60	58.1	60.4	52.7	0.9	Traffic reaches up to 55dB. Noise attributable to Oxigen activity ~52dB.

The noise limits for the operation are laid out in the Licence. The daytime limit is L_{Aeq} <55dB over 30 minutes and the night time limit is L_{Aeq} <45dB over 30 minutes.

Traffic movements not associated with the operation were the main contributing factor to the L_{Aeq} levels. The background noise levels excluding the impact from traffic at up to 53.0 dB is a better indication of noise emanating from the operation. Plant activity was below 55 dB at all locations. Night time noise levels at NSL1 are greater than the night time limit of 45dB due to passing traffic. The plant is closed at night and so makes no noise contribution.

Fig 4.1 Monitoring Locations



5. RESOURCE AND ENERGY CONSUMPTION SUMMARY

5.0 Resource and Energy Consumption Summary

Gas oil and Electricity are the two forms of energy used on site. This energy is used to power machinery such as the baler and to fuel vehicles such as the front end loader and shunter. Electricity is also used in the day to day running of the canteen and office.

Table 5.1 Summary Table of Resource Consumption for the Reporting Period

Site Energy Usage 2012	Quantity	Units
Gasoil	44,751	Litres
Electricity	338,635	kWh
Water	517,677	Litres

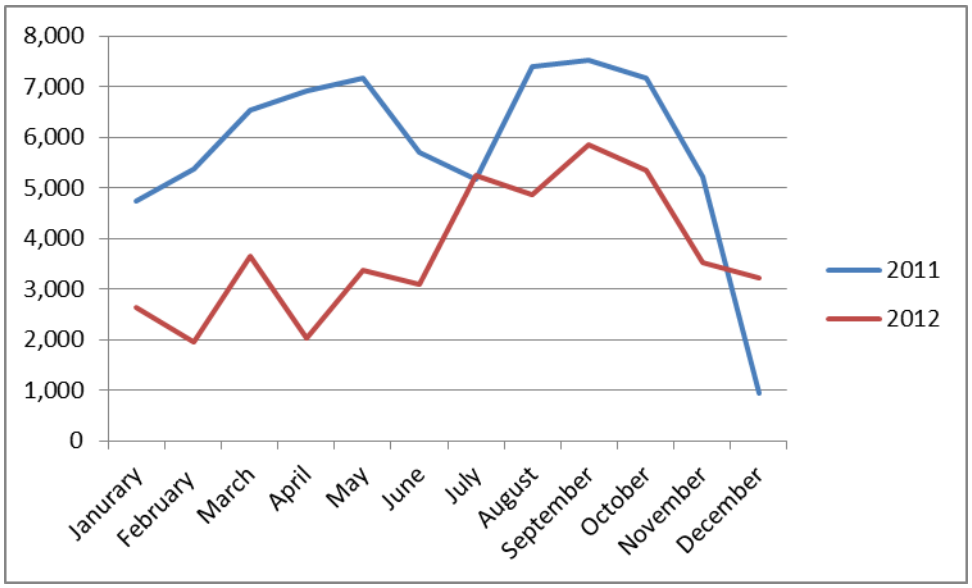
5.2 Diesel Consumption

The diesel consumption at the facility increased slightly in 2012 when compared to the previous year. Table 5.2.1 indicates the total diesel used each month in 2012.. The quantity used in 2012 was 44,751 litres compared 69,850 litres used in 2011. This was largely due to a decrease in tonnage accepted on. Figure 5.2.1 shows the diesel usage trend over the two year period by month.

Table 5.2 1 Total Diesel used in 2012

	Litres Used
January	2638
February	1945
March	3657
April	2019
May	3359
June	3104
July	5247
August	4854
September	5854
October	5342
November	3521
December	3211
Total	44,751

Figure 5.2.1 Diesel Consumption 2011 – 2012



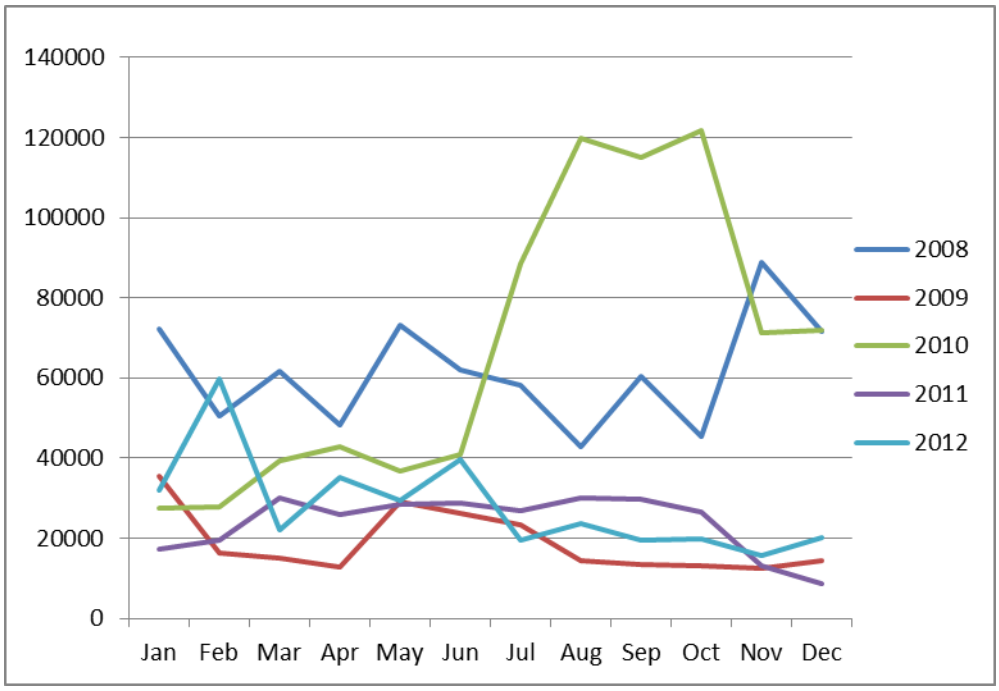
5.3 Electricity Consumption

The electricity consumption at the facility decreased slightly in 2012 when compared to pervious years. This was largely due to the decommissioning of the baler. Figure 5.3.1 shows the total energy consumption in 2012 when compared to 2010. Figure 5.3.2 shows total consumption as a four year trend.

Figure 5.3.1 Electricity Usage 2012

	KwH
January	32146
February	59778
March	22226
April	35130
May	29362
June	39518
July	19612
Aug	23677
Sept	19560
Oct	19782
Nov	15725
Dec	20107

Fig 5.3.2 Electricity Usage Trend 2008 – 2012



5.4 Energy Efficiency Audit Report Summary

An audit of lighting was carried out in 2012. The lighting in the processing sheds were upgraded during 2012. The upgrade of the lighting consisted of replacement of existing lamp fitting with LED lamps to achieve a reduction in power consumption. The replacement of the existing lamps with LED's is thought to achieve a potential saving of at least 68%. The projected annual energy saving amounts to 329,167 kWh which is a 68% reduction. Using Irelands average emissions from electricity of 0.58 kgs of CO2 per kWh.

6. PROCEDURES DEVELOPED IN 2010

6.1 Procedures Developed in 2012

Environmental Management System - Recertification

In accordance with the conditions of licence no. W0152-03, and in order to achieve the objectives and targets set out in the Oxigen Robinhood Facility Environmental Management System, procedures were developed by Oxigen in 2006. In order to improve the Environmental Management System (EMS) and to achieve ISO 14001 Standard Certification, the EMS was reviewed and amended in 2008. In May 2009, Oxigen was independently assessed and certified to the ISO14001 Standard by Certification Europe. Some amendments were made to the EMS throughout the years and in May 2012, the facility was re-certification with the ISO 14001 standard. All the procedures are available for inspection at the facility.

7. PROPOSED DEVELOPMENT/INFRASTRUCTURAL WORKS 2012

7.1 Proposed Development/Infrastructural Works 2013

There are currently no Specified Engineering Works applied for in 2012.

Any proposed development of the facility will be submitted in writing to the Agency during the course of the year as required.

8. ENVIRONMENTAL MANAGEMENT PROGRAM (EMP)

8.1 Environmental Management Program (EMP)

As part of the overall EMS at the facility, an Environmental Management Plan is in place in order to achieve the objectives and targets set out for the coming year and to ensure the facility is operating to high environmental standards.

8.2 Report on Previous Year

A summary report for the EMP that was submitted in the AER for 2010 is discussed in this section. The objectives and targets for 2012 were as follows

8.2 Objectives and Targets for the Coming Year 2012

W0152-03 2013

No.	Objective	Applicable Environmental Aspect	Method of Achieving Target	Responsibility	Completion Date
1	To reduce the risk of odour nuisance from the Robinhood site.	Odour	**1.1:** To reduce door opening times and outgoing traffic from the facility but using loading bay. Loading bay wiill be used with the commencement of RDF production. **1.2:** To install virgin carbon for the filter of the odour abatement system	The Facility Manager, Operations Manager and Environmental Compliance Officer.	22/06/2013 01/03/2013
2	To increase recovery rate from facility	Natural Resources	**2.1:** To commence processing and production of RFD witch will reduce the necessary of vehicles to load inside the shed. All vehicles will be loaded though a loading bay with will result in less traffic, road result, and risk of odour complaints.	The Facility Manager and Operations Manager	01/10/2013
3	To increase environmental awareness/environmental education	Natural Resources	**3.1:** To commence processing and production of RFD witch will reduce the necessary of vehicles to load inside the shed. All vehicles will be loaded though a loading bay with will result in less traffic, road result, and risk of odour complaints.	The Facility Manager, Operations Manager and Environmetnal Complaince Officer are responsible for the achievement of this target	01/10/2013
4	Increase Environmental Performance on Site	General Environmental Performance	**4.1** Research and identifiy training needs of Key members of staff **4.2** . Bespoke training to be carried out with key membesr of staff to increase environmental awareness on site. All training to be approved by the EPA and in complaince with licence requirements	Senior Mangement / Environmental Complaince Officer	01/05/2013

			4.3 Environmental Education of our customer base and increase awareness with regard to recovery.		
5	Reduce risk of discharge to water	Discharge to water	**5.1**. Inspection of the existing hardstand within and around the processing building	Operations Manager	01/06/2013
			5.2. Works program established to remediate any issues with concrete hardstand	Eng/Development Team/Operations manager	01/06/2013

9. TANK AND PIPELINE TESTING AND INSPECTION REPORT

9.1 Tank and Pipeline testing and inspection report

9.2 A survey of the complete drainage system at the facility was carried out by P.C. Drain Cleaning Ltd., on the 25th June 2008 and all drains were found to be in good working order. Details of the drainage survey including maps and reports were submitted to the Agency on the 23rd July 2008. The next drainage survey is to take place in Summer 2013.

9.3 Portable bunds are maintained on site for the storage of hydraulic oil, engine oil, waste oil, diesel, coolants and waste chemicals. These bunds have all been certified for integrity by the suppliers for a period of 3 years from the date of purchase.

10 .COMPLAINTS SUMMARY & REPORTED INCIDENTS

10.1 Complaints Summary & Reported Incidents

All the issues relating to the complaints and incidents are summarised below were rectified and closed out. The detailed complaints register is available for inspection at the facility.

a. Complaints Summary

Number	Date	Communication Method	Issue
1	16.01.12	Fax from EPA	Odour
2	16.01.12	Fax from EPA	Odour
3	30.01.12	Fax from EPA	Odour
4	02.02.12	Fax from EPA	Odour
5	02.02.12	Fax from EPA	Odour
6	07.02.12	Fax from EPA	Odour
7	02.03.12	Fax from EPA	Odour
8	22.03.12	Fax from EPA	Odour
9	26.03.12	Email direct from complainant	Odour
10	14.08.12	Email direct from complainant	Odour

b. Reported Incidents Summary

There were no environmental incidents reported to the EPA during 2012.

11. REVIEW OF NUISANCE CONTROLS

11.0 Review of Nuisance Controls

Eastern Pest Control (EPC) carried out pest control at the facility. During the summer months EPC sprayed the inside of the shed with a pesticide fog to control fly activity. This was carried out at regular intervals throughout 2012. EPC made a total of 48 visits to the site during the year to monitor the situation and put in place any control measures that were necessary.

Rodent activity at the facility is also controlled by EPC, bait boxes are placed at key locations around the site. There were 8 visits to the site in total in 2012. There were no sightings of rodents at the facility during 2012.

Daily site inspections are carried out by the Facility Manager/Compliance Officer which highlights any nuisances on site such as litter, pests, noise, birds, flies, odour or dust. Should any such nuisances be recorded, then appropriate measures are undertaken.

Odour is the most significant aspect at the Robinhood facility. In 2012, the Carbon was replaced in the odour abatement system in March 2012. Oxigen Environmental are working closely with Odour Monitoring Ireland to ensure that operations at the Robinhood facility does not give rise to odour nuisance.

12. FINANCIAL PROVISIONS

12. Financial Provisions

At present Oxigen Environmental have sufficient turnover and company assets to offset environmental liabilities in the event that they may be incurred during the course of the Facility Operations or in the event that the facility is closed. This will include the covering of costs associated with abatement installation, control & monitoring; closure & remediation of the site; clean-up following a plausible accident/incident and/or long-term aftercare for residual environmental liabilities. Oxigen Environmental has Pollution Cover of up to €13M with Brit Insurance, Policy No: A2602620/35136

13 PROGRAMME FOR PUBLIC INFORMATION

13 Programme for Public Information

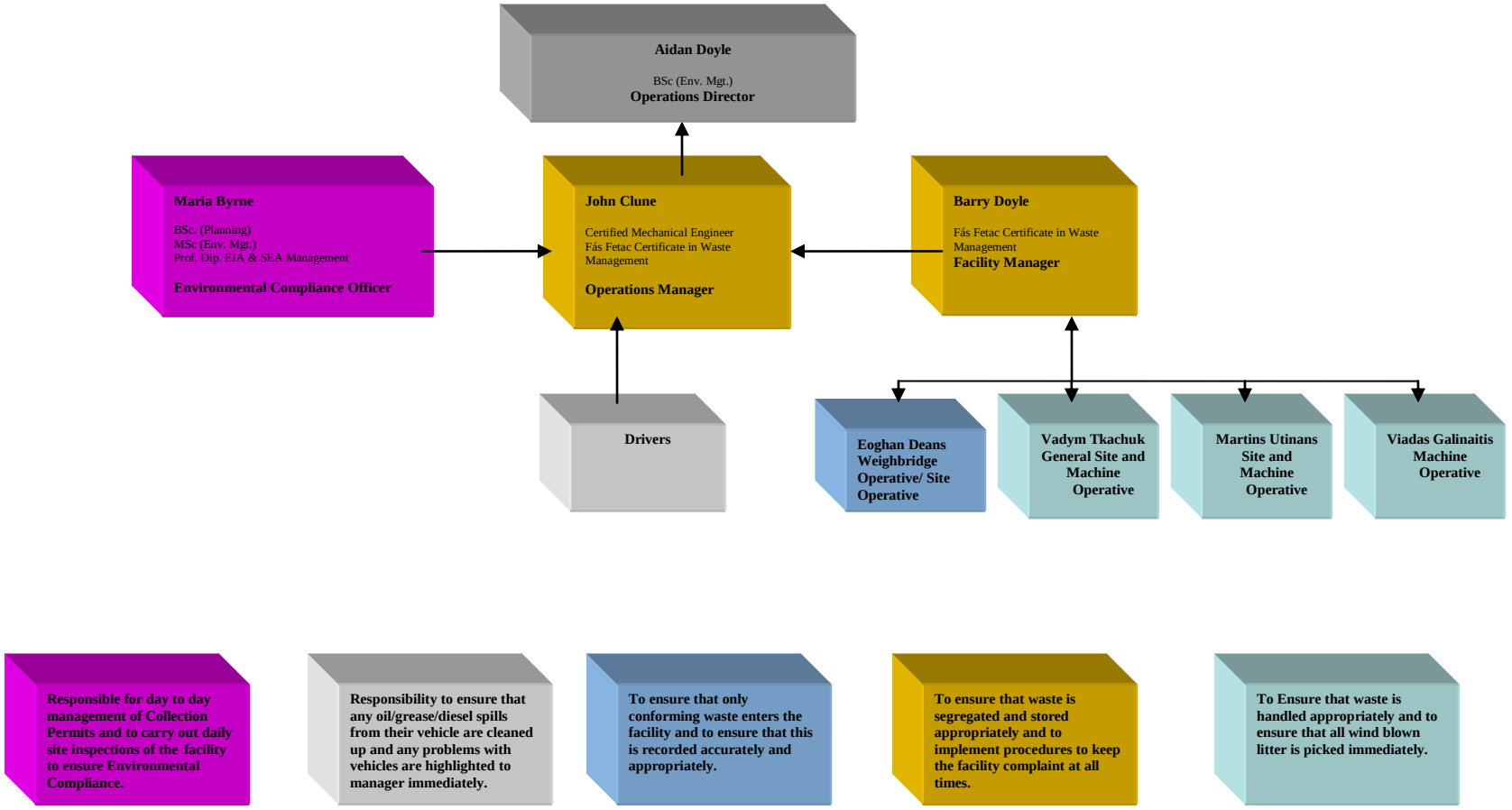
A program for public information is in place at the facility. During the reporting period there were no requests from the public to inspect any of the records and files listed in the submission.

The lists of documents available for inspection in the Communication Folder are as follows:

- Waste Licence W0152-01
- Environmental Policy
- Unacceptable Waste List
- Pest/Vermin Control Records
- Waste Licences/Permits of Facilities
- Environmental Monitoring Results for the current year
- Complaints Register

Members of the public who wish to inspect these files may do so at any reasonable time by making an appointment either with the Facility Manager or Compliance Officer at the telephone number posted on the main facility entrance sign erected in accordance with Condition 2.2.2.7.

14. MANAGEMENT STRUCTURE


Aidan Doyle
BSc (Env. Mgt.)
Operations Director
Maria Byrne
BSc. (Planning)
MSc (Env. Mgt.)
Prof. Dip. EIA & SEA Management
Environmental Compliance Officer
John Clune
Certified Mechanical Engineer
Fás Fetac Certificate in Waste Management
Operations Manager
Barry Doyle
Fás Fetac Certificate in Waste Management
Facility Manager
Drivers
Eoghan Deans Weighbridge Operative/ Site Operative
Vadym Tkachuk General Site and Machine Operative
Martins Utinans Site and Machine Operative
Viadas Galinaitis Machine Operative
Responsible for day to day management of Collection Permits and to carry out daily site inspections of the facility to ensure Environmental Compliance.
Responsibility to ensure that any oil/grease/diesel spills from their vehicle are cleaned up and any problems with vehicles are highlighted to manager immediately.
To ensure that only conforming waste enters the facility and to ensure that this is recorded accurately and appropriately.
To ensure that waste is segregated and stored appropriately and to implement procedures to keep the facility complaint at all times.
To Ensure that waste is handled appropriately and to ensure that all wind blown litter is picked immediately.

Environmental Protection Agency

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.16

REFERENCE YEAR	2012

1. FACILITY IDENTIFICATION

Parent Company Name	Oxigen Environmental Limited
Facility Name	Oxigen Environmental Limited
PRTR Identification Number	W0152
Licence Number	W0152-03

Waste or IPPC Classes of Activity

No.	class_name
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.

Address 1	Robinhood Industrial Estate
Address 2	Robinhood Road
Address 3	Ballymount
Address 4	Dublin 22
	Dublin
Country	Ireland
Coordinates of Location	-6.35817 53.3189
River Basin District	IEEA
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Maria Byrne
AER Returns Contact Email Address	mabyrne@oxigne.ie
AER Returns Contact Position	Env Compliance Officer
AER Returns Contact Telephone Number	01 4263118
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	5
User Feedback/Comments	
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

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	
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) ?	

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

4.1 RELEASES TO AIR

Link to previous years emissions data

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs	
POLLUTANT		METHOD				
			Method Used			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year
					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				
			Method Used			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	Emission Point 2
210	**Dust**	M	ALT	Beregerhoff Guage	587.81	693.42

* 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: Oxigen Environmental Limited

Please enter summary data on the quantities of methane flared and / or utilised	**T (Total) kg/Year**	**M/C/E**	**Method Used**		**Facility Total Capacity m3 per hour**	
			Method Code	**Designation or Description**		
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	

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

QUANTITY		
T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
1281.23	0.0	0.0

4.2 RELEASES TO WATERS

Link to previous years emissions data

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should N

RELEASES TO WATERS						Please enter all quantities in this section in KGs
POLLUTANT						
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
			Method Code	Designation or Description		
					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						
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
			Method Code	Designation or Description		
					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						
Pollutant No.	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
			Method Code	Designation or Description		
238	**Ammonia (as N)**	E	ESTIMATE		0.32	0.32
303	BOD	E	ESTIMATE		136.79	136.79
240	Suspended Solids	E	ESTIMATE		405.12	405.12
324	Mineral oils	E	ESTIMATE		0.053	0.053

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

OT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

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				
			Method Used			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year
76	Total organic carbon (TOC) (as total C or COD/3)	M	ALT	APHA-5220-D	312.13	312.13

* 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				
			Method Used			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year
303	BOD	M	OTH	APHA-5210-B	658.66	658.66
306	COD	M	OTH	APHA-5220-D	936.41	936.41
308	Detergents (as MBAS)	M	OTH	APHA-5540-C	0.09	0.09
314	Fats, Oils and Greases	M	OTH	APHA-5520-B	19.0	19.0
240	Suspended Solids	M	OTH	APHA-2540B	294.46	294.46
324	**Mineral oils**	M	OTH	GC-FID	0.0	0.0

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

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

4.4 RELEASES TO LAND

Link to previous years emissions data

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
						M/C/E	Method Used			
Within the Country	19 12 12	No	4596.5	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Weighed	Offsite in Ireland	Enrich Environmental Ltd,WMP2004/57	Larch Hill Stud,Kilcock,Co. Meath,.,Ireland
Within the Country	19 12 12	No	1588.4	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility,W0203-03	Carbury,.,.,Co.Kildare,Ireland
Within the Country	19 12 12	No	23866.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Weighed	Offsite in Ireland	Ballynagran Landfill,W0165-01	Ballynagran ,Co. Wicklow,.,.,Ireland
Within the Country	19 12 12	No	24461.45	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Weighed	Offsite in Ireland	Knockharley Landfill,W0146-02	Navan,Co. Meath,.,.,Ireland
Within the Country	19 12 12	No	3018.86	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	M	Weighed	Offsite in Ireland	Rampere Landfill,W0066-03	Rampere ,Baltinglass,Co. Wicklow,.,Ireland
Within the Country	19 12 12	No	1605.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D10	M	Weighed	Offsite in Ireland	Indaver,W0167-02	Carranstown,Duleek,Co. Meath,.,ireland

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

Link to previous years waste data
Link to previous years waste summary data & percentage change

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)