


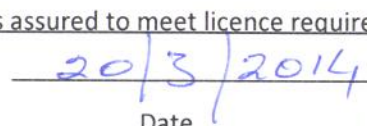
Facility Information Summary	
AER Reporting Year	2013
Licence Register Number	P0504-01
Name of site	Bord na Mona Mountdillon
Site Location	Mountdillon, Lanesboro, Co Longford
NACE Code	0892
Class/Classes of Activity	1.4
National Grid Reference (6E, 6 N)	E204720. N268880

A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year **and an overview of compliance with your licence listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.**

Activities on site can be divided into two components, firstly the milling, harrowing, ridging and harvesting of peat into stockpiles and secondly the transportation of that peat via an internal rail network to the Power Station and lorry outloading facilities. Due to the excellent weather experienced during the 2013 production season, there was more than a 3 fold increase in production achieved in 2012. Infrastructurally, there were bog development works at Corlana and Coolcraff bogs in Cuil na Gun. Works included ditching and levelling on an area of approximately 130 hectares and the construction of appropriately sized silt settlement ponds. There were 6 environmental complaints received during the reporting period all of which were reported to the Agency through ALDER. In relation to silt pond cleaning, 100% of ponds received two cleanings with some ponds receiving three. The site was 100% compliant in relation to quarterly grab and dust results. In relation to composite sampling there were two breaches of the ELV for suspended solids and four trigger level exceedences, two for Ammonia and two for COD. Silt pond capacity was increased by 9000 m3 during the reporting period. Decommissioning and Rehabilitation works are described in an attachment.

Declaration:

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

 Signature Group/Facility manager (or nominated, suitably qualified and experienced deputy)	 Date
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AIR-summary template

Lic No:

P0504-01

Year

2013

Answer all questions and complete all tables where relevant

- 1 Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If **you do not have** licenced emissions and **do not complete a solvent management plan** (table A4 and A5) you do not need to complete the tables

Additional information	
No	Fugitive emissions only

Periodic/Non-Continuous Monitoring

- 2 Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of Table A1 below
- 3 Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? [Basic air monitoring checklist](#) [AGN2](#)

No	
Yes	

Table A1: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		

Note 1: Volumetric flow shall be included as a reportable parameter

AIR-summary template	Lic No:	P0504-01	Year	2013
Continuous Monitoring				

4	Does your site carry out continuous air emissions monitoring?	No	
	If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)		
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	No	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	No	
7	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	No	

Table A2: Summary of average emissions -continuous monitoring

Emission reference no:	Parameter/ Substance	ELV in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
DM-01	Total Particulates	350mg/m2/day	84	Daily average < ELV	mg/m2/day	8036	160	0	0	
DM-02	Total Particulates	350mg/m2/day	84	Daily average < ELV	mg/m2/day	6384	107	0	0	
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					

note 1: Volumetric flow shall be included as a reportable parameter.

Table A3: Abatement system bypass reporting table

[Bypass protocol](#)

Date*	Duration** (hours)	Location	Reason for bypass	Impact magnitude	Corrective action

* this should include all dates that an abatement system bypass occurred

** an accurate record of time bypass beginning and end should be logged on site and maintained for future Agency inspections please refer to bypass protocol link

AIR-summary template		Lic No: P0504-01		Year: 2013			
Solvent use and management on site							
8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5					SELECT		
Table A4: Solvent Management Plan Summary Total VOC Emission limit value			Solvent regulations Please refer to linked solvent regulations to complete table 5 and 6				
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as % of solvent input	Total Emission Limit Value (ELV) in licence or any revision thereof	Compliance		
					SELECT		
					SELECT		
Table A5: Solvent Mass Balance summary							
	(I) Inputs (kg)	(O) Outputs (kg)					
Solvent	(I) Inputs (kg)	Organic solvent emission in waste	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g. by- onsite through	Total emission of Solvent to air (kg)
Total							

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)			Lic No:	P0504-01	Year	2013
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1 Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If **you do not have** licenced emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections

2 Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections

Additional information	
Yes	
Yes	Monthly COD analysis of yard runoff is attached in a separate document.

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licensed Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	

* trigger values may be agreed by the Agency outside of licence conditions

Table W2 Visual inspections-Please only enter details where contamination was observed.

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
			SELECT		
			SELECT		

Licensed Emissions to water and /or wastewater(sewer)-periodic monitoring (non-continuous)

3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below

Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas

4 require improvement in additional information box

[External /Internal](#)

[Lab Quality](#)

[checklist](#)

[Assessment of](#)

[results checklist](#)

No	Additional information
Yes	
	Surface water monitoring was carried out on a quarterly basis. The results of which are attached. Monthly COD yard runoff results are also attached.

Table W3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof ^{Note 2}	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT			

Note 1: Volumetric flow shall be included as a reportable parameter

Note 2: Where Emission Limit Values (ELV) do not apply to your licence please compare results against EQS for Surface water or relevant receptor quality standards

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)

Lic No:

P0504-01

Year

2013

Continuous monitoring

5 Does your site carry out continuous emissions to water/sewer monitoring?

Yes

Additional Information

If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)

6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table W4 below

Yes

Down time is primarily due to no flow/discharge, battery failure and or frozen pipes.

7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?

Yes

Annual calibration schedule and trouble shooting service

8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

No

Table W4: Summary of average emissions -continuous monitoring

Emission reference no:	Emission released to	Parameter/ Substance	ELV or trigger values in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission for current reporting year (kg)	% change +/- from previous reporting year	Monitoring Equipment downtime (hours)	Number of ELV exceedences in reporting year	Comments
SW62	Water	Suspended Solids	35	24 hour	All results < 1.5 times ELV, plus 8 from ten results must be < ELV	mg/L	5447.51	-38.86	3624	2	Down time primarily due to, no flow, Frozen pipes or battery failure
SW62	Water	Ammonia (as N)	1.42	Weekly		mg/L	173.03	132.23	216	NA	Down time primarily due to, no flow, Frozen pipes or battery failure
SW62	Water	Total phosphorus	NA	Weekly	NA	mg/L	9.68	-1.29	216	NA	Down time primarily due to, no flow, Frozen pipes or battery failure
SW62	Water	COD	100	Weekly	NA	mg/L	23600.7	122.82	216	NA	Down time primarily due to, no flow, Frozen pipes or battery failure
SW62	Water	volumetric flow	NA	24 hour	NA	m3/day	1374408808	-8.59	624	NA	Down time primarily due to, no flow, Frozen pipes or battery failure
SW62	Water	Total Dissolved Solids	NA	Weekly	NA	mg/L	119452.77	-28.91	216	NA	Down time primarily due to, no flow, Frozen pipes or battery failure

note 1: Volumetric flow shall be included as a reportable parameter.

Table W5: Abatement system bypass reporting table

Date	Duration (hours)	Location	Resultant emissions	Reason for bypass	Corrective action*	Was a report submitted to the EPA?	When was this report submitted?
						SELECT	

*Measures taken or proposed to reduce or limit bypass frequency

Bund/Pipeline testing template	Lic No:	P0504-01	Year	2013
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Bund testing

dropdown menu click to see options

Additional information

Are you required by your licence to undertake integrity testing on bunds and containment structures? If yes please fill out table B1 below listing all **new bunds and containment structures** on site, in addition to **all bunds which failed the integrity test-all bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period** (mobile bunds and chemstore included)

- 1
2 Please provide integrity testing frequency period
Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)
4 How many bunds are on site?
5 How many of these bunds have been tested within the required test schedule?
6 How many mobile bunds are on site?
7 Are the mobile bunds included in the bund test schedule?
8 How many of these mobile bunds have been tested within the required test schedule?
9 How many sumps on site are included in the integrity test schedule?
10 How many of these sumps are integrity tested within the test schedule?
Please list any sump integrity failures in table B1
11 Do all sumps and chambers have high level liquid alarms?
12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
13 Is the Fire Water Retention Pond included in your integrity test programme?

Yes	
Other (2 Yearly)	
Yes	
5	
5	
7	
No	
0	
0	
0	
NA	
NA	
NA	

Table B1: Summary details of bund /containment structure integrity test														
Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest (if in current reporting year)
	SELECT					SELECT			SELECT	SELECT		SELECT		
	SELECT					SELECT			SELECT	SELECT		SELECT		

* Capacity required should comply with 25% or 110% containment rule as detailed in your licence

Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?

16 Are channels/transfer systems to remote containment systems tested?

17 Are channels/transfer systems compliant in both integrity and available volume?

[bundings and storage guidelines](#)

SELECT	
SELECT	
SELECT	

Pipeline/underground structure testing

Are you required by your licence to undertake integrity testing* on underground structures e.g. pipelines or sumps etc? If yes please fill out table 2 below listing all 1 underground structures and pipelines on site **which failed the integrity test and all which have not been tested within the integrity test period as specified**

2 Please provide integrity testing frequency period

*please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

Yes	
Other (2 Yearly)	

Table B2: Summary details of pipeline/underground structures integrity test											
Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

Please use commentary for additional details not answered by tables/ questions above

Groundwater/Soil monitoring template	Lic No: P0504-01	Year 2013
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		Comments	
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	no	
2	Are you required to carry out soil monitoring as part of your licence requirements?	no	
3	Do you extract groundwater for use on site? If yes please specify use in comment section	yes	Domestic use only
4	Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below. Groundwater monitoring template	no	
5	Is the contamination related to operations at the facility (either current and/or historic)	NA	
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	NA	
7	Please specify the proposed time frame for the remediation strategy	NA	
8	Is there a licence condition to carry out/update ELRA for the site?	NA	
9	Has any type of risk assessment been carried out for the site?	NA	
10	Has a Conceptual Site Model been developed for the site?	NA	
11	Have potential receptors been identified on and off site?	NA	
12	Is there evidence that contamination is migrating offsite?	NA	

Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER

Please enter interpretation of data here

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
							SELECT			SELECT
							SELECT			SELECT

.+ where average indicates arithmetic mean

.++ maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
							SELECT			SELECT
							SELECT			SELECT

Groundwater/Soil monitoring template		Lic No:	P0504-01	Year	2013
<p>*please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA.</p>		Groundwater monitoring template			
<p>More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31)</p>		Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013).			
<p>**Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), If the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS)</p>		Groundwater Surface water EQS	Drinking water regulations GTV's	(private supply) standards	Drinking water (public supply) standards Interim Guideline Values (IGV)

Table 3: Soil results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit
							SELECT
							SELECT

Where additional detail is required please enter it here in 200 words or less

Environmental Liabilities template	Lic No:	P0504-01	Year	2013
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[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

		Commentary	
1	ELRA initial agreement status	Not a Licence Requirement	
2	ELRA review status	NA	
3	Amount of Financial Provision cover required as determined by the latest ELRA	NA	
4	Financial Provision for ELRA status	NA	
5	Financial Provision for ELRA - amount of cover	NA	
6	Financial Provision for ELRA - type	NA	
7	Financial provision for ELRA expiry date	NA	
8	Closure plan initial agreement status	NA	Internal Budget Provision
9	Closure plan review status	NA	Internal Budget Provision
10	Financial Provision for Closure status	NA	Internal Budget Provision
11	Financial Provision for Closure - amount of cover	NA	Internal Budget Provision
12	Financial Provision for Closure - type	NA	Internal Budget Provision
13	Financial provision for Closure expiry date	NA	

Environmental Management Programme/Continuous Improvement Programme template			Lic No:	P0504-01	Year	2013
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Highlighted cells contain dropdown menu click to view		Additional Information	
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	Internal unaccredited EMS
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes	

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Reduction of emissions to Air	Training.Continue to train all employees in environmental matters. Training will be by means of the screening of	90	In total 49 Personnel received training in 2013. There was a total of 10867 tonnes of headland peat collected in the 2013 season..	Individual	Reduced emissions
Waste reduction/Raw material usage efficiency	Waste Streamlining.It is planned to continue with and where possible improve the current waste management service provided by AES Ltd	100	Installed a waste management system. Quarterly waste reports are returned for records/filing and waste streams are segregated on site to maximise recycling potential.	Section Head	Improved Environmental Management Practices
Reduction of emissions to Water	Training. Continue to train all employees in environmental matters. Training will be by means of the screening of an environmental DVD, followed by a power point presentation.	90	In total 49 Personnel received training in 2012. There was a total of 10867 tonnes of headland peat collected in the 2013 season.	Individual	Reduced emissions
Materials Handling/Storage/Bunding	Increased bund capacity will be provided where required. Bund integrity testing will be carried out where required.	80	There were no additional bund requirements. Bund integrity testing took place at four locations, all tests being successful.	Individual	Improved Environmental Management Practices

Environmental Management Programme/Continuous Improvement Programme template				Lic No:	P0504-01	Year	2013
Waste reduction/Raw material usage efficiency	Continue with the recycling of polyethylene. The sourcing of more recycling contractors will be ongoing.		In total 152.12 tonnes were sent off site for recycling. Procurement also exploring the possibility of securing further recyclers.				
Energy Efficiency/Utility conservation		100	The site successfully implemented the energy standard 50001. Energy management is ongoing at the site.	Individual		Improved Environmental Management Practices	
Groundwater protection		90	The treatment system at Derryarogue yard was upgraded to a 6 PE Platinum Aeration System and raised percolation area.	Section Head		Improved Environmental Management Practices	

Noise monitoring summary report

Lic No: P0504-01

Year2013

1 Was noise monitoring a licence requirement for the AER period?
If yes please fill in table N1 noise summary below

No

2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6?

[Noise Guidance note NG4](#)
NA

3 Does your site have a noise reduction plan

NA

4 When was the noise reduction plan last updated?

5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

NA

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site</u> compliant with noise limits (day/evening/night)?
								SELECT	SELECT		SELECT

*Please ensure that a tonal analysis has been carried out as per guidance note NG4. These records must be maintained onsite for future inspection

If noise limits exceeded as a result of noise attributed to site activities, please choose the corrective action from the following options?

SELECT

** please explain the reason for not taking action/resolution of noise issues?

Any additional comments? (less than 200 words)

Resource Usage/Energy efficiency summary

Lic No:

P0504-01

Year

2013

Additional information

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
- Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information
- 2 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information
- 3

[SEAI - Large](#)
[Industry Energy](#)
[Network \(LIEN\)](#)

Jul-13	
Yes	The site secured accreditation to the energy standard 50001
No	Not a Licence requirement

Table R1 Energy usage on site

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	15356	24653	214	60
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	1523	1649	214	11
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	1361	2264	214	66
Natural gas (m3)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

* where consumption of energy can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

** where site production information is available please enter percentage increase or decrease compared to previous year

Table R2 Water usage on site

					Water Emissions	Water Consumption	
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Volume Discharged back to environment(m ³ /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply							
Recycled water							
Total							

* where consumption of water can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

** where site production information is available please enter percentage increase or decrease compared to previous year

Table R3 Waste Stream Summary

	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	38.02		1	37.02	
Non-Hazardous (Tonnes)	3266.83	23.15	0	293.22	2950.46

Resource Usage/Energy efficiency summary	Lic No:	P0504-01	Year	2013
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Table R4: Energy Audit finding recommendations								
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
			SELECT					
			SELECT					
			SELECT					

Table R5: Power Generation: Where power is generated onsite (e.g. power generation facilities/food and drink industry)please complete the following information

	Unit ID	Unit ID	Unit ID	Unit ID	Station Total
Technology					
Primary Fuel					
Thermal Efficiency					
Unit Date of Commission					
Total Starts for year					
Total Running Time					
Total Electricity Generated (GWH)					
House Load (GWH)					
KWH per Litre of Process Water					
KWH per Litre of Total Water used on Site					

Lic No:

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Year

2013

Additional information

Yes	
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Table 1 Complaints summary

Complaints Summary							
Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Resolution date	Further information
14/06/2013	Air		Complaint about Bord na	Informed production pers	Complete	17/06/2013	Reported on ALDER on 21/06/2013
19/07/2013	Air		Complaint about Bord na	Informed production pers	Complete	22/07/2013	Reported on ALDER on 19/08/2013
22/07/2013	Air		Complaint about Bord na	Informed production pers	Complete	29/07/2013	Reported on ALDER on 19/08/2013
23/07/2013	Air		Complaint about Bord na	Informed production pers	Complete	29/07/2013	Reported on ALDER on 20/08/2013
06/08/2013	Air		Complaint about Bord na	Informed production pers	Complete	09/08/2013	Reported on ALDER on 14/10/2013
09/09/2013	Air		Complaint about Bord na	Informed production pers	Complete	19/09/2013	Reported on ALDER on 27/09/2013
Total complaints open at start of reporting year		0					
Total new complaints received during reporting year		6					
Total complaints closed during reporting year		6					
Balance of complaints end of reporting year		0					

Incidents

Yes	
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What is an incident

Table 2 Incidents summary

[illegible]

WASTE SUMMARY	Lic No:	P0504-01	Year	2013
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Table 4 Environmental monitoring-landfill only [Landfill Manual-Monitoring Standards](#)

Was meteorological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments

.-+ please refer to Landfill Manual linked above for relevant Landfill Directive monitoring standards

Table 5 Capping-Landfill only

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard m2 ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					

*please note this includes daily cover area

Table 6 Leachate-Landfill only

9 Is leachate from your site treated in a Waste Water Treatment Plant?

SELECT

10 Is leachate released to surface water? If yes please complete leachate mass load information below

SELECT

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments

Please ensure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTR returns

Table 7 Landfill Gas-Landfill only

Gas Captured&Treated by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
			SELECT	

Comments on liner type

**Mountdillon
Decommissioning and Rehabilitation
AER Overview 2013.**

Within the Mountdillon licensed area (P0504-01) there were no bogs available for rehabilitation in 2013. Ongoing monitoring of cutaway within the Mountdillon licensing area included the re-survey of cutaway at Derryadd3 (Lough Bannow), Derrycashel and Knappogue bog units. .

Draft rehabilitation plans for the Mountdillon bogs licensed area, including more detailed draft plans for each component bog unit were submitted to the EPA in 2013. The plans will be reviewed in Winter 2014/2015 and updated accordingly. The BNM Ecology Team (who plan and manage rehabilitation) met with the EPA inspectorate in 2013 to outline the general content and a review process was agreed. This will involve a biannual review and update of plans as well as more detail and finalisation of plans for sites that have been taken out of production.

The annual Biodiversity Action Plan review day was held in December 2013 and this included an update on progress of this plan, bog restoration and cutaway rehabilitation for a wide range on statutory and non-statutory consultees including members of the NPWS, BWI, Bord na Mona, Coillte, Inland Fisheries Ireland, An Taisce, IPCC, Irish Red Grouse Association, Irish Wildlife Trust, NARGC, local game councils, Midland Regional Planning Authority as well as a range of local community groups and Heritage Officers from counties Laois, Offaly, Kildare, Roscommon, Longford, Meath, Galway, Westmeath and Dublin.

The Restoration and Aftercare Plans for the Mountdillon Group of Bogs was submitted to the Agency in April 2013.

A copy of our Biodiversity Action Plan is available to view and download at <http://www.bordnamona.ie/our-company/biodiversity/>

Bord na Mona Mountdillon
IPPC Licence P0504-01

Siltpond Monitoring Frequency & Results

X	Y	Bog	SW	Monitoring	Sampled	pH	SS	TS	Ammonia	TP	COD	Colour
199698.09	276893.88	Grannaghan	SW-23	Q1 13	25/03/2013	7.6	5	194	0.06	0.05	67	157
202604.45	281233.03	Cloonshannagh	SW-11	Q1 13	25/03/2013	7.1	5	126	0.37	0.05	70	233
201425.36	279968.71	Cloonshannagh	SW-6	Q1 13	25/03/2013	7.1	5	102	0.13	0.05	62	194
198696.31	272347.40	Cloontuskert	SW-26	Q1 13	25/03/2013	7.7	5	217	1.6	0.05	55	101
198696.43	272374.18	Erenagh	SW-25	Q1 13	25/03/2013	7.8	5	234	0.11	0.05	37	77
204806.31	268664.26	Derryadd	SW-68	Q1 13	25/03/2013	8	6	282	0.68	0.05	56	108
203231.82	282838.72	Derrymoylin	SW-1	Q2 13	24/06/2013	7.9	5	366	0.12	0.06	34	84
201425.36	279968.71	Cloonshannagh	SW-6	Q2 13	24/06/2013	8.1	9	346	0.1	0.09	63	135
202255.50	279742.53	Cloonshannagh	SW-7	Q2 13	24/06/2013	7.8	17	312	0.32	0.13	53	71
239153.00	272761.06	Milkernagh	SW-100	Q2 13	24/06/2013	7.6	15	330	1.1	0.14	74	137
238999.58	271185.82	Coolnagun Bog	SW-101	Q2 13	24/06/2013	7.2	5	354	0.3	0.05	62	147
238932.15	270926.89	Coolnagun Bog	SW-102	Q2 13	24/06/2013	7.2	5	336	0.28	0.05	56	150
237624.43	269656.41	Coolnagun Bog	SW-103	Q3 13	09/09/2013	8.1	5	330	0.57	0.06	86	133
236100.91	269178.31	Coolnagun Bog	SW-104	Q3 13	09/09/2013	7.8	5	288	1.4	0.05	66	147
202604.45	281233.03	Cloonshannagh	SW-11	Q3 13	09/09/2013	7	5	128	0.47	0.16	100	305
202802.57	282212.51	Cloonshannagh	SW-11A	Q3 13	09/09/2013	7.1	15	126	0.8	0.07	114	290
201386.06	280466.96	Cloonshannagh	SW-12	Q3 13	09/09/2013	7.5	12	178	0.39	0.05	91	206
203087.79	277486.67	Derrycashel	SW-13	Q3 13	09/09/2013	6.8	5	136	0.29	0.16	91	180
202836.32	277415.17	Derrycashel	SW-14	Q4 13	25/11/2013	4.8	5	154	0.21	0.05	129	383
202442.72	277238.02	Derrycashel	SW-15	Q4 13	25/11/2013	6.6	5	172	1.1	0.05	71	184
201764.79	277022.51	Derrycashel	SW-16	Q4 13	25/11/2013	7.7	8	358	0.36	0.05	50	92
200798.96	275520.06	Mountdillon	SW-18	Q4 13	25/11/2013	7.3	5	250	0.57	0.05	76	193
200723.37	275195.91	Mountdillon	SW-18A	Q4 13	25/11/2013	7.3	5	309	0.56	0.05	50	133
200579.43	275879.05	Mountdillon	SW-19	Q4 13	25/11/2013	7	5	162	3	0.05	62	142

Yard Discharge Results 2013						
Licence: P0504-01						
Works: Mt Dillon						
Month	W/Shop SWE 1 COD	W/Shop SWE 2 COD	Yard SWE 1 COD	Yard SWE 2 COD	C na Gun SWE1 COD	P Station SWE 1 COD
Jan	84	64	40	42	24	NF
Feb	74	59	NF	NF	10	NF
Mar	56	54	NF	NF	24	NF
Apr	53	57	NF	35	NF	NF
May	44	63	NF	NF	43	NF
June	51	96	NF	NF	NF	NF
July	NF	NF	NF	NF	NF	NF
Aug	NF	NF	NF	NF	NF	NF
Sep	NF	31	NF	NF	NF	NF
Oct	46	55	NF	NF	NF	NF
Nov	56	66	NF	NF	NF	NF
Dec	45	64	NF	NF	20	NF

Note: NF denotes no flow at emission point on day of sampling



| PRTR# : P0504 | Facility Name : Bord Na Mona Energy Limited | Filename :
P0504_2013(1).xls | Return Year : 2013 |

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[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.18

REFERENCE YEAR	2013
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1. FACILITY IDENTIFICATION

Parent Company Name	Bord Na Mona Energy Limited
Facility Name	Bord Na Mona Energy Limited
PRTR Identification Number	P0504
Licence Number	P0504-01

Waste or IPPC Classes of Activity

No.	class_name
1.4	The extraction of peat in the course of business which involves an area exceeding 50 hectares.

Address 1	Mountdillon
Address 2	Lanesboro
Address 3	Co Longford
Address 4	
	Longford
Country	Ireland
Coordinates of Location	-7.92868 53.6697
River Basin District	IEGBNISH
NACE Code	0892
Main Economic Activity	Extraction of peat
AER Returns Contact Name	Enda Mc Donagh
AER Returns Contact Email Address	enda.mcdonagh@bnm.ie
AER Returns Contact Position	Head of Environment
AER Returns Contact Telephone Number	0579345911
AER Returns Contact Mobile Phone Number	0862370816
AER Returns Contact Fax Number	0579345160
Production Volume	1263263.0
Production Volume Units	Tonnes
Number of Installations	19
Number of Operating Hours in Year	2232
Number of Employees	142
User Feedback/Comments	In accordance with licence condition 6.2 of Technical Amendment A, quarterly sampling is now rotated every quarter and therefore suspended solids results are not factored into loading.
Web Address	www.bnm.ie

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
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# : P0504 | Facility Name : Bord Na Mona Energy Limited | Filename : P0504_2013(1).xls | Return Year : 2013 |

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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			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
					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				
Pollutant No.	Name	M/C/E	Method Used		DM-01	DM-02	T (Total) KG/Year	A (Accidental)	F (Fugitive)
			Method Code	Designation or Description	Emission Point 1	Emission Point 2		KG/Year	KG/Year
210	Dust	E	OTH	VDI 2119 Blatt 2/Part 2	0.0	0.0	0.01442	0.0	0.01442

* 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:		Bord Na Mona Energy Limited			
Please enter summary data on the quantities of methane flared and / or utilised					
		T (Total) kg/Year		Method Used	
		M/C/E	Method Code	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# : P0504 | Facility Name : Bord Na Mona Energy Limited | Filename : P0504_2013(1).xls | Return Year : 2013 |

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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 co

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		M/C/E	Method Used		QUANTITY			
No. Annex II	Name		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		M/C/E	Method Used		QUANTITY			
No. Annex II	Name		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		M/C/E	Method Used		QUANTITY			
Pollutant No.	Name		Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
240	Suspended Solids	E	OTH	G/19 Based on ALPHA, 1998, 20th Edition, Method 2540D	Sw 62 5447.51	5447.51	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# : P0504 | Facility Name : Bord Na Mona Energy Limited | Filename : P0504_2013(1).xls | Return

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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			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
					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			
Pollutant No.	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
					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

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR# : P0504 | Facility Name : Bord Na Mona Energy Limited | Filename : P0504_2013(1).xls | Return Year : 2013 |

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SECTION A : PRTR POLLUTANTS

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

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

[PRTR# : P0504 | Facility Name : Bord Na Mona Energy Limited | Filename : P0504_2013(1).xls | Return Year : 2013]

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Please enter all quantities on this sheet in Tonnes

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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)
						M/C/E	Method Used					
Within the Country	01 01 02	No	1447.0	wastes from mineral non-metalliferous excavation	D1	E	Volume Calculation	Onsite of generatic	Bord na Mona Energy Ltd,P0504-01	Mountdillon,Lanesboro,Longford,,Ireland		
Within the Country	01 01 02	No	1503.0	wastes from mineral non-metalliferous excavation	D1	M	Weighed	Onsite of generatic	Bord na Mona Energy Ltd,P0504-01	Mountdillon,Lanesboro,Longford,,Ireland		
Within the Country	02 01 04	No	152.12	waste plastics (except packaging)	R3	M	Weighed	Offsite in Ireland	Leinster Environmentals,WP2008/06	Haggardstown,Dundalk,Louth,,Ireland		
To Other Countries	11 01 13	Yes	0.72	degreasing wastes containing dangerous substances	R2	C	Volume Calculation	Abroad	Safety Clean Ltd,99-1	Tallaght,Dublin,,Ireland	Solvent Recovery Management,PP33345F,Weeland Rd,Knottingly,West Yorks,WF118DZ,United Kingdom	Weeland Rd,Knottingly,West Yorks,WF118DZ,United Kingdom
Within the Country	13 02 05	Yes	31.52	mineral-based non-chlorinated engine, gear and lubricating oils	R1	C	Volume Calculation	Offsite in Ireland	Enva Ireland Ltd,184-1	Clonminam Indust Estate,Portlaoise,Laois,,Ireland	Enva Ireland Ltd,184-1,Clonminam Indust Estate,Portlaoise,Laois,,Ireland	Clonminam Indust Estate,Portlaoise,Laois,,Ireland
Within the Country	15 01 01	No	4.28	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	Mulleadys Ltd,S/E 152/2002	Drumlish,Longford,,Ireland		
Within the Country	15 01 03	No	17.68	wooden packaging	R1	M	Weighed	Offsite in Ireland	AES Ltd,053/OY/39/02	Cappincur,Tullamore,Offaly,,Ireland		
To Other Countries	16 01 07	Yes	2.08	oil filters	R4	C	Volume Calculation	Abroad	Enva Ireland Ltd,184-1	Clonminam Indust Estate,Portlaoise,Laois,,Ireland	RD Recycling,51727/1/KD,Hauthalen,,Belgium	Hauthalen,,Belgium
To Other Countries	16 06 01	Yes	2.7	lead batteries	R6	M	Weighed	Abroad	Enva Ireland Ltd,184-1	Clonminam Indust Estate,Portlaoise,Laois,,Ireland	Campine Recycling,MLAV/05-173/GVDA,Beerse,,Belgium	Beerse,,Belgium
Within the Country	17 04 07	No	119.14	mixed metals	R4	M	Weighed	Offsite in Ireland	AES Ltd,053/OY/39/02	Cappincur,Tullamore,Offaly,,Ireland		
Within the Country	20 03 01	No	12.63	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	AES Ltd,053/OY/39/02	Cappincur,Tullamore,Offaly,,Ireland		
Within the Country	20 03 01	No	2.0	mixed municipal waste	D1	C	Volume Calculation	Offsite in Ireland	AES Ltd,053/OY/39/02	Cappincur,Tullamore,Offaly,,Ireland		
To Other Countries	15 02 02	Yes	1.0	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	R1	M	Weighed	Abroad	Enva Ireland Ltd,184-1 Clonminam Indust Estate Portlaoise Laois . Ireland	Clonminam Indust Estate,Portlaoise,Laois,,Ireland	Lindenschmidt ,E97095037,Kreuztal,,Germany	Kreuztal,,Germany

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