

BORD NA MÓNA

BORD NA MÓNA ENERGY LIMIT LO MORKS, UMENT LO MOUNTAIN LO MOUNTAIN LO MOUNTAIN LO MONTA LO MON

Annual Environmental Report

March 2006

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1.0 Introduction

1.1 I.P.C. Licence No. 504

1.2 Name and Location of Site

Name

Bord na Mona Energy Limited

Full Address

Mountdillon Group

C/o Mountdillon Works

Lanesboro

Co Longford

Telephone No.

043 21117

Fax No 043 21259

National Grid Reference No.

E204720 N268880

1.3 Brief Description of Activities

Mountdillon group of bogs is situated in Counties Longford Roscommon, and Westmeath.

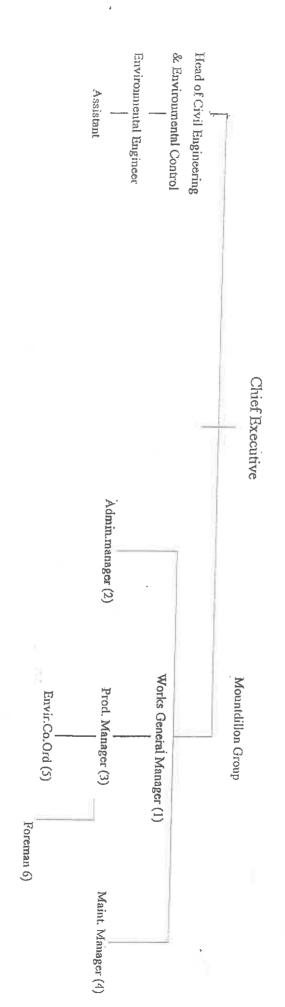
This group of bogs drain into the upper Shannon Catchment. Gross working hectares for Mountdillon is 4,950 and it is a completely milled peat operation.

Our sole customer is the E.S.B. Mountdillon is divided into 10 working areas namely Lough Bannow, Derryadd, Derryarogue, Knappoge, Begnagh, Clooneeny,

Derrycolumb, Derryshannoge, Cloontuskert, Cloonshannagh, Derrymoylin, Mt/Dillon, Derrycashel, and Eddera. Cuil na gCun and Milkernagh

Bord Na Mona Energy Limited

Environmental Responsibilities



- Overall Environmental Responsibility
- Records and Complaints Registor
- All Production related issues (Silt, dust, noise, water, code of practice)
- Machine maintenance, stores, workshop, yards, waste
- Monitoring Maintenance records
- Silt settlement, pond maintenance, codes of practice, peat loading, tea centres

1.5 Environmental Policy

BORD NA MÓNA

Environmental Policy Statement

Bord Na Mona Energy Limited is a commercial semi-state body with responsibility to develop Ireland's peat resources in the national interest.

Bord Na Mona Energy Limited is committed to gather and make available information on all aspects of its environmental impact and to help improve understanding among the public generally of its role and of the importance of Irish peatlands.

Bord Na Mona Energy Limited recognises the importance of peatland conservation.

Bord Na Mona Energy Limited will leave behind all areas it owns as either an economically or socially integrated resource of high environmental value.

Bord Na Mona Energy Limited seeks to conduct all aspects of its business in an environmentally sensitive manner.

Bord Na Mona Energy Limited will establish an environmental management system specifically addressing the following impacts:

- Discharges to water
- Emissions to atmosphere
- Waste disposal
- Use of natural resources
- Noise, vibration, odour, dust and visual effects
- Natural environmental and eco-system

The environmental management system will be monitored, maintained and continually improved.

A system of regular environmental audits will be put in place.

Bord Na Mona Energy Limited will continue research and development(R&D) into all aspects of its environmental impact

This statement is published and is available at all locations within the section and its contents are brought to the attention of all employees.

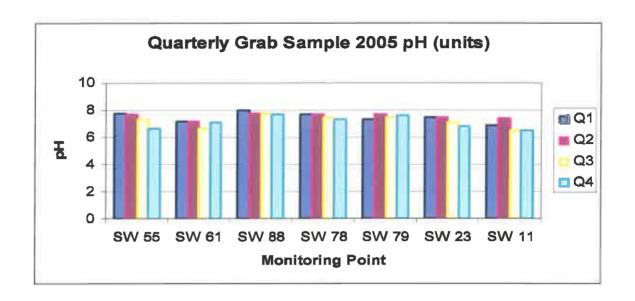
2.0 Summary Information

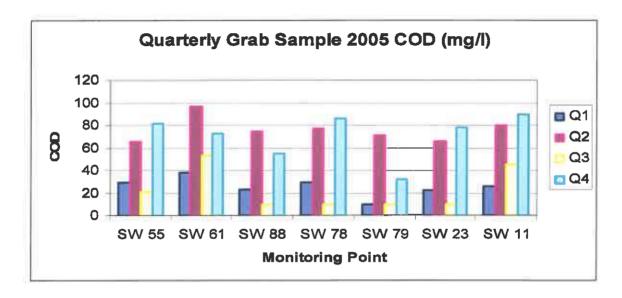
2.1 Emissions to Water Summary

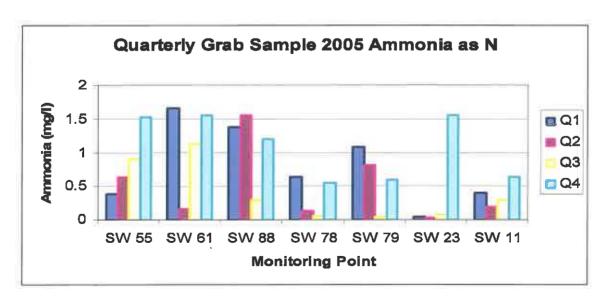
2.1.1 Silt Pond Emissions

Monitoring and sampling from agreed discharge points are carried out quarterly in the form of grab samples Samples were taken each quarter from each of the agreed outlets in accordance with the regular sampling programme. During dry months or when the flow is backed up there is no measured flow

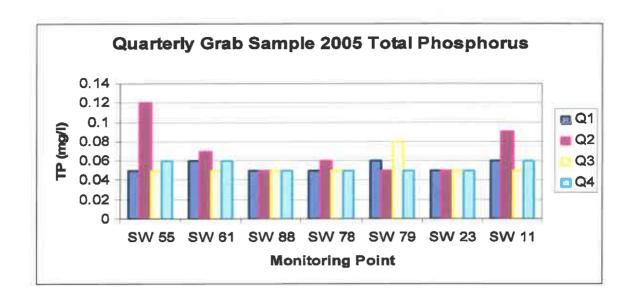
Results for the 2005 season are included on the following pages

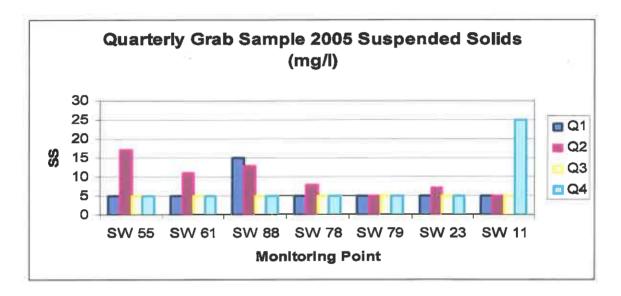


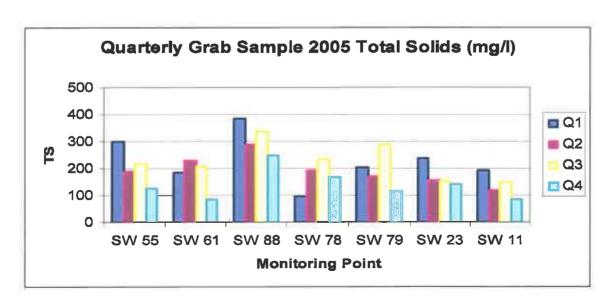


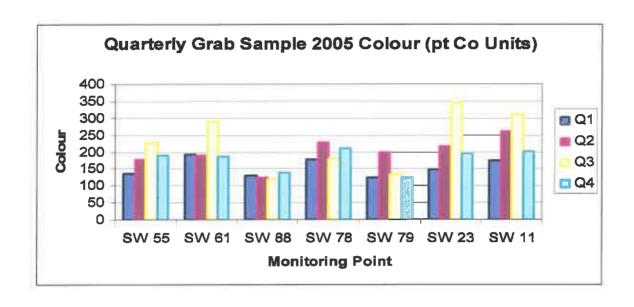


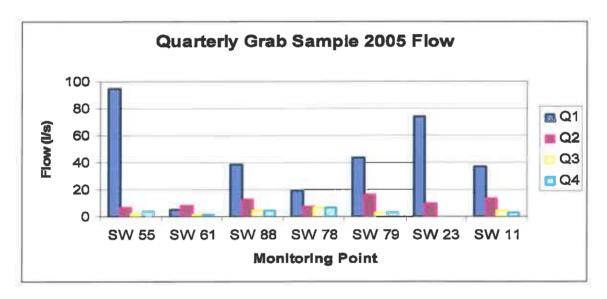
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2.1.2 Yard Discharges

Finission of	1						COD	D (mg/l)	COD (mg/l)	1			
-unasiyu pt	January	February	March	April	May	June	July	August	September	October	November December	December	Emission Limit
SWE-1: w/shop	57	No flow	73	3	45	22	215	2					Value
A CONTRACTOR OF THE PARTY OF TH		100	ĩ	5	74.	8	flow	33	68	82 2	No flow	33	N/A
SWE-2 W/shop		No flow	66	40	136	61	No	49	41	106	No flow	355	
SWE-1 vard	23	No flow	32	2	2	3	AL OTT						
(1	TAO TTO AA	t o	i NO	32	23	ŅO		53	180	No flow	51	
י כמיזור				Доw			flow					,	
owe-2 yard	2.2	No flow	35	No	134	59	No	23	256	75	No flow	15	
				flow			flow					ð	
SWE-1 p/stat		No flow	No	No	No	No	No	Z'	No flow	No flow	No flow	No figure	1
Transition of the second			flow	flow	flow	flow	flow	flow	:	1	110 110 11	MOT ONT	
SWIE-I	55	31	25	No	72	61	No ·	No	52	138	No flow	161	
				flow			flow	flow			3	Ç	

results of which are included in the monthly monitoring programme, and reported on quarterly All of the yard run-off in the Mountdillon Group have oil interceptors installed at the works. Condition 9.1.8 calls for all surface water discharges to be fitted with an oil-interceptor within 12 mths of the date of licence,

^{*} No run off due to refuelling area totally roofed

2.1.3 Composite Sampler Report

The Composite Sampler has been operational since May 2001. It has been visited on a weekly basis since, and the samples have been removed and returned to Bord na Mona's Laboratory in accordance to sampling protocol. On the few occasions samples have not been recorded it has been due to one of the following: 1. No Flow 2. Power failure 3. Pond frozen The Composite sampler has been relocated to Lough Bannow bog silt pond no LW4 (SW76) IN june 2003 and the agency notified

The following are the parameters to be monitored.

Parameter	Monitoring Frequency	Location of analysis
pH (pH units).	Weekly	Laboratory
Flow (Vs)	Daily	On-site
Suspended Solids (mg/l)	Daily	Laboratory
Total Solids (mg/l)	Daily	Laboratory
Total Phosphorus as p (mg/l)	Weekly	Laboratory
Ammonia as N (mg/l)	Weekly	Laboratory
Colour (hazen units)	Weekly	Laboratory
COD (mg/l)	Weekly	Laboratory

See results in appendix 1

2.1.4 Non compliance

DATE	Non - Compliance	Cause	Corrective - Action
21 OCT 2005	1 Non Compliance	No obvious cause	Presonell instructed during subsequent training sessions

Samples for 2005 show a compliance level of 99.5% based on the number of samples taken during the year. This site is pumped drainage and this explains the intermittent sampling i.e. no samples due to no flow, other than this the composite sampler is operating well at this site and will continue to do so for 2006.

2.2 Emissions to Air

2.2.1 Dust Monitoring Locations Programme

Emission Point	DATE	Parameter	Average Emission (mg/m² /day)	Emission Limit Value
DM-01	16/05/05 — 16/06/05	Dust	44	(350mg/m ² /Day)
DM-02	16/05/05 — 16/06/05	Dust	22	(350mg/m ² /Day)

Emission Point	DATE	Parameter	Average Emission (mg/m²/day)	Emission Limit Value
DM-01	16/06/05 — 18/07/05	Dust	59	(350mg/m ² /Day)
DM-02	16/06/05 — 18/07/05	Dust	32	(350mg/m² /Day)

Emission Point	DATE	Parameter	Average Emission (mg/m² /day)	Emission Limit Value
DM- 01	18/07/05 — 18/08/05	Dust	39	(350mg/m ² /Day)
DM-02	18/07/05 – 24/08/05	Dust	177	(350mg/m² /Day)

2.2.2 Non compliance

DATE	Non - Compliance	Cause	Corrective – Action
	NONE		

Bord na Manue Energy Ltd.

IPC Licence Re No. 504

2.3 Waste Arisings

2.3.1 Hazardous Waste

BORD NA MÓNA

BORD NA MONA ENERGY LIMITED

Waste Management Record (Hazardous)

Group: BORD NA MONA IPC Licence no.: 504

Works: MOUNTDILLON

13.50.03 29.8 ATLAS Oil Ltd ATLAS Oil Ltd Oil recycled 16.06.01 3.9 Returnbatt Ltd. Returnbatt Ltd. Returnbatt Ltd. Returnbatt Ltd. Snam. France 16.06.03 0.025 Returnbatt Ltd. Returnbatt Ltd. Returnbatt Ltd. Accerac Germany							
13.50.03 29.8 ATLAS Oil Ltd ATLAS Oil Ltd 16.06.01 3.9 Returnbatt Ltd.							
13.50.03 29.8 ATLAS Oil Ltd ATLAS Oil Ltd Oil recycled 16.06.01 3.9 Returnbatt Ltd. Returnbatt Ltd. HJ Enthoven England.	Jan-Dec 0	Accerac Germany	Returnbatt Ltd.	Returnbatt Ltd.	0.025	10.00.03	- Illia y Dallelles
13.50.03 29.8 ATLAS Oil Ltd ATLAS Oil Ltd Oil recycled 16.06.01 3.9 Returnbatt Ltd. Returnbatt Ltd. HJ Enthoven England.	Jan-Dec 0	Snam. France	Returnbatt Ltd.	Returnbatt Ltd.	0.5/	16.06.02	Drimo Datteries
13.50.03 29.8 ATLAS Oil Ltd ATLAS Oil Ltd Oil recycled ATLAS Oil Ltd ATLAS Oil Ltd Oil recycled ATLAS Oil Ltd ATLAS Oil Ltd Oil recycled	Jan-Dec 0	HJ Enthoven England.	Returnbatt Ltd.	Returnbatt Ltd.	3.9	16.06.01	Lead Acid Batteries
T3601 2.34 ATLAS Oil Ltd ATLAS Oil Ltd Oil recycled	Jan-Dec 0	Oil recycled	ATLAS Oil Ltd	ATLAS Oil Ltd	29.8	13.50.03	Waste oil
	Jan-Dec 0	Oil recycled	ATLAS Oil Ltd	ATLAS Oil Ltd	2.34	13601	17.5 Bins oil filters

2.3.2 Non-Hazardous Waste



BORD NA MÓNA ENERGY LIMITED

Waste Management Record (NON Hazardous)

Group: BORD NA MONA IPC Licence no.: 504

Works: MOUNTDILLON

Polythene 02	Silt 01	General Waste 20	Scrap Metal 17	WASTE DESCRIPTION EWC TONNES CODE
02.01.02	01.01.02	20.01.00	17.04.07	EWC
546	1137 *	15.06	179.4	TONNES
Banner Recycling	Bord na Mona	Mulleadys	Hammond Lane	CONTRACTOR
Banner Recycling	Bord na Mona	Mulleadys	Hammond Lane	NAME OF PERSON ULTIMATELY RESPONSIBLE
Kilrush Co. Clare	On site	Ballinasloe Landfill	Athlone	DESTINATION
Jan-Dec 05	Jan-Dec 05	Jan-Dec 05	Jan-Dec 05	DATE

Tonnes dry weight

2.4 Energy and Water Consumptio

2.4.1 Energy Consumption

Fuel	Megawatt / HRS	Volume cu/mts	Tonnes
JAN - Dec 2005			
Diesel / Heating Oil	16369,33	1671.36	
Petrol	26.98	2.98	
Electricity	1703		
Peat Biquettes	395		79

2,4.2

The only water used in Mountdillon is in teacentres, workshops and office's and is negligible

2.5 Environmental Incidents and Complaints

2.5.1 Incidents

There were no incidents reported in Mountdillon in 2005

2 7. Complaints

Environmental Complaints Complaints received	4
Complaints requiring corrective action	т
Cate ories of complaint	
Odour	
Noise	
Water	
Air	4
Procedural	
Miscellaneous	

These have been reported to the E.P.A.

3.0 Management of the Activity

3.1 Environmental Management Programme Report 2005

*** **********************************	Environmental Manne ment Programme Report 2005.
Project	
Project 1. Reduction of fugitive dust emissions.	Training in Mountdillon was provided for all personnel during 2005. This was in the form of a Cleaner Production Training in Mountdillon was completed in May 2004, and covers all aspects of the LP.C. licence, and in particular, cleaner video and items relating to the target audience, accompanies the 1 hour training session. An internal audit of all LP.C. licensed sites also occurred during December of 2005 Headland Peat Mountdillon Works have two Headland Peat Harvesters, one mechanical bin and one haku type with three haku trailers. Mountdillon collected 11,000 tonnes of headland peat in 2005, helping tp reduce incidents of dust generation Hydraulic Harrows Hydraulic Harrows worked well in Mountdillon D.S.L.'s. in 2005, There are two working in Edera Bog, one in Derryadd Bog and one in Cloontuskert Bog, They have proved successful in helping to reduce dust generation on
Project 2. Minimisation of Suspended Solids	This project is ongoing and is primarily one of training. The Cleaner Production Video examines bad production methods that can lead to waste peat entering the drainage system. The video highlights these practices and demonstrates improvements that can be achieved through better driving and operation, 99% of personnel have received this training during 2005
Project 3. Effective spill/leak management of mobile fuelling tanks	Refuelling locations have been identified and relevant personnel notified, operating procedures have been put in place and all refuelling operatives have received training, Oil spill kits have been put in place and personnel trained in their
Droiget A Regise of silt and waste	This Project will be kent active should any opportunities for re-using silt pond waste arise

Project 5. Collection, storage and re-use of polythene.	Project 5. Collection, storage and re-use of baling/collection. A new mechanical method of stripping piles and rolling the polythene on a spool was developed. This will produce a more compact and cleaner method of removing and transporting the polythene to a storage area. Mountdillon have 5 in operation. There were 546 tonnes of polythene recycled in Mountdillon during 2005
Project 6. Condition 2.2.2.(v) Work implemented for dust sensitive locations	ALL D.S.L.'s have been identified within Mountdillon. A programme of tree planting was undertaken in 2005 in Edera Bog, a total of 3700 trees were planted on a raised area. Production in this area was curtailed to 50% of potential. The Harvester operating in this area has had its jib and cowl covered to reduce dust blow, two hydraulic harrows have been introduced see Project 1, two Headland Harvesters have been operating successfully to reduce the collection of peat along Headlands. A water tanker has been employed to dampen down Headlands. There were four complaints received in this area in 2005. A Tree planting programme was undertaken in all other D.S.L.'s in 2004 no complaints were received from these areas in 2005. We will continue to monitor the bergerhoff dust gauge's for 2006. The location of the tea centre has been identified as contributing to the dust situation in Edera Bog. Therefore it has been moved to a more suitable location away from the residential end of the bog.

P	Environmental Management Programme Proposal for 2006
Project 1. Reduction of fugitive dust emissions.	Training The Production Manager and area bog Foreman will visit each bog area to talk to personell about cleaner production methods in 2006. Training for all personnel was carried out in 2005. All new seasonal staff will receive training using the cleaner production video.
	Hydraulic Harrows There is no plan to increase the number of hyrraulic harrows in the Mountdillon area for 2006
	Headland Peat Collection
	It is proposed to increase the number of Headland Harvesters in the Mountdillon area by 1, this will bring the number to 3 for 2006. This extra Headland Harvester will operate west of the Shannon on the Roscommon Bogs and its effectiveness will be reported on in next year's A.E. R.
Project 2. Minimisation of Suspended Solids	Inspections during 2005 primarily targeted teacentres, oil stores, workshops etc. It is proposed to carry out inspections at a number of production locations during 2006, looking at cleaner production, dust sensitive areas, pand maintenance etc. The results of these inspections will be reported to the General Manager and any corrective actions will be maintained on file
Project 3. Effective spill/leak management of mobile fuelling tanks	These areas will also be inspected as part of the proposed inspections under Project 6above. Compliance with Conditions 9.1.1 to 9.1.14 will be checked and any improvements and corrective actions will be documented and maintained on file.
Project 4. Re-use of silt pond waste	This Project will be kept active should any opportunities for reusing silt pond waste arise
Project 5. Collection, storage and re-use of polythene.	An invitation to tender for the recycling of BNM'S polythene was sent to a number of interested companies in 2005. Six companies expressed an interest, and are currently been assessed as to environmental compliance with permitting regulations, collection methods, waste records transfers etc. It is proposed to select one or two of these companies to contract the recycling of the BNM Polythene in 2006
Project 6. Condition 2.2.2 (v) Provision of measures to protect dust sensitive areas	There are no plans to plant any shelter belts during 2006. The restricted area for production during adverse weather conditions will be increased for 2006 in the Edera bog area this will represent 50% of production acreage

3.2 Environmental Expenditure

Expenditure Related to the Operation During the Period JA Description	N 2005 - DEC 2005
Capital Costs	The second of th
Plant	225,036
Labour	173,533
Materials	31,533
Overheads (ESB, Phones, Consumables)	6.500
External Environmental Consultancy	
EPA Fees	7,983
Monitoring Cost	10 107 76
Total	454602.76

4.0 Licence Specific Reports

4.1 Surface Water Discharge Monitoring Location Programme Review

The surface water discharge monitoring location programme has been submitted and accepted by the Agency in July 2000. Three sampling locations have been changed in 2004 and the Agency notified Monitoring will be carried out at these locations in the forthcoming year.

During 2005, sampling at these sites was carried out successfully. There were no non-compliances at the 7 locations for 2005.

See results in 2.1.1

4,7 Bunding Programme

All yards and depots are now fully bunded

4.3 Boiler Combustion Efficiency

Boiler at the main workshop has been tested by Boiler Services Allenstown Broadway Co Wexford on 30/11/05 with efficiency levels of 88.6% to 90.3%

4.4 Resource Consumption Summary

There was a total of 845,980 tonnes of peat produced in Mountdillon and Cuil na Gcun and 657,952 tonnes of peat sold to Lanesboro Power station during the reporting period Jan – Dec 05

4.5 Report on de – silting Programme

De-silting Report JAN – Dec

2005

Area		No of C	Cleanings	
Cleaned	0	1	2	3
1			100%	
2			100%	
3			100%	
4			100%	
5			100%	
6			100%	
7			100%	
8			100%	
9			100%	
10			100%	

1 = Lough Bannow 2 = Derryadd 3 = D/aroge Cloonbony 4 = Knappoge 5 = Begnagh Clooneeny 6 = D/colum 7 = D/shannoge 8 = Cloontuskert Cloonadra 9 = Cloonshannagh D/moylin 10 = Mt/dillon D/cashel

See Appendix ii

4.6 Bog Development and Operational Programme

There are two bogs under development in the Mountdillon group of bogs namely Milkernagh and Cuil na gCun. Milkernagh bog produced 23779 tonnes of milled peat in the year 2005, production will continue for the year 2006. This bog is covered by adequately sized silt ponds which are cleaned twice a year. These silt ponds are included in the quarterly grab sampling by the E.P.A.

Development will continue in Cuil na gCun bog for the year 2006. Adequately sized silt ponds have been constructed here.

4.7 Bog Rehabilation Progress report

There has been no Bog Rehabilitation carried out in Mountdillon Bogs during 2005

4.8 Silt pond upgrade programme.

Stage 1 of Silt Pond upgrade programme (100% effluent treatment) - Completed

Stage 2 (100% design standard)

Pipes have been installed in order to increase the control over the discharges - Completed

Stage 3 (Pipe and weir installation)

All silt ponds in Mountdillon area have been fitted with pipes on inlet and outlet.

A programme of installing weirs or sluice gates has been completed.

To date 11 weirs or sluice gates have been fitted on pond numbers DS3 (SW79) DS5 (SW83) DS6 (SW84) BH5 (SW55) DD1 (SW68) DC10 (SW93) DC5(SW91) LB3(SW95) MN2(SW19) GN4(SW23) CH1(SW6).

5.0 Summary

Expenditure, non-compliances, future work (new machines) etc

With regard to environmental compliance at the Mountdillon Group of Bogs, there were no exceedences in the quarterly grab sampling of the ponds in the Surface Water Discharge Monitoring Location Programme.

There was one non compliance see 2.1.4 in relation to the Composite Sampler during the operation period of Jan to the end of December. Mountdillon received four complaint in relation to dust monitoring these have been reported to the Agency

Efforts will continue to minimise the impact of our operations on the local area. To this end it is proposed to extend the operation of our Headland Harvesting operations.

The staff awareness through training and involvement in the operation of the licence has also improved immensely. A full programme of training and awareness has been conducted at the works and has targeted all personnel ie. office, workshop, transport and production.

Emphasis has been increased in the area of Machine driving and use of technology in the effort to redu dust emmissions

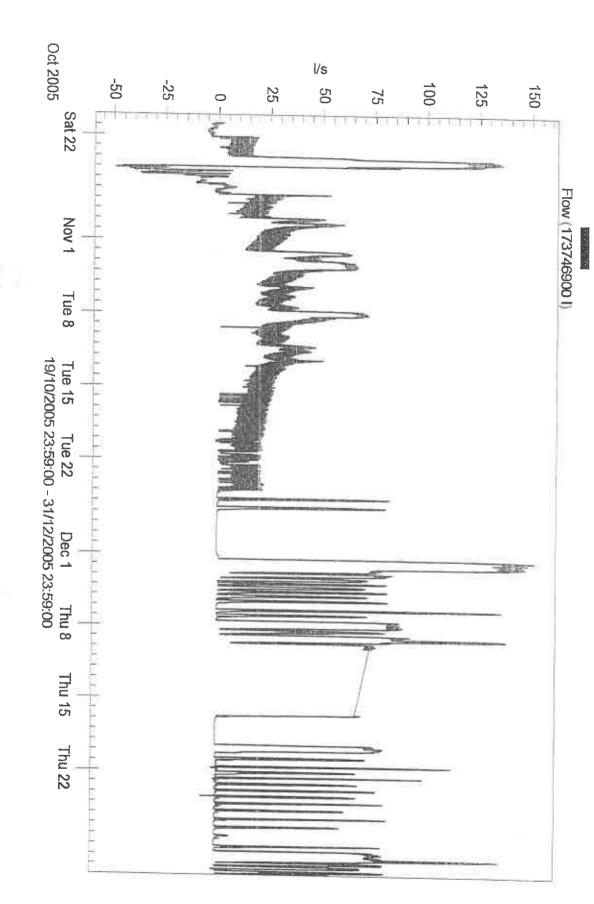
Bord na Mona Energy Ltd are represented on the Management Group of both the Shannon River and Eastern River Basin District Management Systems, set up under the Water Framework Directive, and on the Steering Group of the Catchment Management on the River Barrow.

Bord na Mona Energy Ltd would like to take this opportunity to advise the Environmental Protection Agency of its continued commitment to improving its environmental performance by adopting cleaner production methods and improving its environmental protection measures.

Appendix (i)

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Mountdillon Composite Flow Rates 2005
Flowlink 4 for Windows



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Bord Na Mona Energy Ltd, Mountdillon Group, Lanesboro, Co Longford Composite Sampler Results

31	30	29	28	17	26	25	24	23	23	21	20	19	18	17	16	15	14	13	12	-2	10	(0	α	, ,	0	හ	4	ω	2	÷		Jamary 2005
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																														Kg/Day	KgDay RgDay Phosphorus Solids Solids	Daily Totals
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Bord Na Mona Energy Ltd, Mountdillon Group, Lanesboro, Co Longford

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Bord Na Mona Energy Ltd, Mountdillon Group, Lanesboro, Co Longford Composite Sampler Results

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Bord Na Mona Energy Ltd, Mountdillon Group, Lanesboro, Co Longford Composite Sampler Results

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Bord Na Mona Energy Ltd, Mountdillon Group, Lanesboro, Co Longford Composite Sampler Results

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Bord Na Mona Energy Ltd, Mountdillon Group, Lanesboro, Co Longford Composite Sampler Results

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All flow data up to November 2005 was lost due to a technical fault in the storage of the data.

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All flow data up to November 2005 was lost due to a technical fault in the storage of the data.

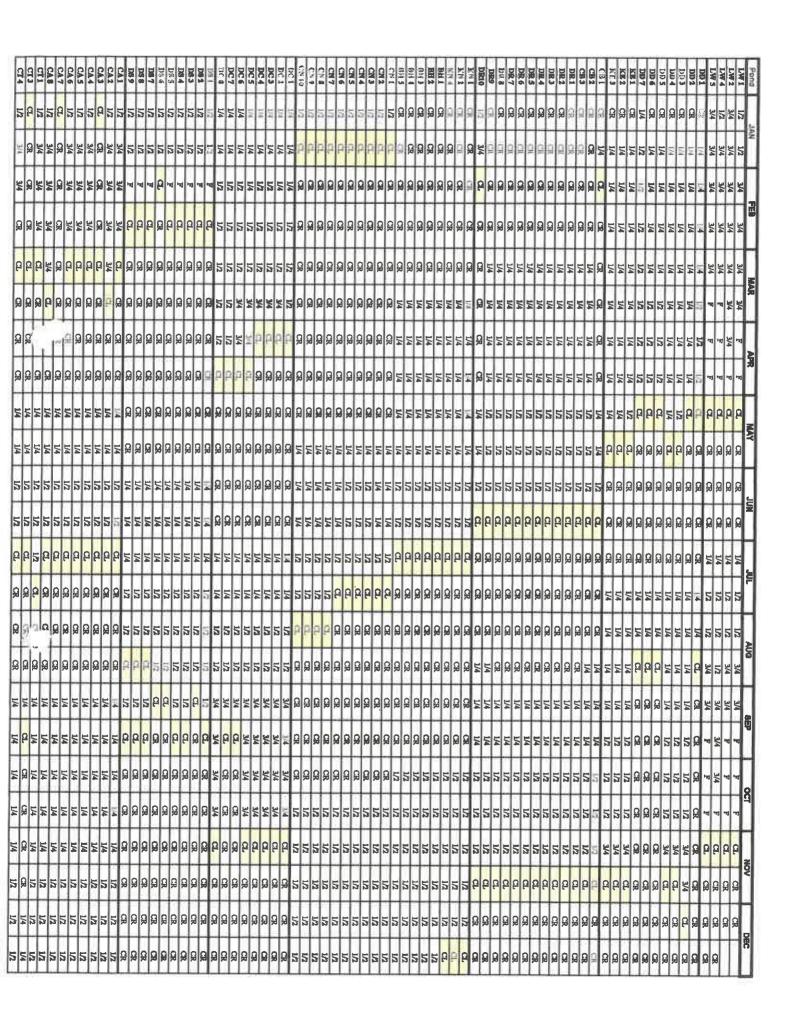
Bord Na Mona Energy Ltd, Mountdillon Group, Lanesboro, Co Longford Composite Sampler Results

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18.22	31.69															28,80								19.89	9.23	10.23	12.52	49.81	40.98	29,92	Kg/Day	Solids	Suspended
1069.13	2028.14															2177.32								978.56	608.91	556.58	721.00	954.66	2729.53		Kg/Day		Total

Appendix (ii)

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