



Annual Environmental Report 2007 P0504-01

March 2008

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5.0 Summary

Appendix 1: Emissions to Water Monitoring Results. (Bogs)

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Appendix 4: Emissions to Air Monitoring Results.

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1.0 Introduction**1.1 IPPC Licence No** 504**1.2 Name & Location of Site****Name:** Bord na Mona Energy Limited.**Address:** Mountdillon Group
C/o Mountdillon Works
Lanesboro
Co. Longford.**Telephone No:** 043 21117 Fax No 043 21259**Contact Name** Danny Murray**Position** Resource Manager**National Grid Reference** E204720 N268880

1.3 Description of Activities

Peat Milling Operations.

For milled peat production the bog is laid out in a series of rectangular fields of varying length and 15m wide with drains located between. There are essentially four operations involved in milled peat production:

Milling.

Harrowing.

Ridging.

Harvesting.

Milling.

Special milling machines work there way along the fields, milling approximately 15mm of peat of the top of the bog in a pass.

Harrowing

In the course of drying, the milled peat is turned a number of times to avail of the drying conditions. This is achieved with a machine called a harrow. The milled peat is harrowed until its moisture content is down to approximately 40-50%, which can take up to two to three days, weather depending.

Ridging

The dry peat is then scraped into long ridges running down the centre of each field. This is done with a ridger, a machine consisting of a series of blades in the shape of a v that opens the full width of the field.

Harvesting

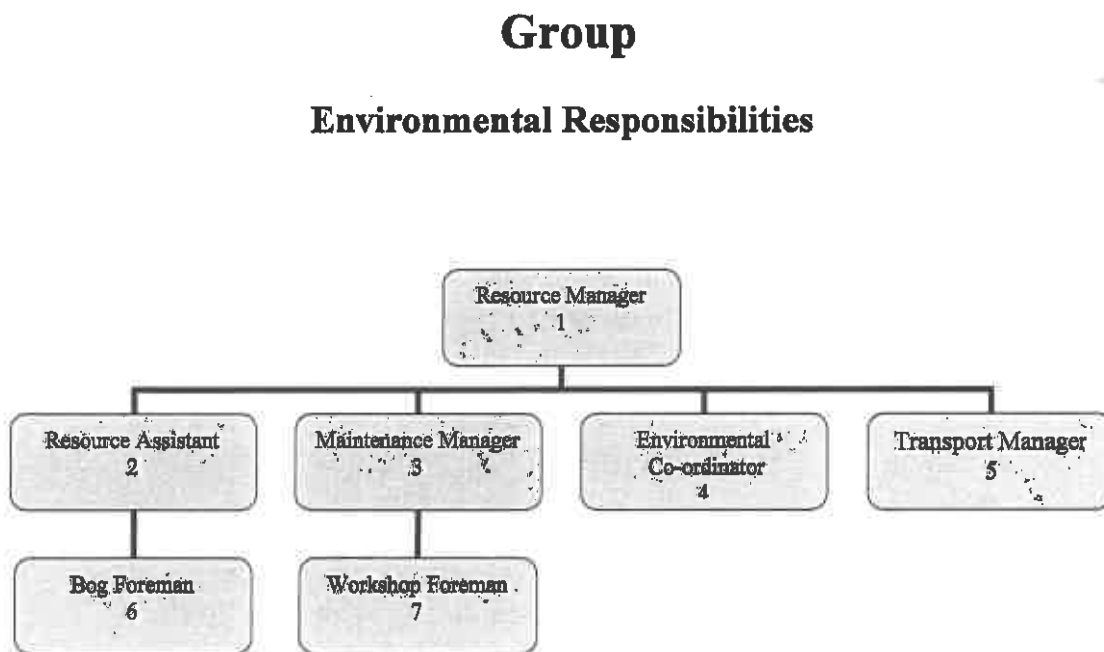
During harvesting every eleventh field is used to stockpile the peat, with this field receiving the milled peat from the five fields either side.

The milled peat is then transported via the existing network of peatland railways or via road to the following location.

Power station

1.4 Environmental Management of the Company

The organisational structure within the Mount Dillon Group is presented in the flow chart below.



- (1) Overall environmental responsibilities
- (2) All production related issues
- (3) Machine maintenance
- (4) Co-ordinating environmental affairs
- (5) All peat transportation matters
- (6) Environmental issues relating to peatlands.
- (7) Environmental issues relating to Workshops.

1.5 Environmental Policy



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 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 a high environmental value.

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

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 environment 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 into all aspects of its environmental impact.

This statement is published and is available at all locations within the division 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 (Quarterly Grab)

Comment

Surface water monitoring was carried out four times during the reporting period. In total analysis was carried out at seven different locations. These locations are as follows, Clonshannagh @ SW8, Granaghan @ SW23, Begnagh @ SW55, Cloneeney @ SW61, Derrycolumb @ SW88, Derryshanoge @ SW94 and Loughbannow @ SW95. The parameters measured during each sampling event were as follows.

Total Phosphorus, Total Solids, Suspended Solids, pH, Ammonia, Colour and COD.

In general results were constant across all parameters at each monitoring location.

December was the wettest month of 2007 with rainfall of 149.6mm being recorded, while April was the driest with 26.8mm recorded.

The quarterly grab sampling programme proved to be 100% compliant for the year as was the 2006 regime.

pH values were between 7.1 and 8.1, with normal emission limit values being of the range 6 and 9.

Suspended solids varied from 5mg/l to 20mg/l and would depend on activities (piping, ditching) etc in the catchments at the time of sampling. All are within the licence limit of 35mg/l.

Ammonia levels with the exception of SW 23 4th quarter were constant across all monitoring locations and well below the I/PV of 4mg/l for A3 waters. The elevated ammonia at SW 23 will be closely watched in 2008.

COD readings were consistent across all sampling locations during the reporting period, although some locations were above the I/PV of 40 mg/l. Results were down on previous years with no result above 90 mg/l.

Flow rates were similar to previous years with increased flows during the 3rd quarter not having any great effect on suspended solids results in the same period.

Total Phosphorus results were all within quality guidelines.

Sampling will continue at the same locations during 2008.

Surface Water Results are contained in Appendix 1

2.1.2 Yard Discharges (Monthly Grab)

Comment

Yard runoff monitoring took place at six different locations during the reporting period.

Sampling frequency was monthly and COD was the parameter requiring analysis. As is evident from the graph, on several occasions no sample was available on the day of sampling. This was due to no flow at the emission point and the catchments being so small.

Sampling will continue at the same locations during 2008.

Yard Emission Results are contained in Appendix 2

2.1.3 Composite Sampler Report

Comment

The composite sampler has been operating at SW96 during the reporting period. The parameters measured were Total Phosphorus, Total Solids, Suspended Solids, pH, Ammonia, Colour and COD, with Suspended solids being the only parameter with an emission limit value (35mg/l). In general results were satisfactory with no non-compliances being recorded for the period.

Dec was the wettest month of 2007 with rainfall of 149.6mm being recorded, while April was the driest with 26.8mm recorded.

Composite Sampler Results are contained in Appendix 3.

2.1.4 Emissions to Water Non-compliance's

IPPC Licence: P0504-01

Works: Mount Dillon

Type	Non-Compliances	Location / SW Nr
Composite	0	
Quarterly Grab	0	
Monthly Yard	NA	
Totals	0	

Note: Emission Limit Value = 35mg/litre

2.2 Emissions to Air

2.2.1 Dust Monitoring

Comment

Dust monitoring was carried out on three occasions between May and September.

Each monitoring event lasted between 28 and 32 days and the Bergerhoff method of analysis was used.

The monitoring locations were as follows, Edera and Cloonshanagh. A value of 511mg/m²/day was obtained during the July - August monitoring event at Cloonshanagh. This can not be explained as there was no production during this period with rainfall amounting to 128mm see corrective action report ref. no. 0008 dated 17/9/07. It should also be noted that all other results were below the emission value of 350 mg/m²/day set out in the licence and no complaints were received in relation to dust. Sampling will continue at the same locations during 2008.

Dust Monitoring Results are contained in Appendix 4.

2.2.2 Emissions to Air Non-compliance's

IPPC Licence: P0504-01

Works: Mount Dillon

Location / DM Nr	Non-Compliances
Edera / DM01	0
Cloonshanagh / DM02	1
Total	1

2.2 Waste Arisings

2.3.1 Non Hazardous Waste

Non Hazardous Waste Data

IPPC Licence: IPPC P 0504

Works: Mount Dillon

2007

Type	Tonnes	EWG Code	Contractor	Licence Nr
Skips	15.66	20 03 01	Mulleadys Ltd	S/E 152/2002
Polyethylene	472.82	02 01 04	Leinster Environmentals	WP 2004/30
Scrap Steel	241.54	17 04 07	Hammond Lane	050/OY/162/04
Timber Pallets	4.84	15 01 02	Kiawa Ltd	WP/TN/24
Silt Pond Cleanings	1137.96	01 01 02	Bord na Mona	IPPC P 0499
Peat Screenings	963.17	01 04 99	Bord na Mona	IPPC P 0499
Totals	2835.99			

Note: Polythene and Steel are recycled.

2.3.2 Hazardous Waste

Hazardous Waste Data

Licence: P0504-01

Works: Mount Dillon

Type	Tonnes	EW Code	Contractor	Licence Nr.	Destination
Waste Oil	14.5	13 02 05	Envia Ireland Ltd Portlaoise	184-1	Portlaoise
Oil Filters	0.01	16 01 07	Envia Ireland Ltd Portlaoise	184-1	Portlaoise
Oily Rags	0.02	15 02 02	Envia Ireland Ltd Portlaoise	184-1	Portlaoise
Lead Acid Batt	6.48	16 06 01	Envia Ireland Ltd Portlaoise	184-1	Portlaoise
Ni Cad Batt	0.022	16 06 02	Envia Ireland Ltd Portlaoise	184-1	Portlaoise
Parts Wash	1.07	11 01 13	Safety Kleen, Tallaght, Dublin	99-1	Dublin
Total	22.10				

2.4 Energy and Water Consumption

Water is not used as part of the production process and is only used on a domestic scale at canteens and workshops.

Energy Consumption

Licence: P0504-01				
Works: Mt Dillon				
Units	Diesel (Litres)	Petrol (Litres)	Electricity (Units)	Peat Briquettes (Tonnes)
Totals	1262909	1613	1297456	27.34
MW Hours	12366.9	14.58145	1297.456	136.7
Total MW Hours	13815.6			

2.5 Environmental Incidents and Complaints

2.5.1 Incidents

Environmental Incidents

Licence: P0504-01

Works: Mt Dillon

	Number
Incidents	Nil
Requiring corrective action	
Category	
Water	
Air	
Procedural	
Miscellaneous	
Total	NIL

2.5.2 Complaints

Environmental Complaints

Licence: P0504-01

Works: Mt Dillon

	Number
Complaints	Nil
Requiring corrective action	
Category	
Water	
Air	
Procedural	
Miscellaneous	
Total	NIL

3.0 Management of the Activity

3.1 Achievement of Objectives & Targets 2007

Project	Description & Status
Project 1: Reduction of fugitive dust emissions.	Training. Continue to train all new employees in environmental matters. Copy environmental video to disk and distribute more widely. All new employees will be trained during the year. Status The training video was successfully transferred onto DVD and distributed to all Licence holders. The DVD was also edited to include new improved poly stripping and rolling techniques. In total 175 personnel received training in 2007. Hydraulic Harrows. Continue to supply hydraulic harrows. Prioritising dust sensitive locations. There is one Hydraulic Harrow in operation at the moment we will continue to monitor the situation regarding introducing any more. Status No hydraulic harrows were introduced in 2007. Headland Peat Collection. Continue with the collection of headland peat, particularly at dust sensitive locations. Supply more headland peat collection machinery as required and research efficient ways of collecting such peat for use as a saleable product. Status Headland peat was collected at two locations during the production season 2007. In total 300 tonnes were collected.
Project 2: Minimisation of suspended solids	On Site Inspections. A full programme of internal audits will be carried out as soon as production commences. Particular emphasis will be put on cleaner production procedures, milling, harrowing, ridging, harvesting and loading. Status A comprehensive internal audit took place, which proved very successful. Follow up audits were subsequently carried out to ensure that initial findings were addressed and closed out.
Project 3: Effective spill leak management of mobile fuelling units.	On Site Inspections. As part of the above project, service trains will also be prioritised with a fitter accompanying the auditor during inspections to highlight any risks or potential risks that may occur. Status

	In conjunction with the above, the fitter at each location audited was present to inspect the service train. Any repairs that were required were identified and rectified.
Project 4: Fire Prevention.	Fire Patrols. There will be extra emphasis on fire patrols this coming production season. Research on improved fire fighting techniques will also be investigated. The newly adopted Fire and Environmental Plan will be communicated to all personnel. Status The fire prevention plan was communicated to all personnel
Project 5: Collection storage and reuse of polyethylene.	Identify Recyclers. Continue with the recycling of polyethylene. The sourcing of more recycling contractors will be ongoing. Status During the year a total of 472 tonnes of polythene has been sent for recycling to Leinster Environmentals, Dundalk.
Project 6: Provision of measures to protect Dust Sensitive Areas.	Planting. Planting is ongoing as required, with areas in the periphery of production bogs that are being developed for housing being prioritised. Status No planting took place in 2007.

3.2 Environmental Management Programme Proposal for 2008

Project	Description & Status
Project 1: Reduction of fugitive dust emissions.	Training. Train all employees in environmental matters. Training will be by means of the screening of an environmental DVD, followed by a power point presentation. Hydraulic Harrows. There are two new Hydraulic Harrows programmed for delivery for 2008 to be used in Dust Sensitive Locations. Headland Peat Collection. Continue with the collection of headland peat, particularly at dust sensitive locations. A new mobile Haku Harvester is programmed for delivery for 2008/09 which will include dust sensitive headlands in its operations.
Project 2: Waste Management	On Site Inspections. A full programme of internal audits will be carried out as soon as production commences. This will be an annual exercise with the 2008 audit placing more emphasis on waste management.
Project 3: Minimisation of Suspended Solids.	Training. Train all employees in environmental matters. Training will be by means of the screening of an environmental DVD, followed by a power point presentation.
Project 4: Effective spill leak management of mobile fuelling units.	Research and Development. The identification and ultimately the introduction of mobile fuelling units which will enhance the spill / leak management of fuel oils. Increased bund provisions are planned for 2008, as well as three new fuel service wheeled wagons which contain banded tanks. In addition to this, one new rail operated Fuel Service Wagon will be introduced in Mt Dillon.
Project 5: Collection storage and reuse of polyethylene.	Identify Recyclers. Continue with the recycling of polyethylene. The sourcing of more recycling contractors will be ongoing.
Project 6: Provision of measures to protect Dust Sensitive Areas.	Planting. Ongoing Planting is ongoing as required, with areas in the periphery of production bogs that are being developed for housing being prioritised.

3.3 Environmental Expenditure

Environmental Expenditure

Licence: P0504-01

Works: Mt Dillon

Description	Cost €
Capital Costs	117 500
Silt Control, (wages + mats)	184 776
Analytical & Consultancy Costs, (lab costs)	8654.74
EPA Fees	10 557.52
Total	€321,488.26

4.0 Licence Specific Reports

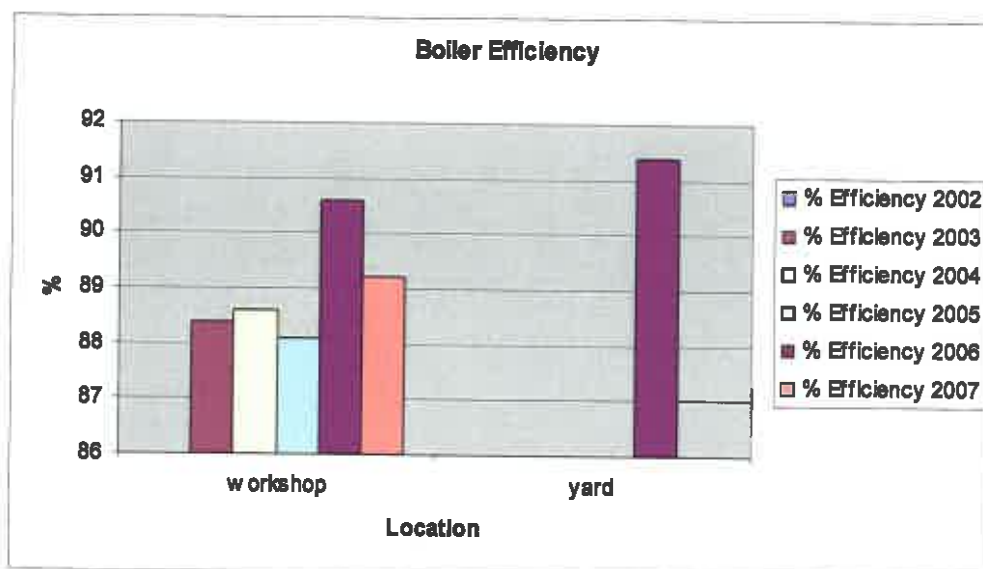
4.1 Surface Water Discharge Monitoring Location Programme Review

Surface water monitoring will take place at the same locations as 2007.

4.2 Bunding Programme

All bunds were integrity tested during the reporting period. There was also some remediation works carried out on bunds which had previously failed. These have since been retested and passed. One remaining bund at Mt Dillon Yard is currently awaiting repair / replacement.

4.3 Boiler Combustion Efficiency



4.4 Resource consumption summary

Resource Consumption			
Licence: P0504-01			
Works: Mount Dillon			
Product	Tonnes Produced	Tonnes Sold	Customer
Milled Peat	524977	536275	ESB
Totals	524977	536275	ESB

Proposed Production 2008	
Licence: P0504-01	
Works: Mount Dillon	
Product	Proposed Target
Milled Peat	580000
Totals	580000

4.5 De-Silting Report

The De-silting programme worked well during 2007 with all ponds receiving at least two cleanings

Silt Pond Cleaning Programme attached in Appendix 5.

4.6 Bog Development and Operational Programme

No bog development took place during 2007.

4.7 Bog Rehabilitation Report

There has been no Bog Rehabilitation carried out in Mountdillon Bogs during 2007.

4.8 Archaeological Report

Mountdillon – Survey work at Edera, Cuil na Gcun and Milkernagh bogs, with 5 sites found.

5.0 Summary

With regard to environmental compliance at the Mountdillon Group of Bogs, there were no non-compliances in the quarterly grab sampling of the ponds in the Surface Water Discharge Monitoring Location Programme. There were no non-compliance's in relation to the Composite Sampler during the period of January to the end of December.

There was one non-compliance in relation to dust and the Agency was informed, however, Mountdillon received no complaints in relation to dust or silt in 2007.

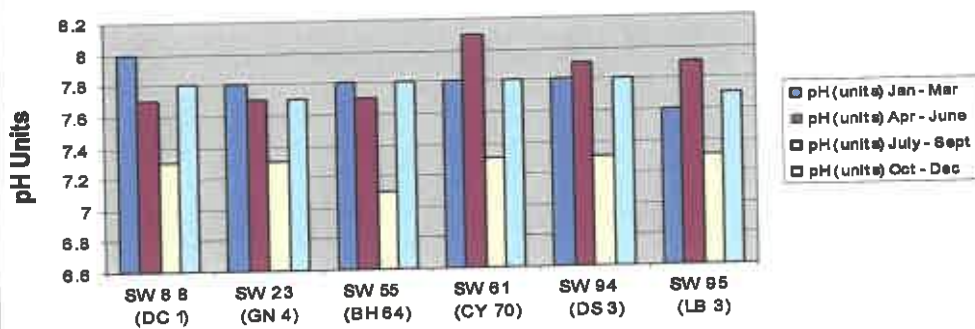
We intend to build on the success of 2007 and increase our efforts to minimise the impact of our operations on the environment. This will include the supply of additional plant, equipment and bunding. We have greatly improved our fire prevention and fire fighting capabilities in line with experience gained from the bog fires in June of 2006.

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.

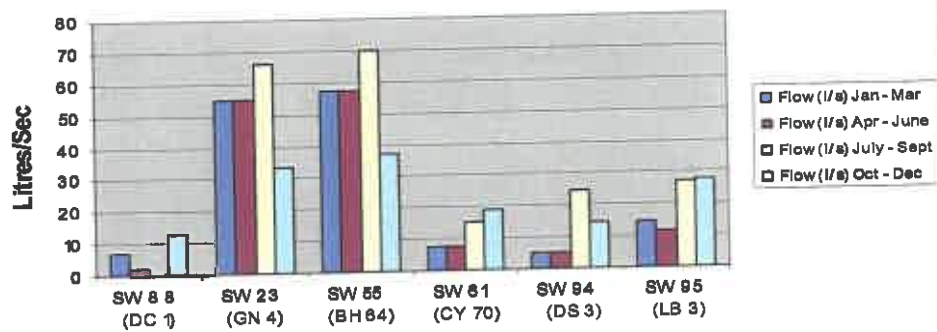
APPENDIX 1

Surface Water Discharge Monitoring Results Bogs

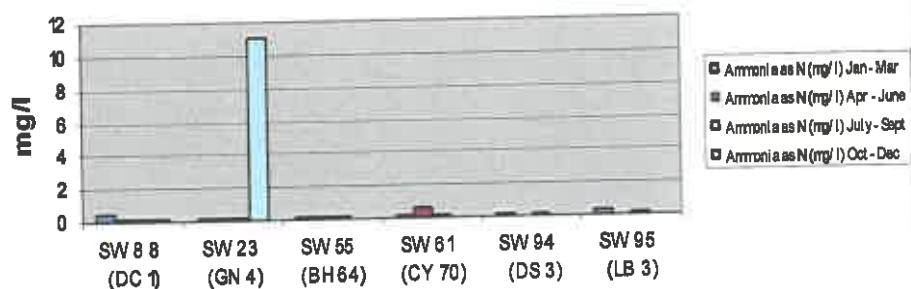
Surface Water pH 2007

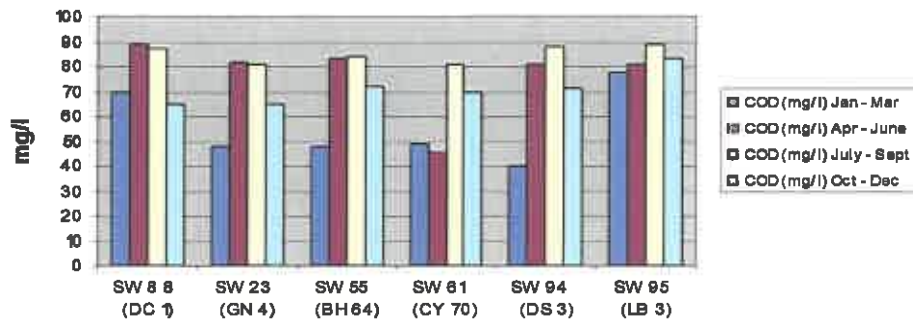
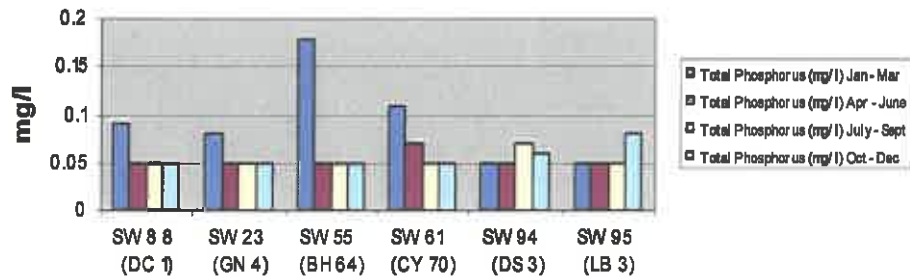
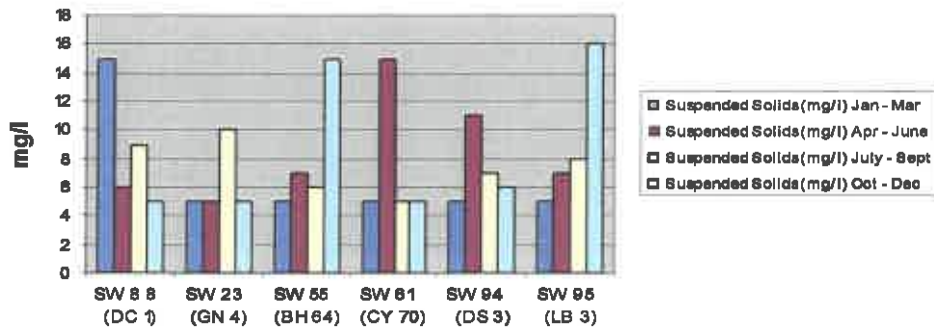


Surface Water Flow 2007



Surface Water Ammonia 2007



Surface Water COD 2007**Surface Water Phosphorus 2007****Surface Water SS 2007**

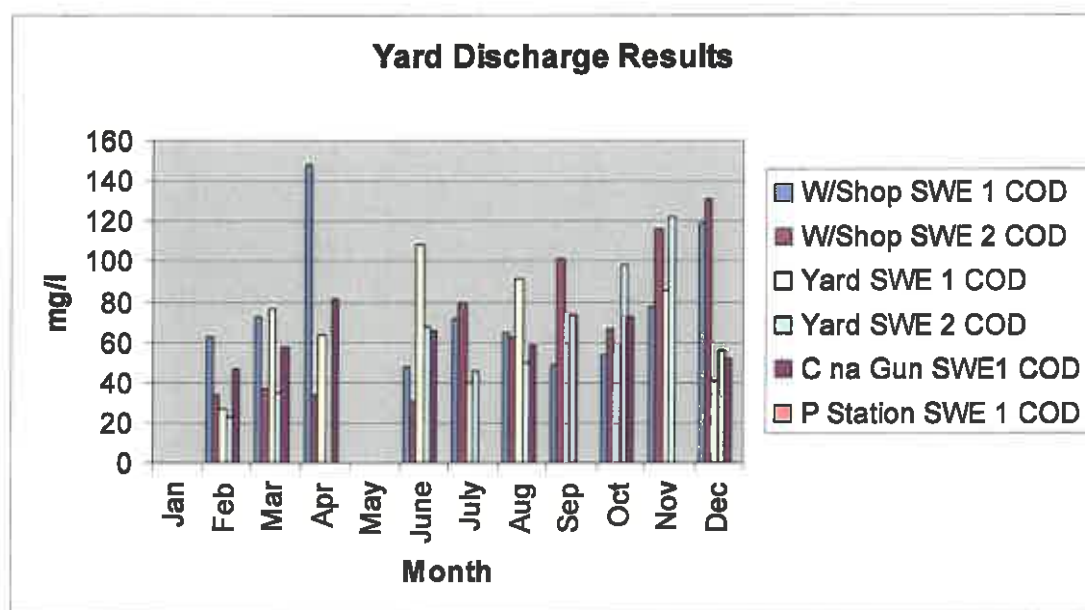
APPENDIX 2

Surface Water Discharge Monitoring Results Yards

Yard Discharge Results**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	NF	NF	NF	NF	NF	NF
Feb	63	34	27	23	47	NF
Mar	73	37	77	35	58	NF
Apr	148	34	64		81	NF
May	NF	NF	NF	NF	NF	NF
June	48	31	108	68	66	NF
July	72	80	40	46	NF	NF
Aug	65	63	91	50	59	NF
Sep	49	101	NF	74	NF	NF
Oct	54	67	NF	98	73	NF
Nov	78	116	85	122	NF	NF
Dec	119	131	41	56	52	NF

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



APPENDIX 3

Surface Water Discharge Monitoring Results Composite

Licensee: P0504-01

Year 2007

Month	pH	COD mg/l	Ammonia as N mg/l	Parameters Total Phosphorus mg/l	Suspended Solids mg/l	Total Solids mg/l	Colour Pt Co units	Flow Daily Total (litres)	COD Kg/Day	Ammonia as Kg/Day	Daily Totals Phosphorus Kg/Day	Suspended Solids Kg/Day	Total Solids Kg/Day
January 2007 SW76													
1					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
2					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
3					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
4					6	300		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
5					34	116		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
6					5	244		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
7					5	255		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
8					13	184		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
9					8	138		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
10	7.4	68	0.18	0.05	14	246	169	*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
11					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
12					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
13					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
14					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
15					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
16					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
17	7.7	48	0.02	0.08	5	350	114	*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
18					5	256		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
19					5	318		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
20					30	210		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
21					5	260		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
22					5	212		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
23					5	328		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
24	8	46	0.02	0.08	15	270	127	*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
25					20	250		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
26					5	316		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
27					41	300		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
28					5	332		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
29					5	236		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
30					5	228		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
31	8.1	104	0.11	0.05	5	358	204	5992246 2334544 36535	0.00 0.00 3.80	0.00 0.00 0.00	0.00 0.00 0.00	29.96 11.67 0.18	1414.17 532.28 13.08

IS: Insufficient amount of sample due to low flow or technical fault.

*: No flow data due to technical fault of data logger.

Licence: P0504-01

Year 2007

Month	pH	COD mg/l	Ammonia as N mg/l	Parameters Total Phosphorus mg/l	Suspended Solids mg/l	Total Solids mg/l	Colour Pt Co units	Flow Daily Total (litres)	COD Kg/Day	Ammonia as Kg/Day	Daily Totals Total Phosphorus Kg/Day	Suspended Solids Kg/Day	Total Solids Kg/Day
Feb 2007													
SW76													
1					17	396		19503	0.00	0.00	0.00	0.33	7.72
2					31	386		3589563	0.00	0.00	0.00	110.68	1377.85
3					14	406		1670235	0.00	0.00	0.00	23.38	678.12
4					44	432		1455091	0.00	0.00	0.00	64.02	628.60
5					12	428		1228943	0.00	0.00	0.00	14.75	525.99
6					IS	IS		1157157	0.00	0.00	0.00	#VALUE!	#VALUE!
7					IS	IS		1536009	0.00	0.00	0.00	#VALUE!	#VALUE!
8					IS	IS		910450	0.00	0.00	0.00	#VALUE!	#VALUE!
9					IS	IS		1902766	0.00	0.00	0.00	#VALUE!	#VALUE!
10					IS	IS		2019931	0.00	0.00	0.00	#VALUE!	#VALUE!
11					IS	IS		1254540	0.00	0.00	0.00	#VALUE!	#VALUE!
12					IS	IS		37576	0.00	0.00	0.00	#VALUE!	#VALUE!
13					IS	IS		3173816	0.00	0.00	0.00	#VALUE!	#VALUE!
14					IS	IS		2611557	0.00	0.00	0.00	#VALUE!	#VALUE!
15	8.2	49	0.73	0.05	7	347	49	*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
16					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
17					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
18					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
19					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
20					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
21					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
22	7.3	11	1.57	0.15	9	214	166	*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
23					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
24					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
25					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
26					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
27					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
28					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
29													

IS: Insufficient amount of sample due to low flow or technical fault.

*: No flow data due to technical fault of data logger.

Licence: P0504-01

Year 2007

Month	pH	COD mg/l	Ammonia as N mg/l	Parameters Total Phosphorus mg/l	Suspended Solids mg/l	Total Solids mg/l	Colour Pt/Co units	Flow Daily Total (litres)	COD Kg/Day	Ammonia as Kg/Day	Daily Totals Phosphorus Kg/Day	Suspended Solids Kg/Day	Total Solids Kg/Day
March 2007													
SW92													
1					IS	IS		17224700	0.00	0.00	0.00	#VALUE!	#VALUE!
2					IS	IS		17224700	0.00	0.00	0.00	#VALUE!	#VALUE!
3					IS	IS		17224700	0.00	0.00	0.00	#VALUE!	#VALUE!
4					IS	IS		17224700	0.00	0.00	0.00	#VALUE!	#VALUE!
5					IS	IS		17224700	0.00	0.00	0.00	#VALUE!	#VALUE!
6					9	272		17224700	0.00	0.00	0.00	155.02	4685.12
7	8	60	0.69	0.07	8	127	155	14104740	846.28	9.73	0.99	112.84	1791.30
8					20	334		9690530	0.00	0.00	0.00	193.81	3236.64
9					5	361		6506075	0.00	0.00	0.00	32.53	2348.69
10					7	340		6810178	0.00	0.00	0.00	47.67	2315.46
11					5	348		2598324	0.00	0.00	0.00	12.99	904.22
12					6	358		5707826	0.00	0.00	0.00	34.25	2043.40
13					9	354		13402930	0.00	0.00	0.00	120.63	4744.64
14	7.4	57	0.42	0.05	5	150	148	11441390	652.16	4.81	0.57	57.21	1716.21
15					7	274		10158330	0.00	0.00	0.00	71.11	2783.38
16					5	278		2836530	0.00	0.00	0.00	14.18	788.56
17					5	272		2731520	0.00	0.00	0.00	13.66	742.97
18					5	288		2846126	0.00	0.00	0.00	14.23	819.68
19					5	292		6358975	0.00	0.00	0.00	31.79	1856.82
20					5	268		11258110	0.00	0.00	0.00	56.29	3017.17
21		58	0.4	0.05	5	274	135	5698388	330.51	2.28	0.28	28.49	1561.36
22					5	344		3057518	0.00	0.00	0.00	15.29	1051.79
23					5	350		3240870	0.00	0.00	0.00	16.20	1134.30
24					14	350		2902954	0.00	0.00	0.00	40.64	1016.03
25					5	376		5556464	0.00	0.00	0.00	27.78	2089.23
26					5	368		5598661	0.00	0.00	0.00	28.00	2060.68
27					6	342		5581134	0.00	0.00	0.00	33.49	1906.75
28	8.4	60	0.5	0.05	11	388	113	5577879	334.67	2.79	0.28	61.36	2164.22
29					13	304		6877172	0.00	0.00	0.00	89.40	2090.66
30					5	358		10783980	0.00	0.00	0.00	53.92	3860.66
31					6	348		11049720	0.00	0.00	0.00	66.30	3845.30

1S: Insufficient amount of sample due to low flow or technical fault.

*: No flow data due to technical fault of data logger.

Licence: P0504-01

Year: 2007

Month	pH	COD mg/l	Ammonia as N mg/l	Parameters			Colour Pt Co units	Flow Daily Total (litres)	COD Kg/Day	Ammonia as Kg/Day	Daily Totals		Total Solids
				Total Phosphorus mg/l	Suspended Solids mg/l	Total Solids mg/l					Phosphorus Kg/Day	Suspended Solids Kg/Day	
April 2007 SW76													
1					5	430		6619104	0.00	0.00	0.00	33.10	2846.21
2					5	404		7251198	0.00	0.00	0.00	36.26	2929.48
3					10	396		10825010	0.00	0.00	0.00	108.25	4286.70
4	7.8	62	0.35	0.05	9	380	90	8759725	543.10	3.07	0.44	78.84	3328.70
5								7393102	0.00	0.00	0.00	0.00	0.00
6					5	409		2791459	0.00	0.00	0.00	13.96	1141.71
7					5	412		438104	0.00	0.00	0.00	2.19	180.50
8					5	406		412438	0.00	0.00	0.00	2.06	167.45
9					5	416		371651	0.00	0.00	0.00	1.86	154.61
10					5	402		352477	0.00	0.00	0.00	1.76	141.70
11	8.2	53	0.28	0.05	5	420	89	365693	19.38	0.10	0.02	1.83	153.59
12					5	460		368393	0.00	0.00	0.00	1.84	169.46
13					5	464		362482	0.00	0.00	0.00	1.91	177.47
14					5	462		351086	0.00	0.00	0.00	1.76	162.20
15					5	460		312540	0.00	0.00	0.00	1.58	143.77
16					5	470		307138	0.00	0.00	0.00	1.54	144.35
17					5	457		366338	0.00	0.00	0.00	1.83	167.42
18	8	40	0.36	0.05	5	466	69	386634	15.47	0.14	0.02	1.93	180.17
19					IS	IS		382428	0.00	0.00	0.00	#VALUE!	#VALUE!
20					IS	IS		381410	0.00	0.00	0.00	#VALUE!	#VALUE!
21					IS	IS		358127	0.00	0.00	0.00	#VALUE!	#VALUE!
22					IS	IS		330387	0.00	0.00	0.00	#VALUE!	#VALUE!
23					IS	IS		316664	0.00	0.00	0.00	#VALUE!	#VALUE!
24					IS	IS		278106	0.00	0.00	0.00	#VALUE!	#VALUE!
25	8.1	62	0.4	0.05	9	386	119	399331	24.76	0.16	0.02	3.59	154.14
26					IS	IS		1673610	0.00	0.00	0.00	#VALUE!	#VALUE!
27					IS	IS		509981	0.00	0.00	0.00	#VALUE!	#VALUE!
28					IS	IS		571914	0.00	0.00	0.00	#VALUE!	#VALUE!
29					IS	IS		606175	0.00	0.00	0.00	#VALUE!	#VALUE!
30								642428	0.00	0.00	0.00	0.00	0.00
									0.00	0.00	0.00	0.00	0.00

IS: Insufficient amount of sample due to low flow or technical fault.

*: No flow data due to technical fault of data logger.

Licence: P0504-01

Year 2007

Month	pH	COD mg/l	Ammonia as N mg/l	Parameters		Suspended Solids mg/l	Total Solids mg/l	Colour Pt Co units	Flow Daily Total (litres)	COD kg/Day	Ammonia as kg/Day	Daily Totals		Suspended Solids kg/Day	Total Solids kg/Day
				Phosphorus mg/l	Phosphorus mg/l							Phosphorus kg/Day	Phosphorus kg/Day		
May 2007 SW92															
1						IS	IS		639320	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
2	8	38	0.02	0.05		5	414	73	685438	26.05	0.01	0.03	3.43	283.77	
3						IS	IS		656603	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
4						IS	IS		547745	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
5						IS	IS		134562	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
6						IS	IS		127570	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
7						IS	IS		133057	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
8						IS	IS		108037	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
9	8.1	79	0.53	0.05		7	354	123	94380	7.46	0.05	0.00	0.66	33.41	
10						IS	IS		97528	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
11						IS	IS		79865	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
12						IS	IS		85557	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
13						IS	IS		80113	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
14						IS	IS		74674	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
15						IS	IS		87402	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
16						IS	IS		77171	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
17						IS	IS		77772	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
18						IS	IS		699470	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
19						IS	IS		280327	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
20						IS	IS		299782	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
21						IS	IS		337381	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
22						IS	IS		352368	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
23	8	65	0.21	0.05		5	382	94	448835	29.17	0.09	0.02	2.24	171.45	
24						13	372		433626	0.00	0.00	0.00	5.64	161.31	
25						5	348		1031127	0.00	0.00	0.00	5.16	358.83	
26						9	350		1541409	0.00	0.00	0.00	13.87	539.49	
27						5	358		1465304	0.00	0.00	0.00	7.33	524.58	
28						6	322		1784911	0.00	0.00	0.00	10.71	574.74	
29						7	382		2407311	0.00	0.00	0.00	16.85	919.59	
30	8.7	50	0.05	0.07		5	350	93	2175194	108.76	0.11	0.15	10.88	761.32	
31						IS	IS		1876062	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!

IS: Insufficient amount of sample due to low flow or technical fault.

*: No flow data due to technical fault of data logger.

Licence: P0504-01

Year 2007

Month	pH	COD mg/l	Ammonia as N mg/l	Parameters Total Phosphorus mg/l	Suspended Solids mg/l	Total Solids mg/l	Colour Pt Co units	Flow Daily Total (litres)	COD Kg/Day	Ammonia as Kg/Day	Daily Totals Total Phosphorus Kg/Day	Suspended Solids Kg/Day	Total Solids Kg/Day
June 2007 SW92													
1					IS	IS		1840431	0.00	0.00	0.00	#VALUE!	#VALUE!
2					IS	IS		1706029	0.00	0.00	0.00	#VALUE!	#VALUE!
3					IS	IS		2587616	0.00	0.00	0.00	#VALUE!	#VALUE!
4					IS	IS		2463028	0.00	0.00	0.00	#VALUE!	#VALUE!
5					IS	IS		2078367	0.00	0.00	0.00	#VALUE!	#VALUE!
6	8.3	49	0.18	0.08	8	449	80	1771944	86.83	0.32	0.14	14.18	795.80
7					IS	IS		1845060	0.00	0.00	0.00	#VALUE!	#VALUE!
8					IS	IS		898579	0.00	0.00	0.00	#VALUE!	#VALUE!
9					IS	IS		406984	0.00	0.00	0.00	#VALUE!	#VALUE!
10					IS	IS		561171	0.00	0.00	0.00	#VALUE!	#VALUE!
11					IS	IS		224919	0.00	0.00	0.00	#VALUE!	#VALUE!
12					IS	IS		92975	0.00	0.00	0.00	#VALUE!	#VALUE!
13					IS	IS		252659	0.00	0.00	0.00	#VALUE!	#VALUE!
14	7.9	62	0.12	0.05	7	381	108	1740754	107.93	0.21	0.08	12.19	663.23
15					IS	IS		678648	0.00	0.00	0.00	#VALUE!	#VALUE!
16					IS	IS		382432	0.00	0.00	0.00	#VALUE!	#VALUE!
17					IS	IS		301706	0.00	0.00	0.00	#VALUE!	#VALUE!
18					IS	IS		266807	0.00	0.00	0.00	#VALUE!	#VALUE!
19					IS	IS		329037	0.00	0.00	0.00	#VALUE!	#VALUE!
20	7.4	94	0.56	0.05	12	148	222	303719	28.55	0.17	0.02	3.64	44.95
21					9	324		2153153	0.00	0.00	0.00	19.38	697.62
22					9	346		2473311	0.00	0.00	0.00	22.26	855.77
23					10	340		751783	0.00	0.00	0.00	7.52	255.61
24					IS	IS		276355	0.00	0.00	0.00	#VALUE!	#VALUE!
25					IS	IS		262485	0.00	0.00	0.00	#VALUE!	#VALUE!
26					IS	IS		371674	0.00	0.00	0.00	#VALUE!	#VALUE!
27					IS	IS		470325	0.00	0.00	0.00	#VALUE!	#VALUE!
28					IS	IS		225056	0.00	0.00	0.00	#VALUE!	#VALUE!
29					IS	IS		258751	0.00	0.00	0.00	#VALUE!	#VALUE!
30					IS	IS		241392	0.00	0.00	0.00	0.00	0.00

IS: Insufficient amount of sample due to low flow or technical fault.

*: No flow data due to technical fault of data logger.

Licence: P0504-01

Year 2007

Month	pH	COD mg/l	Ammonia as N mg/l	Parameters		Suspended Solids mg/l	Total Solids mg/l	Colour Pt Co units	Flow Daily Total (litres)	COD Kg/Day	Ammonia as Kg/Day	Daily Totals		Suspended Solids Kg/Day	Total Solids Kg/Day
				Total Phosphorus mg/l								Phosphorus Kg/Day			
July 2007															
SW92															
1						IS	IS		232757	0.00	0.00	0.00		#VALUE!	#VALUE!
2						IS	IS		1621476	0.00	0.00	0.00		#VALUE!	#VALUE!
3						IS	IS		5212042	0.00	0.00	0.00		#VALUE!	#VALUE!
4	7.3	77	0.11	0.05		5	277	210	6780041	522.06	0.75	0.34		33.90	1878.07
5						IS	IS		3584158	0.00	0.00	0.00		#VALUE!	#VALUE!
6						5	276		959147	0.00	0.00	0.00		4.80	264.72
7						40	280		3341904	0.00	0.00	0.00		133.68	935.73
8						5	306		3773221	0.00	0.00	0.00		18.87	1154.61
9						28	252		917743	0.00	0.00	0.00		25.70	231.27
10						17	244		3748949	0.00	0.00	0.00		63.73	914.74
11	8.1	94	0.37	0.05		18	272	230	10693280	1005.17	3.86	0.53		192.48	2908.57
12						5	306		8539510	0.00	0.00	0.00		42.70	2613.09
13						11	388		5056010	0.00	0.00	0.00		55.62	1961.73
14						5	352		3459411	0.00	0.00	0.00		17.30	1217.71
15						5	334		3404105	0.00	0.00	0.00		17.02	1136.97
16						IS	IS		1108494	0.00	0.00	0.00		#VALUE!	#VALUE!
17						5	350		979451	0.00	0.00	0.00		4.90	342.81
18	6	79	0.03	0.05		6	312	189	626504	49.49	0.02	0.03		3.76	195.47
19						6	312		613409	0.00	0.00	0.00		3.68	191.38
20						9	333		3752622	0.00	0.00	0.00		33.77	1249.62
21						IS	IS		4056550	0.00	0.00	0.00		#VALUE!	#VALUE!
22						5	298		783146	0.00	0.00	0.00		3.92	233.38
23						IS	IS		508831	0.00	0.00	0.00		#VALUE!	#VALUE!
24						IS	IS		533710	0.00	0.00	0.00		#VALUE!	#VALUE!
25	7.8	53	0.02	0.05		13	256	164	446800	23.68	0.01	0.02		5.81	114.38
26						5	236		111049	0.00	0.00	0.00		0.56	26.21
27						6	362		5696511	0.00	0.00	0.00		34.18	2062.14
28						IS	IS		5228798	0.00	0.00	0.00		#VALUE!	#VALUE!
29						5	332		1665741	0.00	0.00	0.00		8.33	553.03
30						6	404		585948	0.00	0.00	0.00		3.52	236.72
31						5	412		504769	0.00	0.00	0.00		2.52	207.96

IS: Insufficient amount of sample due to low flow or technical fault.

*: No flow data due to technical fault of data logger.

Licence: P0504-01													
Year 2007													
Month	pH	COD mg/l	Ammonia as N mg/l	Parameters Total Phosphorus mg/l	Suspended Solids mg/l	Total Solids mg/l	Colour Pt/Co units	Flow Daily Total (litres)	COD Kg/Day	Ammonia as Kg/Day	Daily Totals Total Phosphorus Kg/Day	Suspended Solids Kg/Day	Total Solids Kg/Day
August 2007 SW92													
1					IS	IS		481454	0.00	0.00	0.00	#VALUE!	#VALUE!
2					IS	IS		325583	0.00	0.00	0.00	#VALUE!	#VALUE!
3					IS	IS		121456	0.00	0.00	0.00	#VALUE!	#VALUE!
4					IS	IS		130862	0.00	0.00	0.00	#VALUE!	#VALUE!
5					17	194		121865	0.00	0.00	0.00	2.07	23.64
6					5	246		4549353	0.00	0.00	0.00	22.75	1119.14
7					IS	IS		4480417	0.00	0.00	0.00	#VALUE!	#VALUE!
8	7.8	56	0.62	0.05	5	384	128	728513	40.80	0.45	0.04	3.64	279.75
9					5			603728	0.00	0.00	0.00	3.02	0.00
10					14			577864	0.00	0.00	0.00	8.09	0.00
11					5			544933	0.00	0.00	0.00	2.72	0.00
12					5	268		582390	0.00	0.00	0.00	2.91	156.08
13						307		1839843	0.00	0.00	0.00	0.00	564.77
14					12	276		802363	0.00	0.00	0.00	9.63	221.45
15	8	85	0.66	0.06	7	264	217	1316249	111.88	0.87	0.08	9.21	347.49
16					17	227		2403163	0.00	0.00	0.00	40.85	545.52
17					16	216		820034	0.00	0.00	0.00	13.12	177.13
18					8	208		645819	0.00	0.00	0.00	5.17	134.35
19					5	310		7072354	0.00	0.00	0.00	35.36	2192.43
20					5	230		5388681	0.00	0.00	0.00	26.94	1239.40
21					5	260		2341474	0.00	0.00	0.00	11.71	608.78
22	7.9	72	0.62	0.05	5	348	204	146292	10.53	0.09	0.01	0.73	50.91
23					5	388		146292	0.00	0.00	0.00	0.73	56.76
24					6	386		146292	0.00	0.00	0.00	0.88	56.47
25					22	422		146292	0.00	0.00	0.00	3.22	61.74
26					5	426		146292	0.00	0.00	0.00	0.73	62.32
27					7	404		146292	0.00	0.00	0.00	1.02	59.10
28					5	454		146292	0.00	0.00	0.00	0.73	66.42
29	8.1	65	0.49	0.08	6	440	118	146292	9.51	0.07	0.01	0.88	64.37
30								146292	0.00	0.00	0.00	0.00	0.00
31								146292	0.00	0.00	0.00	0.00	0.00

IS: Insufficient amount of sample due to low flow or technical fault.

*: No flow data due to technical fault of data logger.

Licence: P0504-01

Year 2007

Month	pH	COD mg/l	Ammonia as N mg/l	Parameters Total Phosphorus mg/l	Suspended Solids mg/l	Total Solids mg/l	Colour Pt Co units	Flow Daily Total (litres)	COD kg/Day	Ammonia as kg/Day	Daily Totals Total Phosphorus kg/Day	Suspended Solids kg/Day	Total Solids kg/Day
Sept 2007													
SW92													
1					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
2					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
3					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
4					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
5					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
6					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
7					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
8					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
9					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
10					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
11					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
12	7.8	48	0.4	0.05	5	428	89	146292	7.02	0.06	0.01	0.88	62.61
13					5	354		146292	0.00	0.00	0.00	0.73	51.79
14					5	364		146292	0.00	0.00	0.00	0.73	53.25
15					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
16					5	356		146292	0.00	0.00	0.00	0.73	52.08
17					7	362		146292	0.00	0.00	0.00	1.02	52.96
18					5	362		146292	0.00	0.00	0.00	0.73	52.96
19	8.3	53	0.36	0.06	8	380	103	146292	7.75	0.05	0.01	1.17	55.59
20					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
21					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
22					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
23					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
24					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
25					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
26					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
27					5	384		146292	0.00	0.00	0.00	0.73	56.18
28					5	385		146292	0.00	0.00	0.00	0.73	56.47
29					8	358		146292	0.00	0.00	0.00	1.17	52.37
30					16	352		146292	0.00	0.00	0.00	2.34	51.49
									0.00	0.00	0.00	0.00	0.00

IS: Insufficient amount of sample due to low flow or technical fault.

*: No flow data due to technical fault of data logger.

Licence: P0504-01

Year 2007

Month	pH	COD mg/l	Ammonia as N mg/l	Parameters		Total Solids mg/l	Suspended Solids mg/l	Colour Pt Co units	Flow Daily Total (litres)	COD Kg/Day	Ammonia as Kg/Day	Daily Totals		Suspended Solids Kg/Day	Total Solids Kg/Day
				Total Phosphorus mg/l								Total Phosphorus Kg/Day			
Oct 2007															
SW92															
1						IS	IS		146292	0.00	0.00	0.00		#VALUE!	#VALUE!
2						IS	IS		146292	0.00	0.00	0.00		#VALUE!	#VALUE!
3						IS	IS		146292	0.00	0.00	0.00		#VALUE!	#VALUE!
4						IS	IS		146292	0.00	0.00	0.00		#VALUE!	#VALUE!
5						IS	IS		146292	0.00	0.00	0.00		#VALUE!	#VALUE!
6						IS	IS		146292	0.00	0.00	0.00		#VALUE!	#VALUE!
7						IS	IS		146292	0.00	0.00	0.00		#VALUE!	#VALUE!
8						IS	IS		146292	0.00	0.00	0.00		#VALUE!	#VALUE!
9						IS	IS		146292	0.00	0.00	0.00		#VALUE!	#VALUE!
10						IS	IS		146292	0.00	0.00	0.00		#VALUE!	#VALUE!
11						IS	IS		146292	0.00	0.00	0.00		#VALUE!	#VALUE!
12	7.8	48	0.4	0.05		428	6	89	146292	7.02	0.06	0.01	0.88	0.88	62.61
13						354	5		146292	0.00	0.00	0.00	0.73	0.73	51.79
14						364	5		146292	0.00	0.00	0.00	0.73	0.73	53.25
15						IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
16						356	5		146292	0.00	0.00	0.00	0.73	0.73	52.08
17						362	7		146292	0.00	0.00	0.00	1.02	1.02	52.96
18						362	5		146292	0.00	0.00	0.00	0.73	0.73	52.96
19	8.3	53	0.36	0.06		380	8	103	146292	7.75	0.05	0.01	1.17	1.17	55.59
20						IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
21						IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
22						IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
23						IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
24						IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
25						IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
26						IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!	#VALUE!
27						384	5		146292	0.00	0.00	0.00	0.73	0.73	56.18
28						386	5		146292	0.00	0.00	0.00	0.73	0.73	56.47
29						358	8		146292	0.00	0.00	0.00	1.17	1.17	52.37
30						352	16		146292	0.00	0.00	0.00	2.34	2.34	51.49
31									146292	0.00	0.00	0.00	0.00	0.00	0.00

IS: Insufficient amount of sample due to low flow or technical fault.

*: No flow data due to technical fault of data logger.

Licence: P0504-01

Year 2007

Month	pH	COD mg/l	Ammonia as N mg/l	Parameters Total Phosphorus mg/l	Suspended Solids mg/l	Total Solids mg/l	Colour Pt Co units	Flow Daily Total (litres)	COD Kg/Day	Ammonia as Kg/Day	Daily Totals Total Phosphorus Kg/Day	Suspended Solids Kg/Day	Total Solids Kg/Day
Nov 2007 SW92					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
1					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
2					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
3					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
4					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
5					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
6					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
7					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
8	8.1	46	2.93	0.11	23	374	60	146292	6.73	0.43	0.02	3.36	54.71
9					IS	IS		146292	0.00	0.00	0.00	#VALUE!	#VALUE!
10					IS	IS		155408	0.00	0.00	0.00	#VALUE!	#VALUE!
11					IS	IS		205019	0.00	0.00	0.00	#VALUE!	#VALUE!
12					IS	IS		208189	0.00	0.00	0.00	#VALUE!	#VALUE!
13					IS	IS		94693	0.00	0.00	0.00	#VALUE!	#VALUE!
14	7.7	37	0.26	0.05	5	236	80	*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
15					5	332		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
16					5	346		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
17					5	332		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
18					7	270		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
19					47	274		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
20					27	318		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
21	8.1	75	0.72	0.05	44	290	120	*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
22					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
23					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
24					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
25					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
26					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
27					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
28					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
29	7.6	103	0.83	0.05	37	258	152	*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
30					29	224		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
									0.00	0.00	0.00	0.00	0.00

IS: Insufficient amount of sample due to low flow or technical fault.

*: No flow data due to technical fault of data logger.

Licence: P0504-01

Year 2007

Month	pH	COD mg/l	Ammonia as N mg/l	Parameters Total Phosphorus mg/l	Suspended Solids mg/l	Total Solids mg/l	Colour Pt Co units	Flow Daily Total (litres)	COD Kg/Day	Ammonia as Kg/Day	Daily Totals Total Phosphorus Kg/Day	Suspended Solids Kg/Day	Total Solids Kg/Day
Dec 2007													
SW92													
1	6				12	262		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
2					28	194		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
3					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
4					12	318		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
5	7.6	86	0.87	0.05	36	242	175	*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
6					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
7					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
8					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
9					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
10					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
11					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
12					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
13	7.6	61	0.39	0.05	5	170	137	*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
14					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
15					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
16					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
17					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
18					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
19					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
20	7.6	64	0.87	0.05	5	246	77	*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
21					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
22					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
23					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
24					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
25					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
26					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
27					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
28					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
29					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
30					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
31					IS	IS		*	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

IS: Insufficient amount of sample due to low flow or technical fault.

*: No flow data due to technical fault of data logger.

APPENDIX 4

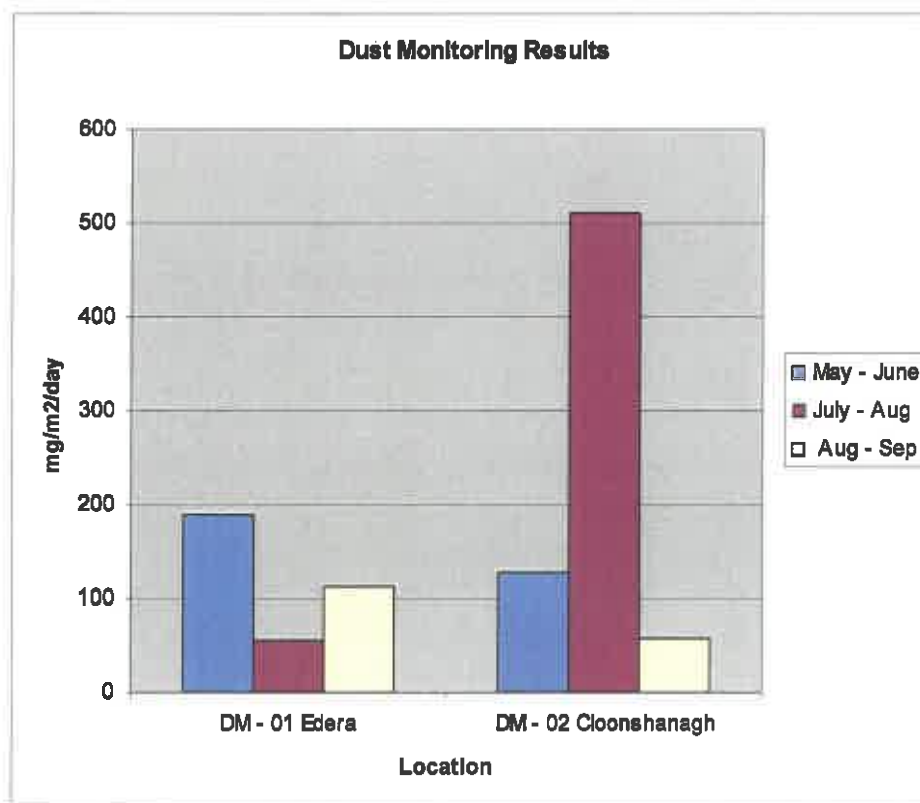
Dust Monitoring Results.

Dust Monitoring Results

Licence:P0504-01

**Works:Mt Dillon
2007**

Sample Period	DM - 01 Edera	DM - 02 Cloonshanagh
May - June	189	128
July - Aug	56	511
Aug - Sep	113	57



APPENDIX 5

De-silting Programme Review.

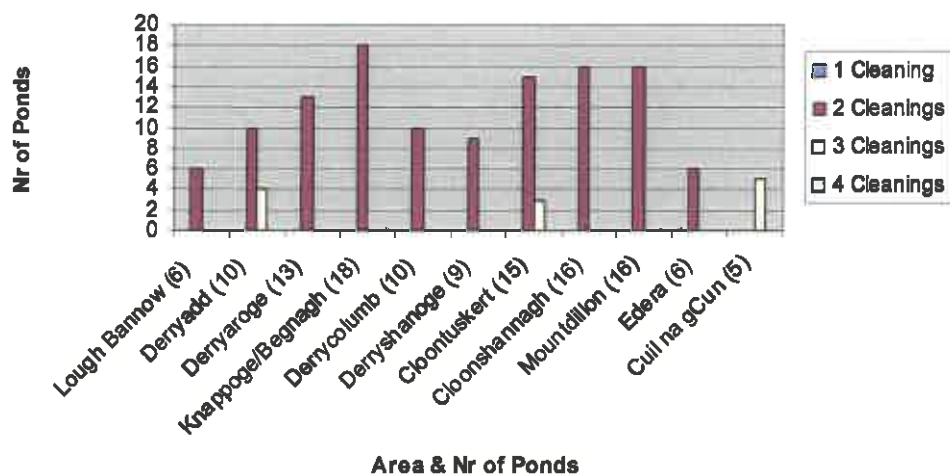
Siltpond Cleaning Programme

IPPC Licence: P0504-01

Works: Mt Dillon

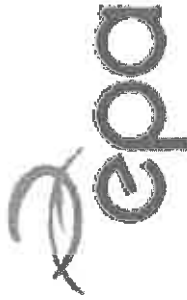
Bog Area & Nr Ponds	1 Cleaning	2 Cleanings	3 Cleanings	4 Cleanings
Lough Bannow (6)		6		
Derryadd (10)		10	4	
Derryaroge (13)		13		
Knappoge/Begnagh (18)		18		
Derrycolumb (10)		10		
Derryshanoge (9)		9		
Cloontuskert (15)		15	3	
Cloonshannagh (16)		16		
Mountdillon (16)		16		
Edera (6)		6		
Cuil na gCun (5)			5	

Siltpond Cleaning Records



APPENDIX 6

AER & PRTR Data



Environmental Protection Agency

AER Returns Worksheet

Version 1.0.4

REFERENCE YEAR	2007
----------------	------

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
	The extraction of peat in the course of business which involves an 1 area exceeding 50 hectares.

Address 1	Mountdillon
Address 2	Lanesboro
Address 3	Co Longford
City/Town/Village	
Postal Code	
County	
Country	Ireland
Coordinates of Location	20472688
River Basin District	
NACE Code	0892
Main Economic Activity	Extraction of peat
Production Volume	524977
Number of Installations	19
Number of Operating Hours in Year	2232
Number of Employees	142
User Feedback/Comments	
Web Address	www.bordnamona.ie

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
-----------------	---------------

3. SOLVENTS DIRECTIVE

Is it applicable?	No
Have you been granted an exemption ?	No
Reason for exemption	

4.1 RELEASES TO AIR

[PRINT] : P0504 | Facility Name : Bord Na Mona Energy Limited | Filename : P0504_2007-4.xls | Return Year : 2007 |

28/05/2008 13:50

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT	No. Annex II	Name	METHOD		Emission Point 1	QUANTITY		
			MC/E	Method Code		T (Total)	A (Accidental)	F (Fugitive)
				Designation or Description		0	0	0

SECTION B : REMAINING PRTR POLLUTANTS

POLLUTANT	No. Annex II	Name	METHOD		Emission Point 1	QUANTITY		
			MC/E	Method Code		T (Total)	A (Accidental)	F (Fugitive)
				Designation or Description		0	0	0

SECTION C : LICENSED POLLUTANTS

POLLUTANT	No. Annex II	Name	METHOD		Emission Point 1	QUANTITY		
			MC/E	Method Code		T (Total)	A (Accidental)	F (Fugitive)
				Designation or Description		0	0.134	0
				VOI 2118 Blast 2/Part 2		0	0.134	0

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. Please complete the table below:

Landfill: Please enter summary data on the quantities of methane flared and / or utilised	Bord Na Mona Energy Limited	
	T (Total kg/Year)	MC/E
Methane flared Methane utilised in engines	Method Used	
	Method Code	Designation or Description
	Facility Total Capacity m³/hour	

100

RELEASE TO WATERS									
POLLUTANT	NAME	LOC-E	Method Code	Method Used	SWP	SWP1	SWP5	SWP6	SWP7
Pollutant No.	Name	LOC-E	Method Code	Destination or Description G/19 Based on ARIA 1968 20th Edition, Method 2540C	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4	
40	Exempted State	E	OTH		4709.9	10278.7	14476.5	2861.8	

4.3 RELEASES TO WASTEWATER OR SEWER

PRTR# : P0504 | Facility Name : Bord Na Mona Energy Limited | Filename : P0504_2007-1.xls | Ret

28/03/2008 13:51

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER									
POLLUTANT		METHOD		Emission Point 1		QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Method Used	Description or Description	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
						0	0	0	0

SECTION B : LICENSED POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER									
POLLUTANT		METHOD		Emission Point 1		QUANTITY			
Pollutant No.	Name	M/C/E	Method Code	Method Used	Description or Description	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
						0	0	0	0

4.4 RELEASES TO LAND

| PRTR#: P0504 | Facility Name : Bord Na Mona Energy Limited | Filename : P0504_2007-4.xls | Return Year : 2007 |

28/03/2008 13:51

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND					QUANTITY	
No. Annex II	POLLUTANT	Name	M/C/E	METHOD: Method Used Designation or Description	Emission Point 1	T (Total) KG/Year
						A (Accidental) KG/Year
					0	0

SECTION B : LICENSED POLLUTANTS

RELEASES TO LAND					QUANTITY	
Pollutant No.	POLLUTANT	Name	M/C/E	METHOD: Method Used Designation or Description	Emission Point 1	T (Total) KG/Year
						A (Accidental) KG/Year
					0	0

5. ON-SITE TREATMENT & OFF-SITE TRANSFERS OF WASTE

Transfer Destination Within the Country	European Waste Code	Quantity T/Year	Description of Waste	Waste Treatment Operation	Method Used		Name and Licence / Permit No. of Recoverer / Disposer / Broker	Address of Recoverer / Disposer / Broker	Name and Address of Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)	Licence / Permit No. of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
					IM/CE	Weighted				
Within the Country	20 03 01	No	15.86 Municipal	D1	M	Weighted	Mullacoye Ltd SIC152/2002 Limerick Environmentalists / WP 2004 / 30	Drumlish Co Longford		
Within the Country	02 01 04	No	472.82 Waste Plastic	R5	M	Weighted	Offsite in Ireland Hammond Lane 050 / OVI	Dundalk Co Louth		
Within the Country	17 04 07	No	241.84 Scrap Metal	R4	M	Weighted	182 / 04	Athlone Co Westmeath		
Within the Country	18 01 03	No	4.84 Pallets	R6	M	Weighted	Offsite in Ireland Kilma Ltd WP / TN / 24	Thurles Co Tipperary		
Within the Country	01 01 02	No	1137.96 Slag and Cleanings	D1	E	Volume Calculation	Offsite in Ireland Bord na Mona PPS04-01	Mt Dillon Limerick Co Longford		
Within the Country	01 04 99	No	953.17 Peat Screenings	D1	M	Weighted	Offsite in Ireland Bord na Mona PPS04-01	Mt Dillon Limerick Co Longford		
Within the Country	13 02 05	Yes	14.5 Waste Oil	R9	C	Volume Calculation	Offsite in Ireland Envia Ireland Ltd 184-1	Portlaoise Co Laois	Envia Ireland Portlaoise Co Laois	184-1
Within the Country	16 01 07	Yes	0.01 Oil Filters	R4	C	Volume Calculation	Offsite in Ireland Envia Ireland Ltd 184-1	Portlaoise Co Laois	Envia Ireland Portlaoise Co Laois	184-1
To Other Countries	15 02 02	Yes	0.02 Oil Rags	R1	C	Volume Calculation	Abroad Envia Ireland Ltd 184-1	Portlaoise Co Laois	Kreuztal, Lunderscheidt, Germany	E 97065037
Within the Country	16 08 01	Yes	8.48 Lead Acid Batteries	R6	M	Weighted	Offsite in Ireland Envia Ireland Ltd 184-1	Portlaoise Co Laois	Envia Ireland Portlaoise Co Laois	184-1
Within the Country	16 05 02	Yes	0.022 Ni Cad Batteries	R4	M	Weighted	Offsite in Ireland Envia Ireland Ltd 184-1	Portlaoise Co Laois	Envia Ireland Portlaoise Co Laois	184-1
Within the Country	11 01 13	Yes	1.07 Parts Wash Waste	R11	C	Volume Calculation	Offsite in Ireland Safety Klean W00199-01	Tallaght Co Dublin	Safety Klean Tallaght Dublin W00199-01	

