

Annual Environmental Report 2011

Licence Registration No.: W0198-01

Licencee: Bord na Móna Plc.

Location of Activity: Kilberry, Athy, Co. Kildare.

Attention: Office of Environmental Enforcement
Environmental Protection Agency
P.O. Box 3000
Johnstown Castle
Co. Wexford

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SECTION 1

INTRODUCTION

1.1 INTRODUCTION

The following document represents the Annual Environmental Report (AER) for Bord na Móna Kilberry Compost facility for the period January 2011 - December 2011. Detailed within this report is a summary of all monitoring, and any activities and on-going improvements at the facility during this period that has had an influence on the environmental performance of the company.

Through the continued compliance with the conditions of their Waste licence register No. W0198-01, Bord na Móna continues to express their commitment of environmental improvement through out the site.

An Environmental and Quality Management System is established at the facility, which incorporates procedures of operational activities on site, emergency preparedness and response, reporting, dealing with unacceptable wastes and an public access to the site and site's environmental performance. Through the on-going achievement and reviewing of the objectives and targets, Bord na Móna facilitate on-going environmental improvements.

Bord na Móna's commitment is expressed in the company's Environmental Management policy, as given overleaf.

1.1.2 – Environmental Policy



Environmental Policy



Introduction

A licence from the Environmental Protection Agency (WI 198-1) was granted on the 16th of December 2004. This licence is for the construction and operation of a Composting Facility at Kilberry, Athy, Co. Kildare. The quantity of waste to be accepted is 50,000 tonnes in the first year rising to 96,000 tonnes by the 5th year. Non-hazardous biodegradable wastes (Shredded Green waste, Brewery By-Product, Sawdust, Bark and Cocoa Husk) will be accepted at this facility.

The process leading to the production of usable, composted material will require the completion of a series of stages as follows, acceptance procedures and tipping, mixing and formulation of windrows, turning / composting, screening of stabilised material and shredding and re-use of oversize material. The wastes are combined together to form windrows for composting. The average composting period will be 10 weeks during which time the composting process will stabilise a range of organic waste materials / by-products which will then be incorporated into horticultural growing media produced on the adjoining site.

Policy

Environmental care is a Bord na Móna core value. BnM seeks to be recognised in the compost supply business as a leader in terms of environmental care. Bord na Móna's environmental programmes shall be an integrated approach focused on continuous improvement. The environmental programmes in Bord na Móna will seek to achieve the following:

- Ensure compliance with the requirements of the EPA Waste Licence and National/European legislation.
- Review Environmental performance and establish environmental objectives and targets on an annual basis to improve the environmental performance of our composting facility
- Minimise potential negative environmental impacts through activities that are designed for the prevention of pollution
- Encourage the involvement of employees through training and awareness programmes to promote and ensure an environmentally friendly workplace.
- Audit practices and programmes to help ensure continuous improvement

The company values and promotes environmental leadership, responsibility and innovation in the management of all company facilities and operations. Management team are expected to provide sound environmental leadership, to maintain appropriate records and demonstrate compliance with programmes and practices.

Authorised as of November 25th 2009

Michael Delaney
General Manager

1.2 SITE DESCRIPTION

1.2.1 Site Location

The proposed development is located on the eastern portion of Kilberry townland, approximately 4 km north of Athy, Co. Kildare. It is located along the R417 between Athy and Monasterevin.



Regional Location of Bord na Mona Kilberry Compost Site

The total area the site occupies is ca. 2.5 hectares. The topography of the area is flat peat land and agricultural land with a gradual rise to the north. The land on the site is relatively level with a fall of 1:200 over the total site from south to north. The surrounding land is a mixture of agricultural, forestry and peat land with the southern boundary adjoining the Bord na Móna Moss Peat production site.

1.2.1 General

A licence from the Environmental Protection Agency (W0198-01) was granted on the 16th of December 2004. This licence was for the construction and operation of a Composting Facility at Kilberry, Athy, Co. Kildare. The quantity of waste to be accepted was 50,000 tonnes in the first year rising to 96,000 tonnes by the 5th year. Non-hazardous biodegradable wastes (Shredded Green waste, Brewery By-Product, Sawdust, Bark and Cocoa Husk) were the initial waste types accepted at this facility. In the intervening years a number of additional waste streams have been identified and added to the waste licence with agreement from the EPA. The current waste list is as follows:

- Shredded / Unshredded Green Waste
- Brewery By-Product
- Sawdust
- Bark
- Cocoa Husk
- Spent Mushroom Compost
- Christmas Trees
- Wood Pulp Sludge
- Fruit and Vegetables
- Dairy Products Sludge

1.2.2 Method of Working

1.2.2.1 Composting Process

The process leading to the production of usable, composted material requires the completion of a series of stages as follows:

1. Acceptance procedures and tipping
2. Mixing and formulation of windrows
3. Turning / Composting
4. Screening of stabilised material
5. Shredding and re-use of oversize material

1. Acceptance Procedures:

All vehicles entering the site firstly report to compost coordinator. A delivery note will accompany each vehicle detailing:

- Vehicle registration number
- Driver / Company
- Material type and origin
- Quantity of waste

These details will be entered on to the Bord na Móna MRP system along with the recorded weight of the vehicle. A hard copy of this information will be issued to the driver as a POD (Proof of Delivery).

2. Discharge/Mixing and formation of windrows.

On completion of acceptance procedures vehicles will be directed to a specific tipping area in the composting facility. Where they will tip the feedstock in such a fashion as to provide a linear strip of material. Unshredded material is directed to the shredder in phase 2.

3. Turning / Composting

The current average composting period is 12 weeks, during which time the piles are turned approximately 20 times as follows:

Week 1 - 2	4 times per week
Week 3 – 6	2 times per week
Week 7-10	1 turn per week

A series of parameters are monitored during the composting cycle as follows:

- Temperature (using deep probes)
- CO₂ evolution (an index of microbial activity)
- Moisture content

The results of ongoing monitoring can trigger a number of interactions such as:

- Increased turning frequency
- Addition of water. Lagoon water is used as the source of this water.

4. Screening

Following the completion of composting the material is transported from the stockpile to the screening area, which is located in Phase 2 using the Volvo loader.

The composted material is screened, material below 10mm will be stockpiled for use in growing media plants, whilst material over this size will be set aside for shredding and composting.

5. Shredding:

Oversized material is collected at the screening plant and is reincorporated into the new windrows.

Working Hours

Composting activities (Turning / Screening) will normally be undertaken during the hours of 08:00 and 18:00; Monday to Friday inclusive.

Delivery hours are confined to the hours of 08:00 to 18:00; Monday to Friday inclusive.

Reduced site activities such as maintenance and cleaning proceed until 22:00 Monday to Friday inclusive.

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SECTION 2

DATA

2.1 SUMMARY DATA

2.1.1 Waste Recovery Data:

Waste Type	EWC Code	Annual Intake (Tonnes)
Greenwaste	20 02 01	16295
Bark	03 03 01	5052
Brewery by-Product	02 07 01	23993
Fruit and Vegetables	02 01 03	4696
Dairy Sludge	02 05 02	5656
Brewery Sludge	02 07 05	1957

2.1.2 Wastes produced on site

Waste Type	EWC Code	Annual Output (Tonnes)
Uncomposted Fraction – Plastics etc	19 05 01	30
Excess Water	19 05 99	2592

2.1.3 Summary Report on Emissions:

There are no emission points within the facility.

2.1.3 Summary Reports on Environmental Monitoring:

2.1.3 (A) Surface Water Analysis Results – Tables A.1 – A.4 below show results of 2011 Surface water analysis.

Table A.1 - Surface Water Q1 2011					
Parameter	SW1	SW2	SW3	SW4	SW5
pH	7.7	7.5	7.7	7.7	8.0
Suspended Solids (mg/l)	8	12	5	<5	<5
BOD (mg/l)	<2	<2	<2	<2	<2
DRO (mg/l)	<10	<10	<10	<10	<10
Mineral Oil (mg/l)	<10	<10	<10	<10	<10

Table A.2 - Surface Water Q2 2011					
Parameter	SW1	SW2	SW3	SW4	SW5
pH	7.4	7.5	7.5	7.4	7.9
Suspended Solids (mg/l)	30	10	37	7	6
DRO (mg/l)	<10	<10	<10	<10	<10
Mineral Oil (mg/l)	<10	<10	<10	<10	<10

Table A.3 - Surface Water Q3 2011					
Parameter	SW1	SW2	SW3	SW4	SW5
pH	7.5	7.5	7.5	7.5	8.0
Suspended Solids (mg/l)	<5	<5	<5	<5	<5
BOD (mg/l)	2	<2	<2	<2	<2
DRO (mg/l)	<10	<10	<10	<10	<10
Mineral Oil (mg/l)	<10	<10	<10	<10	<10

Table A.4 - Surface Water Q4 2011					
Parameter	SW1	SW2	SW3	SW4	SW5
pH	7.3	7.4	7.3	7.3	7.8
Suspended Solids (mg/l)	<5	<5	<5	<5	<5
BOD (mg/l)	2	<2	<2	<2	<2
DRO (mg/l)	<10	<10	<10	<10	<10
Mineral Oil (mg/l)	<10	<10	<10	<10	<10

2.1.3 (B) Ground Water Analysis Results

Groundwater Results Q1 2011					
Laboratory ID.	MW1	MW2	MW3	MW4	MW5
pH	7.2	7.2	7.1	7.0	7.0
Conductivity $\mu\text{S/cm}$	650	585	664	1935	1710
Ammonia as N mg/l	1.6	7.1	5.9	25.0	16
Chloride mg/l	20.29	13.63	15.57	40.34	17.16
Sulphate mg/l	39.50	0.50	0.50	<0.5	0.84
Nickel $\mu\text{g/l}$	10	8	18	52	27
Manganese $\mu\text{g/l}$	527	94	174	1254	1570

Groundwater Results Q2 2011					
Laboratory ID.	MW1	MW2	MW3	MW4	MW5
pH	7.6	7.3	7.1	7.0	7.0
Conductivity $\mu\text{S/cm l}$	506	625	875	1864	1158
Ammonia as N mg/l	1.83	7.5	6.4	24	12
Chloride mg/l	16.80	12.29	15.43	34.55	29.28
Sulphate mg/l	11.25	2.88	<0.5	1.45	0.63
Nickel $\mu\text{g/l}$	6	7	19	58	31
Manganese $\mu\text{g/l}$	397	162	350	1364	543

Groundwater Results Q3 2011					
Laboratory ID.	MW1	MW2	MW3	MW4	MW5
pH	7.7	7.3	6.7	6.9	6.8
Conductivity $\mu\text{S/cm l}$	463	695	1023	1394	968
Ammonia as N mg/l	1.79	6.3	5.6	21	9.1
Chloride mg/l	18.98	18.15	23.31	34.59	23.82
Sulphate mg/l	11.58	32.64	<0.5	8.08	<0.5
Nickel $\mu\text{g/l}$	2	5	9	56	20
Manganese $\mu\text{g/l}$	511	259	103	666	67

Groundwater Q4 2011					
Parameter	MW-01	MW-02	MW-03	MW-04	MW-05
pH	7.7	7.4	7.2	7.1	7.0
Ammonia as N mg/l	2.08	6.50	5.5	18	7.2
Chloride mg/l	15.03	12.70	17.37	39.68	88.90
Orthophosphate mg/l	1.59	<0.5	<0.5	7.53	73.33
Nitrate as N mg/l	<0.05	<0.05	<0.05	<0.05	<0.05
Total Phosphorous mg/l	<0.05	0.11	0.17	5.94	12.47
Antimony µg/l	13	12	7	29	134
Arsenic µg/l	<2	<2	<2	<2	<2
Aluminium µg/l	56	99	55	<2	15
Beryllium µg/l	15	4	6	<2	198
Barium µg/l	<2	<2	<2	<2	<2
Calcium mg/l	502	398	395	86	125
Chromium µg/l	<2	<2	<2	<2	<2
Cadmium µg/l	<2	<2	<2	<2	<2
Cobalt µg/l	4	3	3	<2	4
Copper µg/l	<2	<2	<2	<2	<2
Iron mg/l	5.7	6.3	9.6	<0.1	7.9
Potassium mg/l	1.3	1.5	1.2	54	232
Manganese µg/l	465	108	379	30	1421
Silver µg/l	<2	<2	<2	<2	<2
Sodium mg/l	8	9	13	36	12
Nickel µg/l	<2	<2	<2	<2	<2
Lead µg/l	<2	<2	<2	<2	<2
Selenium µg/l	<2	<2	<2	<2	<2
Tin µg/l	11	5	<2	<2	63
Zinc µg/l	<1	<1	<1	<1	<1
Mercury µg/l	7.7	7.4	7.2	7.1	7.0
Total Coliforms cfu/100mls	<1	<1	<1	12	4
E.Coli cfu/100mls	<1	<1	<1	12	4

Groundwater Q4 2011-VOC Analysis					
VOC's (µg/l)	MW-01	MW-02	MW-03	MW-04	MW-05
Dichlorodifluoromethane	<10	<10	<10	<10	<10
Chloromethane	<10	<10	<10	<10	<10
Vinyl chloride	<10	<10	<10	<10	<10
Bromomethane	<10	<10	<10	<10	<10
Chloroethane	<10	<10	<10	<10	<10
Trichlorofluoromethane	<10	<10	<10	<10	<10
1,1-Dichloroethene	<10	<10	<10	<10	<10
Dichloromethane	<10	<10	<10	<10	<10
trans-1,2-Dichloroethene	<10	<10	<10	<10	<10
1,1-Dichloroethane	<10	<10	<10	<10	<10
2,2-Dichloropropane	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	<10	<10	<10	<10	<10
Bromochloromethane	<10	<10	<10	<10	<10
Chloroform	<10	<10	<10	<10	<10
1,1,1-Trichloroethane	<10	<10	<10	<10	<10
Carbon Tetrachloride	<10	<10	<10	<10	<10
1,1-Dichloropropene	<10	<10	<10	<10	<10
Benzene	<10	<10	<10	<10	<10
1,2-Dichloroethane	<10	<10	<10	<10	<10
Trichloroethene	<10	<10	<10	<10	<10
1,2-Dichloropropane	<10	<10	<10	<10	<10
Dibromomethane	<10	<10	<10	<10	<10
Bromodichloromethane	<10	<10	<10	<10	<10
Toluene	<10	<10	<10	<10	<10
1,1,2-Trichloroethane	<10	<10	<10	<10	<10
1,1,1,2-Tetrachloroethane	<10	<10	<10	<10	<10
m,p-Xylene	<10	<10	<10	<10	<10
Styrene	<10	<10	<10	<10	<10
Isopropylbenzene	<10	<10	<10	<10	<10
n-propylbenzene	<10	<10	<10	<10	<10

Groundwater Q4 2011 - Cont'd VOC Analysis					
VOC's (µg/l)	MW-01	MW-02	MW-03	MW-04	MW-05
2-Chlorotoluene	<10	<10	<10	<10	<10
4-Chlorotoluene	<10	<10	<10	<10	<10
1,2,4-Trimethylbenzene	<10	<10	<10	<10	<10
4-Isopropyltoluene	<10	<10	<10	<10	<10
1,4-Dichlorobenzene	<10	<10	<10	<10	<10
1,2-Dichlorobenzene	<10	<10	<10	<10	<10
Naphthalene	<10	<10	<10	<10	<10
1,3-Dichloropropane	<10	<10	<10	<10	<10
cis-1,3-Dichloropropene	<10	<10	<10	<10	<10
trans-1,3-Dichloropropene	<10	<10	<10	<10	<10
Dibromochloromethane	<10	<10	<10	<10	<10
Chlorobenzene	<10	<10	<10	<10	<10
Ethyl Benzene	<10	<10	<10	<10	<10
o-Xylene	<10	<10	<10	<10	<10
Bromoform	<10	<10	<10	<10	<10
1,2,3-Trichloropropane	<10	<10	<10	<10	<10
Bromobenzene	<10	<10	<10	<10	<10
Tert-Butylbenzene	<10	<10	<10	<10	<10
Sec-Butylbenzene	<10	<10	<10	<10	<10
1,3,5-Trimethylbenzene	<10	<10	<10	<10	<10
1,2- Dibromo-3-chloropropane	<10	<10	<10	<10	<10
Hexachlorobutadiene	<10	<10	<10	<10	<10
1,2,3-Trichlorobenzene	<10	<10	<10	<10	<10
1,3-Dichlorobenzene	<10	<10	<10	<10	<10
Tetrachloroethene	<10	<10	<10	<10	<10
n-butylbenzene	<10	<10	<10	<10	<10
1,2,4-Trichlorobenzene	<10	<10	<10	<10	<10

Groundwater Q4 2011 – SVOC Analysis					
SVOC's (µg/l)	MW-01	MW-02	MW-03	MW-04	MW-05
Phenol	<1	<1	<1	<1	<1
2-Chlorophenol	<1	<1	<1	<1	<1
2-Methylphenol	<1	<1	<1	<1	<1
4-Methylphenol	<1	<1	<1	<1	<1
2-Nitrophenol	<1	<1	<1	<1	<1
4-Nitrophenol	<1	<1	<1	<1	<1
2,4-Dichlorophenol	<1	<1	<1	<1	<1
2,4-Dimethylphenol	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol	<1	<1	<1	<1	<1
Pentachlorophenol	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<1
Nitrobenzene	<1	<1	<1	<1	<1
Azobenzene	<1	<1	<1	<1	<1
Hexachlorobenzene	<1	<1	<1	<1	<1
Naphthalene	<1	<1	<1	<1	<1
Acenaphthalene	<1	<1	<1	<1	<1
Acenaphthene	<1	<1	<1	<1	<1
Flourene	<1	<1	<1	<1	<1
Phenanthrene	<1	<1	<1	<1	<1
Anthracene	<1	<1	<1	<1	<1
Fluoranthrene	<1	<1	<1	<1	<1
Pyrene	<1	<1	<1	<1	<1
Benzo(a)anthracene	<1	<1	<1	<1	<1
Chrysene	<1	<1	<1	<1	<1
Benzo(b)fluoranthrene	<1	<1	<1	<1	<1
Benzo(k)fluoranthrene	<1	<1	<1	<1	<1

Groundwater Q4 2011 - Cont'd SVOC Analysis					
SVOC's (µg/l)	MW1	MW2	MW3	MW4	MW-05
Benzo(a)pyrene	<1	<1	<1	<1	<1
Indenol(1,2,3-cd)pyrene	<1	<1	<1	<1	<1
Dibenzo(a,h)anthracene	<1	<1	<1	<1	<1
Benzo(ghi)perylene	<1	<1	<1	<1	<1
2-Chloronaphthalene	<1	<1	<1	<1	<1
Carbazole	<1	<1	<1	<1	<1
2-Methylnaphthalene	<1	<1	<1	<1	<1
Isophorone	<1	<1	<1	<1	<1
Dibenzofuran	<1	<1	<1	<1	<1
Dimethyl phthalate	<1	<1	<1	<1	<1
Diethyl phthalate	<1	<1	<1	<1	<1
Di-butylphthalate	<1	<1	<1	<1	<1
Di-octylphthalate	<1	<1	<1	<1	<1
Bis(2-ethylhexyl)phthalate	<1	<1	<1	<1	<1
Butylbenzylphthalate	<1	<1	<1	<1	<1
4-Chloroaniline	<1	<1	<1	<1	<1
2-Nitroaniline	<1	<1	<1	<1	<1
3-Nitroaniline	<1	<1	<1	<1	<1
4-Nitroaniline	<1	<1	<1	<1	<1
2,4-Dinitroaniline	<1	<1	<1	<1	<1
2,6-Dinitroaniline	<1	<1	<1	<1	<1
Bis(2-Chloroethyl)ether	<1	<1	<1	<1	<1
4-Bromophenylphenylether	<1	<1	<1	<1	<1
4-Chlorophenylphenylether	<1	<1	<1	<1	<1
Hexachloroethane	<1	<1	<1	<1	<1
Hexachlorobutadiene	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	<1	<1	<1	<1	<1
Bis(2-chloroethoxy)methane	<1	<1	<1	<1	<1
N-nitrosodi-n-propylamine	<1	<1	<1	<1	<1

Groundwater Q4 2011 – Pesticide Suite					
Pesticides (µg/l)	MW-01	MW-02	MW-03	MW-04	MW-05
Dichlorvos	<0.01	<0.01	<0.01	<0.01	<0.01
Mevinphos	<0.01	<0.01	<0.01	<0.01	<0.01
Alpha - BHC	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma - BHC	<0.01	<0.01	<0.01	<0.01	<0.01
Diazinon	<0.01	<0.01	<0.01	<0.01	<0.01
Delta - BHC	<0.01	<0.01	<0.01	<0.01	<0.01
Ethyl Parathion	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor	<0.01	<0.01	<0.01	<0.01	<0.01
Fenitrothion	<0.01	<0.01	<0.01	<0.01	<0.01
Aldrin	<0.01	<0.01	<0.01	<0.01	<0.01
Malathion	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor Epoxide	<0.01	<0.01	<0.01	<0.01	<0.01
Endosulphan I	<0.01	<0.01	<0.01	<0.01	<0.01
Dieldrin	<0.01	<0.01	<0.01	<0.01	<0.01
4, 4' - DDE	<0.01	<0.01	<0.01	<0.01	<0.01
Endosulphan II	<0.01	<0.01	<0.01	<0.01	<0.01
4, 4' - DDD	<0.01	<0.01	<0.01	<0.01	<0.01
Ethion	<0.01	<0.01	<0.01	<0.01	<0.01
Endrin	<0.01	<0.01	<0.01	<0.01	<0.01
Endosulfan Sulphate	<0.01	<0.01	<0.01	<0.01	<0.01
4, 4' - DDT	<0.01	<0.01	<0.01	<0.01	<0.01
Methoxychlor	<0.01	<0.01	<0.01	<0.01	<0.01
Azinphos Methyl	<0.01	<0.01	<0.01	<0.01	<0.01

2.1.3 (C) Dust Analysis Results

2011 Dust Results				
Location	Q1 Dust (mg/m²/day)	Q2 Dust (mg/m²/day)	Q3 Dust (mg/m²/day)	Q4 Dust (mg/m²/day)
AM-01	123	112	71	258
AM-02	No Sample	100	182	94
AM-03	No Sample	476	299	206
AM-04	1057 *	1504 *	76	135

* - This monitoring location is adjacent to the 'Tippler' unit where raw peat from the bog is unloaded for use in the peat bagging facility.

2.1.3 (D) Odour Analysis Results 2011 – See Appendix * for Sample location maps

METEOROLOGICAL CONDITIONS Q1 - 24TH OF FEBRUARY 2011			
Parameter		Parameter	
Weather	Dry, mainly calm with slight breeze from northwest/south-west	Wind speed	1.85 m/sec (average)
Temp	11.1°C	Wind Direction	From West/south-west
General Air Quality	Good	Bar Pressure	1016.4mbar

Odour Sampling Results Q1 - 24th of February 2011		
Locations	On site observations	Results
OD 1 (Upwind)	Slight odour of smoke from chimney of dwelling 1 (approx 30 m)	<60 ou _E /m ³
OD 2 (Downwind)	Windrow machine in operation. Strong sweet odour from steam ejected from windrow machine (approx 50m from sampling point)	1236 ou _E /m ³
OD 3 (Sensitive Receptor)	Windrow machine in operation. Medium to slight odour from composting process and windrow turning (approx 50m from sampling point)	<60 ou _E /m ³

METEOROLOGICAL CONDITIONS Q2 - 18TH OF MAY 2011			
Parameter		Parameter	
Weather	Dry, with gentle breeze from northwest	Wind speed	4.47m/sec (average)
Temp	10.9°C	Wind Direction	From Northwest
General Air Quality	Fair	Bar Pressure	1013mbar

Odour Sampling Results Q2 - 18 th of May 2011		
Locations	On site observations	Results
OD 1 (Upwind)	No Noticeable Odours	<60 ou _E /m ³
OD 2 (Downwind)	Very slight odour from the screening of compost in phase 2. Slight Bark mulch odour noticeable at times	<60 ou _E /m ³
OD 3	Notable odour from compost in phase 1 which may also be attributed to leachate between compost rows. Loaders transporting compost from phase 1 to phase 2	161 ou _E /m ³

METEOROLOGICAL CONDITIONS Q3 - 21 ST OF SEPTEMBER 2011			
Parameter		Parameter	
Weather	Dry, with breeze from southwest	Wind speed	1.73m/sec (average)
Temp	12.9°C ^{Note 1}	Wind Direction	From Southwest
General Air Quality	Fair	Bar Pressure	1011.3mbar

Odour Sampling Results Q3 - 21 st of September 2011		
Locations	On site observations	Results
OD 1 (Downwind)	Strong composting odour with windrow turner operation approx 30 meters away Shredder in operation approx 70 meters away	3,044 ou _E /m ³
OD 2 (Sensitive Receptor)	Strong/medium composting odour with windrow turner operation approx 40 meters away Shredder in operation approx 60 meters away	222 ou _E /m ³
OD 3 (Upwind)	No noticeable odours	<60 ou _E /m ³

METEOROLOGICAL CONDITIONS Q4 - 18TH OF OCTOBER 2011			
Parameter		Parameter	
Weather	Dry, cool with breeze from west/southwest	Wind speed	2.1m/sec (average)
Temp	11.2°C ^{Note 1}	Wind Direction	Intermittent from west/southwest
General Air Quality	Good	Bar Pressure	1002.5 mbar

Odour Sampling Results Q4 - 18th of October 2011		
Locations	On site observations	Results
OD 1 (Sensitive Receptor)	Moderate odour detected, wind was intermittent for west/southwest. Odour was typical of odour from the composting process. windrow turner operating approx 45-60 meters away	150 ou _E /m ³
OD 2 (Downwind)	Moderate odour detected, wind was intermittent for west/southwest. Odour was typical of odour from the composting process. windrow turner operating approx 50 meters away	198 ou _E /m ³
OD 3 (Upwind)	Slight chimney smoke odour detected from dwelling on western boundary	306 ou _E /m ³

2.1.4 (E) Air Emissions Results

Air Analysis Q1 2011				
Location	Amines (ppm)	Ammonia (ppm)	Hydrogen Sulphide (ppm)	Mercaptens (ppm)
Centre of Site	<9.8 x 10 ⁻⁷	<5	<0.2	<0.5

Air Analysis Q2 2011				
Location	Amines (ppm)	Ammonia (ppm)	Hydrogen Sulphide (ppm)	Mercaptens (ppm)
Centre of Site	118	<5	<0.2	<0.5

Air Analysis Q3 2011				
Location	Amines (ppm)	Ammonia (ppm)	Hydrogen Sulphide (ppm)	Mercaptens (ppm)
Sensitive Receptor	<3.97	<5	<0.2	<0.5

Air Analysis Q4 2011				
Location	Amines (ppm)	Ammonia (ppm)	Hydrogen Sulphide (ppm)	Mercaptens (ppm)
Sensitive Receptor	<3.99	<5	<0.2	<0.5

2.3.1 (E) Noise Emissions**Noise:**

The annual noise-monitoring programme was carried out on the 14th October 2011. The results of same are presented in Table E.1 and E.2.

TABLE E.1: NOISE MEASUREMENT RESULTS (DAYTIME) 14th Oct 2011

Location No.	Measurement Period (minutes)	Time	L _{eq} dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{AFMax} dB(A)
N1	30	08:15	59	59	47	80
N2	30	08:49	62	65	39	80
N3	30	09:25	57	61	39	75
N4	30	09:58	58	59	57	71
NSL 1	30	10:42	55	58	48	70

TABLE E.2: NOISE MEASUREMENT RESULTS (NIGHT TIME) 15th Oct 2011

Location No.	Measurement Period (minutes)	Time	L _{eq} dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{AFMax} dB(A)
N1	10	07:04	59	57	37	77
N2	10	07:19	41	43	33	57
N3	10	07:42	61	62	45	81
N4	10	07:54	68	73	53	83
NSL 1	10	07:31	48	48	42	67

2.1.4 Environmental Incidents & Complaints

All environmental incidents and complaints are recorded and actioned upon in accordance with the specific procedures as outlined in the Bord na Móna Kilberry Compost facility documented environmental management system.

Environmental Complaints	Number of complaints
Complaints received	Three
Complaints requiring corrective action	None - New Odour Management Plan commenced August 2010
Categories of complaint	
Odour	Three
Noise	
Water	
Air	
Procedural	
Miscellaneous	

2.1.5 Environmental Spending

The itemised spend on environmental issues at Bord na Móna Kilberry are listed below.

January 2011 to December 2011	
	€
EPA Fees	11,037
Consultancy & Monitoring	29,500
Equipment	350
Total Cost	

2.1.6 Resource and Energy Consumption

Fuel Usage 2011 – See table below

Machine Type	Engine Type	Total (L)
Komptech Topturn X67 Turner	Cat C9	91981.15
Komptech Crambo 6000 Shredder	Cat C16	
Komptech L3 Multistar Screen	Dieselelectric 44KVA	
L110E Volvo Front Loader	Volvo D7D LB E2	
L110E Volvo Front Loader 2	Volvo D7D LB E2	

Electricity Usage 2011 – recorded at compost site metre.

88712 KwHr

SECTION 3

ENVIRONMENTAL MANAGEMENT

BORD NA MÓNA KILBERRY COMPOST FACILITY ENVIRONMENTAL OBJECTIVES AND TARGETS 2012

Item No	Objective	Target	Responsible Function
1	Meet Operating Capacity Requirements.	<ul style="list-style-type: none"> • Increase tonnage entering site – investigate new waste types. • Implement new marketing strategies to increase customer base 	Horticulture (Newbridge)
2	Emergency Response, Health and Safety and Training	<ul style="list-style-type: none"> • Carry out one spill drill. • All staff members to receive Environmental training. • Conduct occupational air study within cab of the turner 	Environmental (Kilberry)
3	Water Management	<ul style="list-style-type: none"> • Hold Ideation Session to assess possible treatments options for the leachate. • Rank ideas and commence discussion with senior management on which treatment options to pursue. 	Innovation. (Newbridge)
4	Once off Projects	<ul style="list-style-type: none"> • Replant berm with a new species of plant more resistant to dry conditions. • Investigate the elevated COD levels recorded during EPA sampling event. • Asses rainfall impact on Lagoon levels through a detailed monitoring program. 	Environmental (Kilberry)
5	Carry out monitoring as per Licence 198-1	<ul style="list-style-type: none"> • Noise – Once per annum • Bioaerosols – Once per annum • Dust – four times per annum • SW - Quarterly • GW – Quarterly 	Environmental (Newbridge / Kilberry)

3.1 Environmental Management Programme for 2012.

Review of Objectives and Targets for the period January to December 2011

Tables EMP 1.1 to 1.5 reviews the Objectives and Targets set for 2011. A number of the listed Objectives and their subsequent targets are cyclical as the company attempts to achieve continuous environmental improvement.

Tables EMP 2.1 to 2.5 set out the Objectives and Targets for 2012. A number of the listed Objectives and their subsequent targets are cyclical as the company attempts to achieve continuous environmental improvement.

Site Infrastructure**EOT 1.1**

Objective	Target	Target Date	2011 Review	Dept Responsible
Meet Operating Capacity Requirements.	Increase tonnage entering site – investigate new waste types.	2011	Tonnage increased by 54 % in 2011	Kilberry (Environmental)
	Implement new marketing strategies to increase customer base	Q2 2011	Continuous 2011	Horticulture (Newbridge)

Site Management**EOT 1.2**

Objective	Target	Target Date	2011 Review	Dept Responsible
Improve efficiency of site operations	Ensure pumps remain clear to increase drainage of site.	Continuous 2011	Complete	Kilberry (Environmental)
	Install 'units' at each pump station within P1 to improve access to pumps.	Q2/Q3 2011	Not Complete due to operational constraints	Kilberry (Engineering)

Waste Management**EOT 1.3**

Objective	Target	Target Date	2011 Review	Dept Responsible
Water Management	Apply to Kildare County Council for planning permission to change site boundary	January 2011	Section 5 request sent to KCC. Advised that planning is required. Currently assessing which treatment option to proceed with.	Kilberry (Environmental)
	Undertake licence review to include excess water disposal within new site boundary	2010	Not Commenced. This is dependent on which treatment option is chosen. It will be added to the 2013 Objectives if required	Kilberry (Environmental)

EPA Compliance**EOT 1.4**

Objective	Target	Target Date	2011 Review	Dept Responsible
Once off Projects	Assess potential for local farmers to use excess water as a fertiliser substitute	Q1 2011	Postponed until a final decision on which treatment option to proceed with for excess water	Kilberry (Environmental)
	BnM Environmental to assess sewage treatment plants onsite and adjacent to site.	Q2 2011	BnM Environmental undertook an assessment of the WWT system adjacent to the stores building. Recommended emptying the sump on a regular basis	Kilberry (Environmental)
	Finalise Ammonia in GW assessment	Q2 2011	Interim Ammonia in GW Assessment report sent to the agency in 2011	Kilberry (Environmental)

Licence Compliance**EOT 1.5**

Objective	Target	Target Date	2011 Review	Person Responsible
Carry out monitoring as per Licence W0198-1	Noise – Once per annum	2011	Complete	Newbridge (Environmental)
	Bioaerosols – Annually	2011	Complete	Newbridge (Environmental)
	Dust - Quarterly	2011	Complete	Kilberry (Environmental)
	Groundwater – Quarterly	2011	Complete	Kilberry (Environmental)
	Surface Water - Quarterly	2011	Complete	Kilberry (Environmental)

Operating Requirements**EOT 2.1**

Objective	Target	Target Date	Person Responsible
Meet Operating Capacity Requirements.	Increase tonnage entering site – investigate new waste types	Continuous 2012	Newbridge (Horticulture)
	Implement new marketing strategies to increase customer base	Continuous 2012	Newbridge (Horticulture)

Energy Management**EOT 2.2**

Objective	Target	Target Date	Person Responsible
Emergency Response, Health and Safety and Training	Carry out one spill drill.	Q2 2012	Environmental (Kilberry)
	All staff members to receive Environmental training.	Q3 2012	Environmental (Kilberry)
	Conduct occupational air study within cab of the turner	Q1 2012	Environmental (Newbridge)

Water Management**EOT 2.3**

Objective	Target	Target Date	Person Responsible
Water Management	Hold Ideation Session to assess possible treatments options for the leachate.	Q1 2012	Innovation. (Newbridge)
	Rank ideas and commence discussion with senior management on which treatment options to pursue	Q2 2012	Innovation. (Newbridge)

Once Off Projects**EOT 2.4**

Objective	Target	Target Date	Person Responsible
Once off Projects	Replant berm with a new species of plant more resistant to dry conditions.	Q1/Q2 2012	Kilberry (Environmental)
	Investigate the elevated COD levels recorded during EPA sampling event.	Q1 201	Kilberry (Environmental)
	Asses rainfall impact on Lagoon levels through a detailed monitoring program.	Continuous 2012	Kilberry (Environmental) Innovation. (Newbridge)

Licence Compliance**EOT 2.5**

Objective	Target	Target Date	Person Responsible
Carry out monitoring as per Licence 198-1	Noise – Once per annum	2012	Environmental (Newbridge)
	Bioaerosols – Once per annum	2012	Environmental (Newbridge)
	Dust - Quarterly	2012	Kilberry (Environmental)
	Groundwater – Quarterly	2012	Kilberry (Environmental)
	Surface Water - Quarterly	2012	Kilberry (Environmental)

APPENDIX 1
Odour Monitoring Location Maps

Odour Q1 2011

Wind Direction

OD-3
Downwind

OD-2 Sensitive
Receptor

OD-1
Upwind

Lagoons for Collection of Surface Water:
Embankments 3.0M high built up in 450mm layers, compacted on each lift with excavator tracks. Top of embankment faced with 1.8M high security fence. Lagoons lined with 2.5mm HDPE liner welded to form a 100% seal.

GROUND WATER MONITORING LOCATIONS

Point	Easting	Northing
MW-01	E266,388	N200,019
MW-02	E266,374	N200,213
MW-03	E266,493	N200,077
MW-04	E266,511	N200,002

NOISE MONITORING LOCATIONS

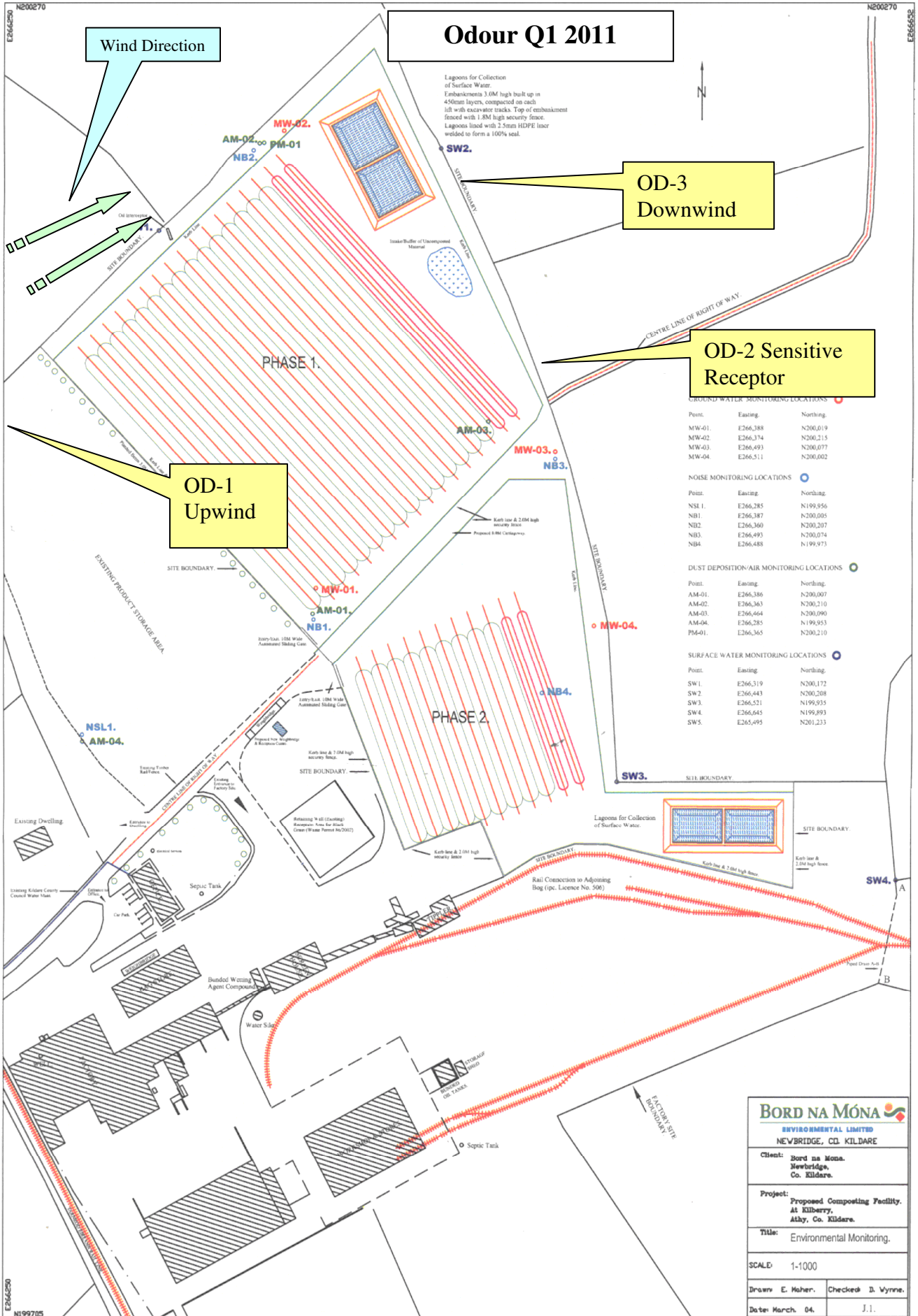
Point	Easting	Northing
NSL1	E266,285	N199,956
NB1	E266,387	N200,005
NB2	E266,360	N200,207
NB3	E266,493	N200,074
NB4	E266,488	N199,973

DUST DEPOSITION/AIR MONITORING LOCATIONS

Point	Easting	Northing
AM-01	E266,386	N200,007
AM-02	E266,363	N200,210
AM-03	E266,464	N200,090
AM-04	E266,285	N199,953
PM-01	E266,365	N200,210

SURFACE WATER MONITORING LOCATIONS

Point	Easting	Northing
SW1	E266,319	N200,172
SW2	E266,443	N200,208
SW3	E266,521	N199,935
SW4	E266,645	N199,893
SW5	E266,495	N201,233



BORD NA MÓNA
ENVIRONMENTAL LIMITED
NEWBRIDGE, CO. KILDARE

Client: Bord na Móna, Newbridge, Co. Kildare.

Project: Proposed Composting Facility, At Kilberry, Athy, Co. Kildare.

Title: Environmental Monitoring.

SCALE: 1-1000

Drawn: E. Maher. Checked: D. Vyrne.

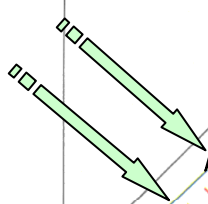
Date: March, 04. J.I.

Odour Q2 2011

Lagoons for Collection of Surface Water:
Embankments 3.0M high built up in 450mm layers, compacted on each lift with excavator tracks. Top of embankment finished with 1.8M high security fence. Lagoons lined with 2.5mm HDPE liner welded to form a 100% seal.



Wind Direction



OD-1 Upwind

OD-2 Sensitive Receptor

OD-3 Downwind

MONITORING LOCATIONS

GROUND WATER MONITORING LOCATIONS

Point	Easting	Northing
MW-01	E266,388	N200,019
MW-02	E266,374	N200,215
MW-03	E266,493	N200,077
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NOISE MONITORING LOCATIONS

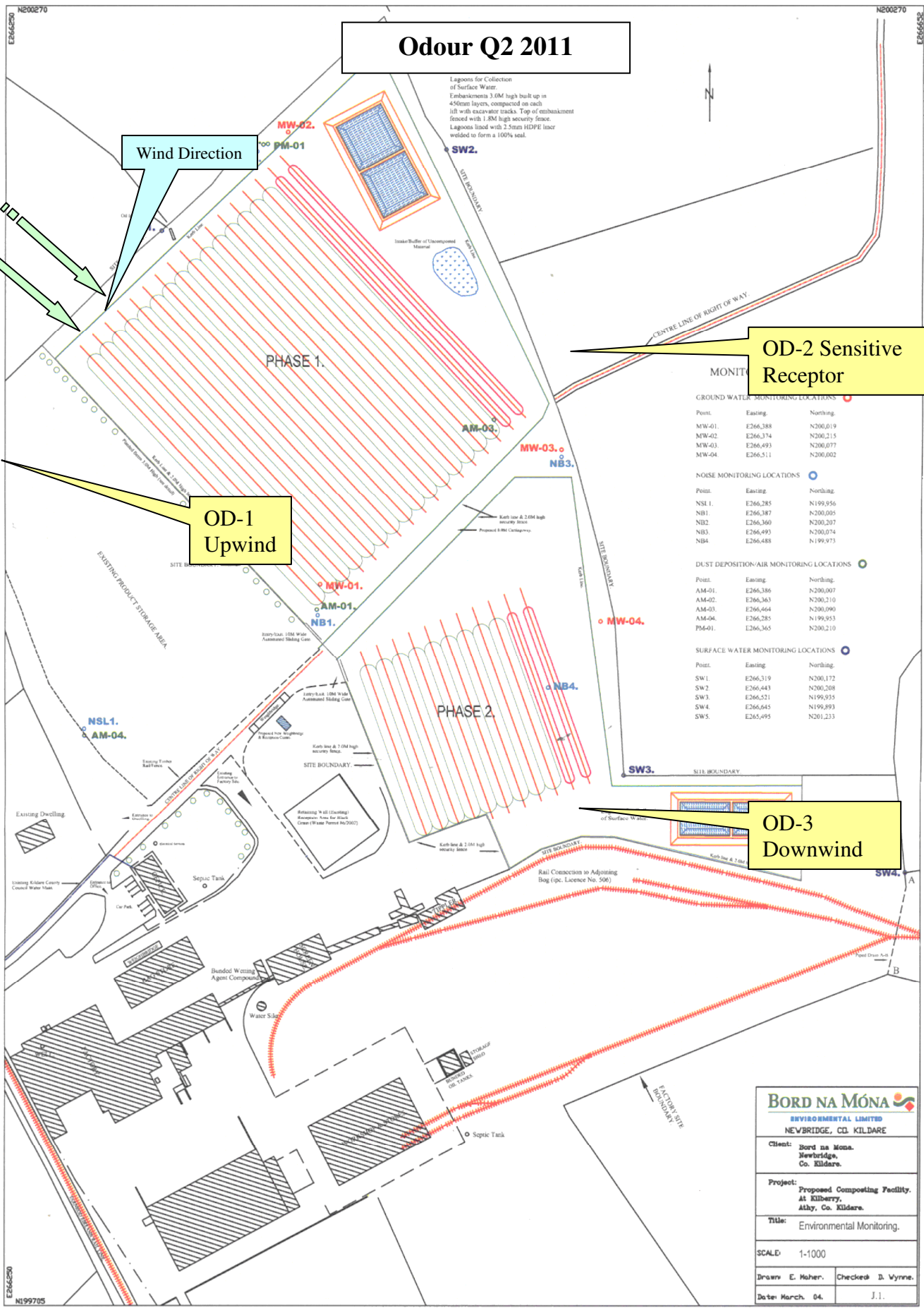
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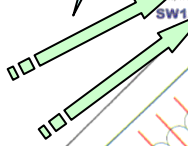
SCALE: 1-1000

Drawn: E. Maher, Checked: D. Vyrine.

Date: March, 04, J.I.

Odour Q3 2011

Wind Direction



OD-1 Downwind

Windrow Turner

OD-2 Sensitive Receptor

OD-3 Upwind

Screeners

MONITORING POINTS

OD-2 Sensitive Receptor

MW-01.	E266,388	N200,019
MW-02.	E266,374	N200,215
MW-03.	E266,493	N200,077
MW-04.	E266,511	N200,002

NOISE MONITORING LOCATIONS

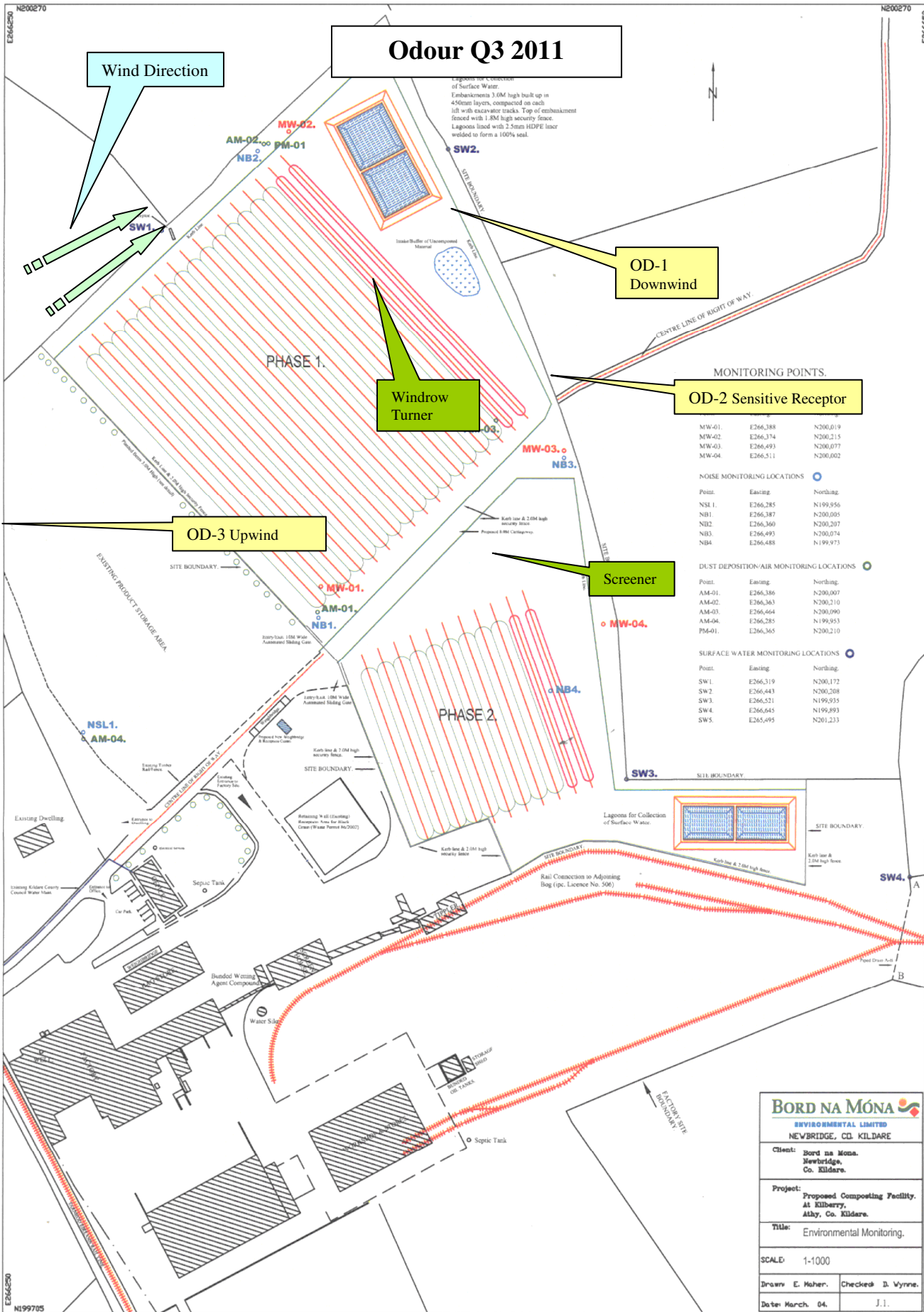
Point	Easting	Northing
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NB1.	E266,387	N200,005
NB2.	E266,360	N200,207
NB3.	E266,493	N200,074
NB4.	E266,488	N199,973

DUST DEPOSITION/AIR MONITORING LOCATIONS

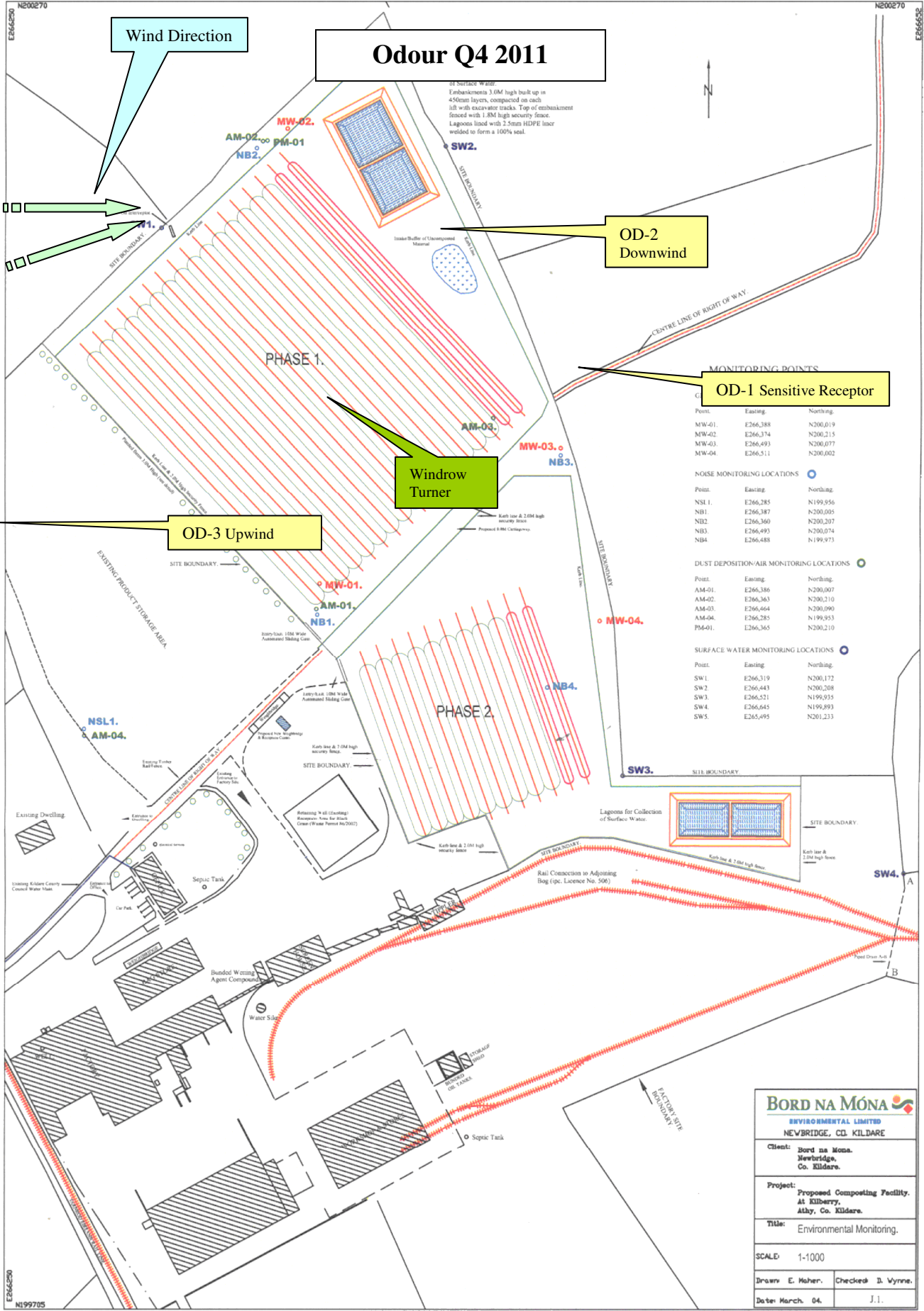
Point	Easting	Northing
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BORD NA MÓNA ENVIRONMENTAL LIMITED NEWBRIDGE, CO. KILDARE	
Client:	Bord na Móna, Newbridge, Co. Kildare.
Project:	Proposed Composting Facility, at Kilderry, Athy, Co. Kildare.
Title:	Environmental Monitoring.
SCALE:	1-1000
Drawn:	E. Maher.
Checked:	D. Vyrne.
Date:	March. 04. J.J.



BORD NA MÓNA
 ENVIRONMENTAL LIMITED
 NEWBRIDGE, CO. KILDARE

Client: Bord na Mona,
 Newbridge,
 Co. Kildare.

Project: Proposed Composting Facility,
 At Kilberry,
 Athy, Co. Kildare.

Title: Environmental Monitoring.

SCALE: 1-1000

Drawn: E. Maher. Checked: D. Wynne.

Date: March. 04. J.I.

APPENDIX 2
Compost Analysis Report

REPORT NO: **KILBERRY MONTHLY ANALYSIS 2011**

PREPARED BY: Colman Hynes
Bord na Móna ltd.

DATE: 27/02/12

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Results 49

Introduction

Samples are collected monthly for analysis according to the EPA licence 198-1 *Schedule F: Standards for Compost Quality*.

Samples are collected by the Bord na Mona Horticulture lab. Analysis begins on the day of sampling and held in cold storage during analysis.

Compost Testing and Analysis Service

Report ref: KC11

Results

Sample reference: KC11

Sample matrix: Composted greenwaste and GBG/Sludges

pH, EC and CAT soluble nutrients

2011	pH	EC μS.cm ⁻¹	NH ₄ -N mg.L ⁻¹	NO ₃ -N mg.L ⁻¹	PO ₄ -P mg.L ⁻¹	K mg.L ⁻¹	M/C %
Jan	7.28	431	105	0	77	370	73.2
Feb	6.82	465	4	11	100	660	71.0
Mar	7.04	642	239	6	97	501	67.4
Apr	6.96	673	361	6	151	703	67.0
May	7.04	569	112	4	135	334	64.2
Jun	6.81	907	323	3	157	562	63.1
July	7.08	469	391	6	63	1400	45.0
Aug	7.51	1508	101	3	89	390	61.0
Sep	6.79	651	53	2	81	660	51.4
Oct	7.16	664	28	0	28	71	70.3
Nov	6.78	665	56	2	57	94	60.4
Dec	6.68	630	51	3	54	87	63.7

Maturity

Germination of Cress

New Method	% Germination of control	ARL	Control	RI %	MLV
Jan	100	30.8	32.5	95.6	94.8
Feb	100	40.3	32.5	125.8	123.8
Mar	100	8.7	38.4	22.6	22.6
Apr	100	10.5	38.4	27.4	27.3
May	93.3	2.5	38.9	9.2	8.3
June	100	44.0	44.7	97.5	98.4
July	100	42.7	43.1	99.3	99.1
Aug	93	38.1	43.1	94.9	94.9
Sept	93	4.6	40.2	12.5	12.3
Oct	100	30.2	30.4	99.7	99.3
Nov	100	45.6	41.3	110.5	110.2
Dec	100	40.9	41.3	98.4	99.0
AGR	Average Germination Rate				
CVG	Coefficient of Variation				
RL	Root length				
ARL	Average Root Length				

C:N Ratio

C:N Ratio	
Jan	13
Feb	12
Mar	13
Apr	14
May	13
Jun	13
July	12
Aug	13
Sep	14
Oct	12
Nov	13
Dec	22

Foreign Matter

Particle Size Analysis (Dry Wt. Basis)

	<1mm %	1-2mm %	2-4mm %	4-8mm %	8-16.5mm %	16.5-31.5mm %	>31.5mm %
Jan	10.15	21.33	25.65	26.70	13.61	1.85	0.71
Feb	1.99	2.79	5.66	17.63	27.89	27.60	16.44
Mar	5.93	10.64	13.03	19.66	20.72	21.83	8.19
Apr	8.62	13.21	14.94	18.76	18.76	13.69	12.02
May	23.07	20.99	10.92	10.12	9.58	16.65	8.67
Jun	18.95	17.06	13.33	15.22	14.44	3.51	17.49
July	66.26	11.31	6.67	4.85	6.67	3.33	0.91
Aug	14.93	9.97	11.84	13.88	14.11	15.02	20.24
Sep	30.87	24.97	14.27	13.04	8.73	0.98	7.13
Oct	9.30	17.42	19.15	22.85	21.89	9.39	0.00
Nov	15.95	26.52	22.51	23.76	11.26	0.00	0.00
Dec	7.96	17.93	18.57	19.91	18.94	16.69	0.00

*Very wet and formed dry lumps.

Foreign Matter over 2mm

Foreign Matter > 2mm	
Jan	<1%
Feb	<1%
Mar	<1%
Apr	<1%
May	<1%
Jun	<1%
July	<1%
Aug	<1%
Sep	<1%
Oct	<1%
Nov	<1%
Dec	<1%

Trace Elements

Sample no ¹	Cu mg.kg ⁻¹	Zn mg.kg ⁻¹	Pb mg.kg ⁻¹	Cd mg.kg ⁻¹	Hg mg.kg ⁻¹	Ni mg.kg ⁻¹	Cr mg.kg ⁻¹
Standard	100	350	150	1.5	1	50	100
Jan	15.6	112	10.2	0.327	0.05	6.49	22.6
Feb	27.8	118	14.8	0.34	0.05	7.14	14
Mar	22.8	119	15.6	0.366	0.05	9.38	25.3
Apr	45.8	141	21.1	0.435	0.053	10.5	31.5
May	28.2	127	15.3	0.294	<0.05	14.7	65
Jun	36.6	199	12.1	0.342	<0.05	14.9	45
July	55.6	186	43.7	0.879	0.087	14.5	9.9
Aug	27.1	108	15.8	0.427	<0.05	14.8	22.4
Sep	25.0	98	19	0.360	0.05	7.4	10.6
Oct	38.6	156	21.4	0.43	0.05	11.3	18.1
Nov	35	171	19.5	0.41	0.07	11.1	17.6
Dec	27.7	89.2	5.72	0.33	0.05	28.3	68.4

Pathogens

Sample no	Faecal Coliforms (MPN/g)	Salmonellae (presence or absence)
Standard		
Jan	150	Absent
Feb	<10	Absent
Mar	<10	Absent
Apr	<10	Absent
May	10	Absent
Jun	20	Absent
July	<10	Absent
Aug	<10	Absent
Sep	150	Absent
Oct	<10	Absent
Nov	<10	Absent
Dec	<10	Absent

APPENDIX 3
PRTR Scans



| PRTR# : W0198 | Facility Name : Bord na Móna Plc | Filename : W0198_2011.xls
| Return Year : 2011 |

[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.13

REFERENCE YEAR	2011
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1. FACILITY IDENTIFICATION

Parent Company Name	Bord Na Mona
Facility Name	Bord na Móna Plc
PRTR Identification Number	W0198
Licence Number	W0198-01

Waste or IPPC Classes of Activity

No.	class_name
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.11	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
4.13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
Address 1	Kilberry
Address 2	Athy
Address 3	Co. Kildare
Address 4	
	Kildare
Country	Ireland
Coordinates of Location	-7.0108 53.0473
River Basin District	IESE
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Craig Mallinson
AER Returns Contact Email Address	craigmallinson@inbox.com
AER Returns Contact Position	Consultant
AER Returns Contact Telephone Number	059-8631519 /087-2886848
AER Returns Contact Mobile Phone Number	087 2886848
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General
50.1	General

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

Is it applicable?	
Have you been granted an exemption ?	

If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

