SECTION B GENERAL

B.1. Owner/Operator

** Applicants Name:* Bailieboro Foods Ltd. and Bailie Foods Ireland Ltd

Address: Lear

Bailieborough

Co. Cavan

Telephone Nº: 042 9694200 *Fax Nº:* 042 9694290

e-mail : pj.barry@lakeland.ie

* This should be the name of the applicant on the date the Application is lodged with the Agency. This should be the name of the legal entity (which can be a limited company or a sole trader). A trading/business name is not acceptable.

Address for correspondence :
(if different from above)

Address of Body Corporate :
(if applicable)

e-mail :

The applicant must also supply the following:

(a) Certified Copy of Certificate of Incorporation
(b) Company's Number in Company's Registration Office and
(c) Particulars of Registered Office of the Company

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Name and address of the proprietor(s) of the Land on which the Activity is situated (if different from applicant named above).

Proprietor's Name: _____

Address: _____

_____

_____

_____

Name and address of the owner(s) of the building and ancillary plant in which the activity is situated (if different from applicant named above).

Name: _____

Address: _____

_____

_____

_____

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B.2. Location of Activity

Name: Bailieboro Foods Ltd. and Bailie Foods Ireland

Full Address: *Lear*

Bailieborough

Co. Cavan

_____

Telephone N°: 042 9694200 *Fax N°: 042 9694290*

Contact Name(s): P.J.Barry

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Position(s): Environmental Manager

e-mail : pj.barry@lakeland.ie

National Grid Reference (12 digit-6E,6N) 267685E, 398135N

Location maps, with grid references should be enclosed in **Attachment Nº B.2.**

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B.3. Class of Activity

Identify the relevant activities in the First, Third or Fourth Schedule of the PoE Act 2004 to which the activity relates :

Schedule	Class	Description[Note 1]
First	7.2.2	The manufacture of dairy products where the processing capacity exceeds 50 gallons of milk equivalent per year, not included in paragraph 7.2.1
	(associated) 11.1	The recovery or disposal of waste in a facility, within the meaning of the Act of 1996, which facility is connected or associated with another activity specified in this schedule in respect of which a licence or revised licence under part IV is in force or in respect of which a licence under the said parts is or will be required

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Note 1: In order to give a precise identification **select only those words** from the description of the class or classes that best describes the nature of the activity for which the licence is being applied for.

B.4. Employees/ Capital Cost

Give-

(i) In the case of an established activity, the number of employees and other persons, working or engaged in connection with the activity on the date after which a licence is required and during normal levels of operation, or

(ii) In any other case, the gross capital cost of the activity to which the application relates.

Number of Employees (existing facilities) :150

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Gross Capital Cost (new proposals) €_____

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B.5. Relevant Planning Authority

Give the name of the planning authority in whose functional area the activity is or will be carried out.

Name: Cavan County Council

Address: Courthouse
Cavan

Telephone Nº: 049 4331799

Planning Permission for this project :-

Obtained ☐ *Is being processed* ☐ *Not applied for* ☐

Local Authority Planning File Reference Nº: _____

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Attachment Nº B.5 should contain all planning permissions including a copy of all conditions. For existing activities, **Attachment Nº B.5** should also contain all licences and permits past and present in force at the time of submission.

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B.6. Relevant Sanitary Authority.

In the case of a discharge of any trade effluent or other matter to a sewer of a sanitary authority, give the name of the sanitary authority in which the sewer is vested or by which it is controlled.

Name: _____

Address: _____

_____

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_____

_____

Telephone Nº: _____

In the case of a discharge of any trade effluent or other matter to a sewer not vested by a sanitary authority, the applicant must supply as **Attachment Nº B.6**; (a) the name and address of the owner(s) of the sewer and the waste water treatment plant to which the sewer discharges and who are responsible for the quality of the treated effluent discharging to waters and (b) a copy of the effluent regulations and the agreement between the applicant and the aforementioned.

Name: _____

Address: _____

_____

_____

_____

Telephone Nº: _____

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B.7. Relevant Health Board Region

The applicant should indicate the Health Board Region where the activity is or will be located.

Name: North Eastern Health Board
Address: Kells
Co. Meath

_____

Telephone Nº: 046 9280500

B.8. Site Notice, Newspaper Advertisement and Planning Authority Notice.

Give the position of the site notice in accordance with article 7 of the Regulations.

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Non Technical Summary:

Bailieboro Foods and Bailie Foods are situated approximately 1km North East of Bailieborough town. The site was granted an IPC Licence in May 2000. The IPC Licence was granted under section 83(1) of the Environmental Protection Agency Act, 1992 where the manufacture of dairy products involves a processing capacity in excess of 50 million gallons of milk per year.

Processing on the site involves the production of 30000 tonnes of butter and 30000 tonnes of milk powder approximately per year. The vast majority of the production is for export mainly to Europe, Africa and the Far East.

Waste water is treated by the on site waste water treatment plant prior to discharge via spray irrigation system (to be phased out as part of new proposals) This is carried out in accordance with our IPC Licence no 406.

CO2 emissions on site are from combustion of natural gas in Boilers, these boilers can also be run on gas oil in the event of a disruption to gas supply. Diesel / Kerosene oil is used to fire on site emergency generators and heating. Propane is also used for heating.

The company has ISO 14000:1996, ISO 9000:2000 and BRC (higher level) accreditation

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Annex 1 Tables/Attachments

Attachment 1 Site Location Map

Attachment 2 Map of Emission Points

Attachment 3 Proposal for Constructed Wetland

Attachment 4 Nutrient Management Plan

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TABLE E.1(i) BOILER EMISSIONS TO ATMOSPHERE (1 Page for each emission point)

Emission Point:

Emission Point Ref. Nº:	A1
Location :	Boiler House
Grid Ref. (12 digit, 6E,6N):	E267812E, N298005
Vent Details Diameter: Height above Ground(m):	 0.7m core 25m
Date of commencement of emission:	1985

Characteristics of Emission :

Boiler rating Steam Output: Thermal Input:	 9000 kg/hr 7.7 MW
Boiler fuel Type: Maximum rate at which fuel is burned % sulphur content:	 Natural Gas (gas oil to be burned approx 6 hrs / month and during disruption of natural gas supply) Tallow Natural Gas 705 m3 / hr, Tallow / Gas oil 600 kg/ hr 0
NOx	64 mg/Nm^3 0°C. 3% O_2(Liquid or Gas), 6% O_2(Solid Fuel)
Maximum volume of emission	Natural Gas 14689 m^3/hr, Tallow / Gas oil 14262 m3 hr
Temperature	230 °C(max) 185 °C(min) 200 °C(avg)

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(i) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up/shutdown to be included):*

Periods of Emission (avg)	60 min/hr 24 hr/day 315 day/yr

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TABLE E.1(i) BOILER EMISSIONS TO ATMOSPHERE (1 Page for each emission point)

Emission Point:

Emission Point Ref. N°:	A2
Location :	Boiler House
Grid Ref. (12 digit, 6E,6N):	E2677812, N298005
Vent Details Diameter: Height above Ground(m):	 0.7m core 25m
Date of commencement of emission:	1985

Characteristics of Emission :

Boiler rating Steam Output: Thermal Input:			9000 kg/hr 7.7 MW
Boiler fuel Type: Maximum rate at which fuel is burned % sulphur content:			Natural Gas (gas oil to be burned approx 6 hrs / month and during disruption of natural gas supply) Tallow Natural Gas 705 m3 / hr, Tallow / Gas oil 600 kg/ hr 0
NOx			64 mg/Nm^3 0°C. 3% O_2(Liquid or Gas), 6% O_2(Solid Fuel)
Maximum volume of emission			Natural Gas 14689 m^3/hr, Tallow / Gas oil 14262 m3 hr
Temperature	230 °C(max)	185 °C(min)	200 °C(avg)

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(i) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up/shutdown to be included):*

Periods of Emission (avg)	60 min/hr 24 hr/day 315 day/yr

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TABLE E.1(i) BOILER EMISSIONS TO ATMOSPHERE (1 Page for each emission point)

Emission Point:

Emission Point Ref. No:	A5
Location :	Boiler House
Grid Ref. (12 digit, 6E,6N):	E267814E, N297985
Vent Details Diameter: Height above Ground(m):	 0.7m core 25m
Date of commencement of emission:	1980

Characteristics of Emission :

Boiler rating Steam Output: Thermal Input:			11340 kg/hr 9.7 MW
Boiler fuel Type: Maximum rate at which fuel is burned % sulphur content:			Natural Gas (gas oil to be burned approx 6 hrs / month and during disruption of natural gas supply) Natural Gas 888 m3 / hr, Gas oil 750 kg/ hr 0
NOx			64 mg/Nm^3 0°C. 3% O_2(Liquid or Gas), 6% O_2(Solid Fuel)
Maximum volume of emission			Natural Gas 17846 m^3/hr, Gas oil 18596 m3 hr
Temperature	230 °C(max)	190 °C(min)	200 °C(avg)

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(i) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up/shutdown to be included):*

Periods of Emission (avg)	60 min/hr 24 hr/day 315 day/yr

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TABLE E.1(i) BOILER EMISSIONS TO ATMOSPHERE (1 Page for each emission point)

Emission Point:

Emission Point Ref. N°:	A6
Location :	Boiler House
Grid Ref. (12 digit, 6E,6N):	E267814, N297985
Vent Details Diameter: Height above Ground(m):	 0.7m core 25m
Date of commencement of emission:	1980

Characteristics of Emission :

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Boiler rating Steam Output: Thermal Input:			11340 kg/hr 9.7 MW
Boiler fuel Type: Maximum rate at which fuel is burned % sulphur content:			Natural Gas (gas oil to be burned approx 6 hrs / month and during disruption of natural gas supply) Natural Gas 888 m3 / hr, Gas oil 750 kg/ hr 0
NOx			64 mg/Nm^3 0°C. 3% O_2(Liquid or Gas), 6% O_2(Solid Fuel)
Maximum volume of emission			Natural Gas 17846 m^3/hr, Gas oil 18596 m3 hr
Temperature	230 °C(max)	190 °C(min)	200 °C(avg)

(i) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up/shutdown to be included):*

Periods of Emission (avg)	60 min/hr 24 hr/day 315 day/yr

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Emission Point Ref. Nº:	A25
Location :	Boiler House
Grid Ref. (12 digit, 6E,6N):	E267825, N298016
Vent Details Diameter: Height above Ground(m):	 1.48m core 25m
Date of commencement of emission:	July 2006

Characteristics of Emission :

Boiler rating Steam Output: Thermal Input:			Gas Turbine Heat Recovery Boiler 12000 kg/hr 9885(from gas turbine exhaust) MW
Boiler fuel Type: Maximum rate at which fuel is burned % sulphur content:			Gas Turbine Heat Recovery Boiler Primary Fuel: Natural Gas (turbine) Backup Fuel: Gas Oil / Tallow (turbine) Primary Fuel: 1397 Kg/hr (Gas Turbine) Backup Fuel: 1386 Kg/hr (GAS Turbine) Not Applicable
NOx			Primary Fuel: 300 mg/Nm^3 Backup Fuel: 450 mg/Nm^3 0°C. 15% O^2 (Gas Turbine Exhaust)
Maximum volume of emission			61420 m3 hr
Temperature	145 °C(max)	115 °C(min)	130 °C(avg)

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(i) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up/shutdown to be included):*

Periods of Emission (avg)	60 min/hr 24 hr/day 350 day/yr

TABLE E.1(ii) MAIN EMISSIONS TO ATMOSPHERE (1 Page for each emission point)

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Emission Point Ref. N°:	A3
Source of Emission:	Air Exhaust from Milk Powder Spray Drier
Location :	Milk Powder Spray Drier
Grid Ref. (12 digit, 6E,6N):	E267765, N298037
Vent Details Diameter: Height above Ground(m):	 2.17 34m
Date of commencement:	2000

Characteristics of Emission :

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(i) Volume to be emitted:			
Average/day	2880000 m^3/d	Maximum/day	3360000 m^3/d
Maximum rate/hour	140000 m^3/h	Min efflux velocity	11.6 $m.sec^{-1}$
(ii) Other factors			
Temperature	95 °C(max)	65 °C(min)	68 °C(avg)
For Combustion Sources:95 Volume terms expressed as : ☐ wet. ☐ dry. _____ $\%O_2$			

(iii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included):*

Periods of Emission (avg)	60 min/hr 24 hr/day 350 day/yr

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TABLE E.1(iii): MAIN EMISSIONS TO ATMOSPHERE - Chemical characteristics of the emission (1 table per emission point)

Emission Point Reference Number: *A3*

Parameter	Prior to treatment[1]				Brief description of treatment	As discharged[1]					
	mg/Nm^3		kg/h			mg/Nm^3		kg/h.		kg/year	
	Avg	Max	Avg	Max		Avg	Max	Avg	Max	Avg	Max
Milk Powder					Bag Filters	7	20	0.8	2.5	7000	21900

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1. Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C,101.3kPa). Wet/dry should be the same as given in Table E.1(ii) unless clearly stated otherwise.

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TABLE E.1(iv): EMISSIONS TO ATMOSPHERE - Minor atmospheric emissions

Emission point Reference Numbers	Description	Emission details[1]				Abatement system employed
		material	mg/Nm$^{3(2)}$	kg/h.	kg/year	
A4	Dust Extractor from Bagging Room	Milk Powder				Cyclone
A7	Dust Extractor from Bulk Loading System	Milk Powder				Filter
A8	Cooling Tower (Evaporator)	Water Vapour				Drift Elimination
A9	Cooling Tower (Cooling Water)	Water Vapour				Drift Elimination
A10	Evaporative Condensers	Water Vapour				Deflector
A11	Central Heating Boiler, Bailie Foods LPG	Combustion By-Products				
A12	Central Heating Boiler, Offices Gas Oil	Combustion By-Products				
A13	Central Heating Boiler, Lab Gas Oil	Combustion By-Products				
A14	Space Heaters, Stores, Gas Oil	Combustion By-Products				
A15	Central Heating Boiler, Intake Lab Gas Oil	Combustion By-Products				
A16	Stand by Generator, Creamery, Gas Oil	Combustion By-Products				

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A17	Stand by Generator, Bailie Foods, Gas Oil	Combustion By-Products				
A18	Stand by Generator, Offices, Gas Oil	Combustion By-Products				
A19	Stand by Generator, Effluent Plant, Gas Oil	Combustion By-Products				
A20	Laboratory Fume Cupboard	Negligible				
A21	Condensor Bagging Room	Negligible				

1 The maximum emission should be stated for each material emitted, the concentration should be based on the maximum 30 minute mean.
2 Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C101.3kPa). Wet/dry should be clearly stated. Include reference oxygen conditions for combustion sources.

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TABLE E.1(v): EMISSIONS TO ATMOSPHERE - Potential atmospheric emissions

Emission point ref. no. (as per flow diagram)	Description	Malfunction which could cause an emission	Emission details (Potential max. emissions)[1]		
			Material	mg/Nm^3	kg/hour
A22	Powder Explosion through explosion doors on drier	Ignition Powder explosion	Milk Powder	Unknown	<500 Kg single incident
A23	Ammonia escape through safety valve at refrigeration plant	Over pressure resulting from heat of a fire	Ammonia	Unknown	<500Kg in system
A24	Steam venting through safety valves on boiler vessels and plant	Failure of pressure reducing valves	Steam	Unknown	5000

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[1] Estimate the potential maximum emission for each malfunction identified.

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TABLE E.2(i): EMISSIONS TO SURFACE WATERS
(One page for each emission)

Emission Point:

Emission Point Ref. Nº:	W1
Source of Emission:	Cooling Water System
Location :	Refrigeration Plant
Grid Ref. (10 digit, 5E,5N):	267611E, 298039N
Name of receiving waters:	River Lear
Flow rate in receiving waters:	0.1 $m^3.sec^{-1}$ Dry Weather Flow 0.3 $m^3.sec^{-1}$ 95%ile flow
Available waste assimilative capacity:	7 kg/day

Emission Details:

(i) Volume to be emitted			
Normal/day	1000 m^3	Maximum/day	1450 m^3
Maximum rate/hour	62 m^3		

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(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included):*

Periods of Emission (avg)	60 min/hr	20 hr/day	365day/yr

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TABLE E.2(ii): EMISSIONS TO SURFACE WATERS - Characteristics of the emission (1 table per emission point)

Emission point reference number : *W1*

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	
Ammonia					1.4	1.4	1.68	240	
Orthophosphate					0.6	0.6	0.7	132	
BOD					4	4	4.8	1100	
Suspended Solids					7	7	8.4	1375	

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TABLE E.2(i): EMISSIONS TO SURFACE WATERS
(One page for each emission)

Emission Point:

Emission Point Ref. Nº:	W3
Source of Emission:	Treated Effluent Discharge (Constructed Wetland)
Location :	River Lear
Grid Ref. (10 digit, 5E,5N):	267950E, 298120N
Name of receiving waters:	River Lear
Flow rate in receiving waters:	0.1 $m^3.sec^{-1}$ Dry Weather Flow 0.3 $m^3.sec^{-1}$ 95%ile flow
Available waste assimilative capacity:	7 kg/day

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Emission Details:

(i) Volume to be emitted			
Normal/day	350 m^3	Maximum/day	650 m^3
Maximum rate/hour	35 m^3		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included):*

Periods of Emission (avg)	60 min/hr	24 hr/day	365day/yr

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TABLE E.2(ii): EMISSIONS TO SURFACE WATERS - Characteristics of the emission (1 table per emission point)

Emission point reference number : *W3*

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	
Ammonia NH4 as N					0.1	0.1	0.035	12	
Orthophosphate					0.05	0.05	.0175	6	
BOD					3	3	0.7	175	
Suspended Solids					5	5	1.75	475	
Nitrite as N					4	4	1.4	500	

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TABLE E.3(ii): EMISSIONS TO SEWER - Characteristics of the emission (1 table per emission point)

Emission point reference number : _____

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	

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TABLE E.4(i): EMISSIONS TO GROUND (1 Page for each emission point)

Emission Point or Area:

Emission Point/Area Ref. Nº:	
Emission Pathway: (borehole, well, percolation area, soakaway, landspreading, etc.)	
Location :	
Grid Ref. (10 digit, 5E,5N):	
Elevation of discharge: (relative to Ordnance Datum)	
Aquifer classification for receiving groundwater body:	
Groundwater vulnerability assessment (including vulnerability rating):	
Identity and proximity of groundwater sources at risk (wells, springs, etc):	
Identity and proximity of surface water bodies at risk:	

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Emission Details:

(i) Volume to be emitted			
Normal/day	m^3	Maximum/day	m^3
Maximum rate/hour	m^3		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included):*

Periods of Emission (avg)	_____min/hr _____hr/day _____day/yr

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TABLE E.4(ii): EMISSIONS TO GROUND - Characteristics of the emission (1 table per emission point)

Emission point/area reference number : _____

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	

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Table E.5(i): NOISE EMISSIONS - Noise sources summary sheet

Source	Emission point Ref. No	Equipment Ref. No	Sound Pressure[1] dBA at reference distance	Octave bands (Hz) Sound Pressure[1] Levels dB(unweighted) per band									Impulsive or tonal qualities	Periods of Emission
				31.5	63	125	250	500	1K	2K	4K	8K		

1. For items of plant sound power levels may be used.

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TABLE F.1(i): ABATEMENT / TREATMENT CONTROL

Emission point reference number : *A1*

Control[1] parameter	Equipment[2]	Equipment maintenance	Equipment calibration	Equipment back-up
Oxygen level in flue gas	Oxygen trim control on boilers using Saacke ETC2500	Annual Service by Boiler Service company	12 months intervals	Boiler controlled to lockout on equipment failure

Control[1] parameter	Monitoring to be carried out[3]	Monitoring equipment	Monitoring equipment calibration
Oxygen level in flue gas	Visual display for each boiler	Saacke ETC2500	12 months

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[1] List the operating parameters of the treatment / abatement system which control its function.
[2] List the equipment necessary for the proper function of the abatement / treatment system.
[3] List the monitoring of the control parameter to be carried out.

TABLE F.1(i): ABATEMENT / TREATMENT CONTROL

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Emission point reference number : *A2*

Control[1] parameter	Equipment[2]	Equipment maintenance	Equipment calibration	Equipment back-up
Oxygen level in flue gas	Oxygen trim control on boilers using Saacke ETC2500	Annual Service by Boiler Service company	12 months intervals	Boiler controlled to lockout on equipment failure

Control[1] parameter	Monitoring to be carried out[3]	Monitoring equipment	Monitoring equipment calibration
Oxygen level in flue gas	Visual display for each boiler	Saacke ETC2500	12 months

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[1] List the operating parameters of the treatment / abatement system which control its function.
[2] List the equipment necessary for the proper function of the abatement / treatment system.
[3] List the monitoring of the control parameter to be carried out.

TABLE F.1(i): ABATEMENT / TREATMENT CONTROL

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Emission point reference number : *A5*

Control[1] parameter	Equipment[2]	Equipment maintenance	Equipment calibration	Equipment back-up
Oxygen level in flue gas	Oxygen trim control on boilers using Saacke ETC2500	Annual Service by Boiler Service company	12 months intervals	Boiler controlled to lockout on equipment failure

Control[1] parameter	Monitoring to be carried out[3]	Monitoring equipment	Monitoring equipment calibration
Oxygen level in flue gas	Visual display for each boiler	Saacke ETC2500	12 months

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[1] List the operating parameters of the treatment / abatement system which control its function.
[2] List the equipment necessary for the proper function of the abatement / treatment system.
[3] List the monitoring of the control parameter to be carried out.

TABLE F.1(i): ABATEMENT / TREATMENT CONTROL

Emission point reference number : *A6*

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Control[1] parameter	Equipment[2]	Equipment maintenance	Equipment calibration	Equipment back-up
Oxygen level in flue gas	Oxygen trim control on boilers using Saacke ETC2500	Annual Service by Boiler Service company	12 months intervals	Boiler controlled to lockout on equipment failure

Control[1] parameter	Monitoring to be carried out[3]	Monitoring equipment	Monitoring equipment calibration
Oxygen level in flue gas	Visual display for each boiler	Saacke ETC2500	12 months

[1] List the operating parameters of the treatment / abatement system which control its function.
[2] List the equipment necessary for the proper function of the abatement / treatment system.
[3] List the monitoring of the control parameter to be carried out.

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TABLE F.1(i): ABATEMENT / TREATMENT CONTROL

Emission point reference number : *A3*

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Control[1] parameter	Equipment[2]	Equipment maintenance	Equipment calibration	Equipment back-up
Dust Concentration mg/m3	Continuous dust monitor	Annual Service by Service company	12 months intervals	

Control[1] parameter	Monitoring to be carried out[3]	Monitoring equipment	Monitoring equipment calibration
Dust Concentration mg/m3	On line monitor display	PCME DT770	12 months
Dust Concentration mg/m3	Annually by DRPC Moorepark	Isokinetic sampling and analysis	DRPC

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[1] List the operating parameters of the treatment / abatement system which control its function.
[2] List the equipment necessary for the proper function of the abatement / treatment system.
[3] List the monitoring of the control parameter to be carried out.

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TABLE F.2(i) : EMISSIONS MONITORING AND SAMPLING POINTS - (1 table per monitoring point)

Emission Point Reference No. : A1, A2, A5, A6

Parameter	Monitoring frequency	Accessibility of Sampling Points	Sampling method	Analysis method/ technique
O2	Fortnightly	On line in flue at each boiler	Maester 2000 flue gas analyser	In boiler flue
CO2	Fortnightly	On line in flue at each boiler	Maester 2000 flue gas analyser	In boiler flue
NOX	Fortnightly	On line in flue at each boiler	Maester 2000 flue gas analyser	In boiler flue
SOX	Fortnightly	On line in flue at each boiler	Maester 2000 flue gas analyser	In boiler flue
Temperature	Fortnightly	On line in flue at each boiler	Maester 2000 flue gas analyser	In boiler flue
Efficiency	Fortnightly	On line in flue at each boiler	Maester 2000 flue gas analyser	In boiler flue

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TABLE F.2(i) : EMISSIONS MONITORING AND SAMPLING POINTS - (1 table per monitoring point)

Emission Point Reference No. : A3

Parameter	Monitoring frequency	Accessibility of Sampling Points	Sampling method	Analysis method/ technique
Dust Concentration	Continuous	In line on Drier stack	ISO Kinetic sampling	ISO

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TABLE F.2(i) : EMISSIONS MONITORING AND SAMPLING POINTS - (1 table per monitoring point)

Emission Point Reference No. : W1

Parameter	Monitoring frequency	Accessibility of Sampling Points	Sampling method	Analysis method/ technique
Temperature	Continuous	River Level		Probes
BOD	Weekly	at river level	Grab	Standard Method
Ph	Weekly	at river level	Grab	Ph Meter
Conductivity	Weekly	at river level	Grab	Standard Method

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TABLE F.2(i) : EMISSIONS MONITORING AND SAMPLING POINTS - (1 table per monitoring point)

Emission Point Reference No. : W2 a-j

Parameter	Monitoring frequency	Accessibility of Sampling Points	Sampling method	Analysis method/ technique
Visual Inspection	Visual inspection weekly			
BOD	monthly	at river level	Grab	Standard Method
Ph	monthly	at river level	Grab	Ph Meter
Conductivity	monthly	at river level	Grab	Standard Method

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TABLE F.2(ii): AMBIENT ENVIRONMENT MONITORING AND SAMPLING POINTS(1 table per monitoring point)

Monitoring Point Reference No : W3.1, W3.2, W3.3

Parameter	Monitoring frequency	Accessibility of Sampling point	Sampling method	Analysis method / technique
Ph	Weekly	River Level	Composite	Probe

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BOD	Weekly	River Level	Composite	Standard Method
Suspended Solids	Weekly	River Level	Composite	Standard Method
Nitrates	Weekly	River Level	Composite	Standard Method
Total Ammonia	Weekly	River Level	Composite	Standard Method
Orthophosphate	Weekly	River Level	Composite	Standard Method

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Table G.1(i) Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site

Ref. Nº or Code	Material/ Substance[1]	CAS Number	Danger[2] Category	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	R[3] - Phrase	S[3] - Phrase

Notes: 1. In cases where a material comprises a number of distinct and available dangerous substances, please give details for each component substance.
2. c.f. Article 2(2) of SI Nº 77/94
3. c.f. Schedules 2 and 3 of SI Nº 77/94

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Table G.1(ii) Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site

Ref. Nº or Code	Material/ Substance[1]	TA Luft Class 1, 2 or 3	Odour			EU Lists I and II (Tick and specify Group/Family Number)			
			Odourous Yes/No	Description	Threshold µg/m³	Dangerous Substances Directive 76/464/EEC		Groundwater Directive 80/68/EEC	
						List I	List II +129[4]	List I	List II

Notes (cont.): 4. The European Commission priority candidate list

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TABLE H.1(i): WASTE - Hazardous Waste Recovery/Disposal

Waste material	EWC Code	Main source[1]	Quantity		On-site Recovery/Disposal (Method & Location)	Off-site Recovery, reuse or recycling (Method, Location & Undertaker)	Off-site Disposal (Method, Location & Undertaker)
			Tonnes / month	m^3 / month			
Laboratory Waste	070104 / 060404		.08			R2, Shannon Environmental Services, Shannon, Co. Clare	
Fluorescent Tubes	200121		0.01			R4, Irish Lamp Recycling, Athy, Co.Kildare	
Septic Tank Sludge	200304		0.6				D8, PC Drain Cleaning, Crossdowney, Co.Cavan. Cavan Landfill.

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[1] A reference should be made to the main activity / process for each waste.

TABLE H.1(ii) WASTE - Other Waste Recovery/Disposal

Waste material	EWC Code	Main source[1]	Quantity		On-site recovery/disposal[2] (Method & Location)	Off-site Recovery, reuse or recycling (Method, Location & Undertaker)	Off-site Disposal (Method, Location & Undertaker)
			Tonnes / month	m^3 / month			

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Bio-Solids from Effluent Treatment Plant	020502		200				D2, Lexie Bell, Bailieborough, Co. Cavan. See NMP attached
General Waste	200301		11				D1, Cavan Waste Disposal, Cavan Landfill.
Scrap Metal	170407		3				R4, V&W Recycling, Dundalk, Co.Louth
Cardboard / Shredded Paper	150102		1				R3, V&W Recycling, Dundalk, Co.Louth
Plastic	150102		0.7				R3, V&W Recycling, Dundalk, Co.Louth

1 A reference should be made to the main activity/ process for each waste.
2 The method of disposal or recovery should be clearly described and referenced to Attachment H.1

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Table I.2(i) SURFACE WATER QUALITY

(Sheet 1 of 2) Monitoring Point/ Grid Reference: _____

Parameter	Results (mg/l)				Sampling method[2] (grab, drift etc.)	Normal Analytical Range[2]	Analysis method / technique
	Date	Date	Date	Date			
pH							
Temperature							
Electrical conductivity EC							
Ammoniacal nitrogen NH_4-N							
Chemical oxygen demand							
Biochemical oxygen demand							
Dissolved oxygen DO							
Calcium Ca							
Cadmium Cd							
Chromium Cr							
Chloride Cl							
Copper Cu							
Iron Fe							
Lead Pb							
Magnesium Mg							
Manganese Mn							
Mercury Hg							

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Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			
Nickel Ni							
Potassium K							
Sodium Na							
Sulphate SO_4							
Zinc Zn							
Total alkalinity (as $CaCO_3$)							
Total organic carbon TOC							
Total oxidised nitrogen TON							
Nitrite NO_2							
Nitrate NO_3							
Faecal coliforms (/100mls)							
Total coliforms (/100mls)							
Phosphate PO_4							

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Table I.4(i) GROUNDWATER QUALITY

(Sheet 1 of 2) Monitoring Point/ Grid Reference: _____

Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			
pH							

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Temperature							
Electrical conductivity EC							
Ammoniacal nitrogen NH_4-N							
Dissolved oxygen DO							
Residue on evaporation (180^0C)							
Calcium Ca							
Cadmium Cd							
Chromium Cr							
Chloride Cl							
Copper Cu							
Cyanide Cn, total							
Iron Fe							
Lead Pb							
Magnesium Mg							
Manganese Mn							
Mercury Hg							
Nickel Ni							
Potassium K							
Sodium Na							

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GROUNDWATER QUALITY (SHEET 2 OF 2)

Parameter	Results (mg/l)				Sampling method (composite, dipper etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			
Phosphate PO_4							
Sulphate SO_4							
Zinc Zn							
Total alkalinity (as $CaCO_3$)							
Total organic carbon TOC							
Total oxidised nitrogen TON							

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Arsenic As							
Barium Ba							
Boron B							
Fluoride F							
Phenol							
Phosphorus P							
Selenium Se							
Silver Ag							
Nitrite NO_2							
Nitrate NO_3							
Faecal coliforms (/100mls)							
Total coliforms (/100mls)							
Water level (m OD)							

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TABLE I.4(ii): LIST OF OWNERS/FARMERS OF LAND

Land Owner	Townlands where landspreading	Map Reference	Fertiliser P requirement for each farm
John Allen	Moynalty	273E, 2831N	628.2 Kg
Patrick OReilly	Seefin	261083E, 299152N	932.85 Kg
Tom Lynch	Feagh	2690E, 2786N	947.9 Kg
Sean Gilsenan	Loughan	2690E, 2786N	1398.1 Kg
Mel Kilrane	Hurelstown	278539E, 273751N	1896.02 Kg
Christopher Gibney	Carnaross	2690E, 2786N	777.86 Kg

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Total P requirement of the client List _____6580.93 Kg_____

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TABLE I.4(ii): LANDSPREADING

Land Owner/Farmer_____John Allen_____

Map Reference_____273E, 2831N_____

Field ID	Total Area (ha)	(a) Usable Area (ha)	Soil P Test Mg/l	Date of P test	Crop	P Required (kg P/ha)	Volume of On-Farm Slurry Returned (m^3/ha)	Estimated P in On-Farm Slurry (kg P/ha)	(b) Volume to be Applied (m^3/ha)	P Applied (kg P/ha)	Total Volume of imported slurry per plot (m^3)
1	8	6.87	2	8/04	grass	16	50	38.5	72.5	39.4	22.5
2	5.86	4.69	2	5/04	grass	16	100	77	112.0	21.0	12.0
3	5.23	4.71	2	5/04	grass	16	100	77	112.0	21.0	12.0
4	9.57	8.14	2	5/04	grass	16			67.0	117.2	67.0
5	9.2	8.74	3	5/04	grass	6			27.0	47.2	27.0
6	8.3	7.15	2	5/04	grass	16			58.8	103.0	58.8
7	3.35	3.02	2	8/04	grass	6	30	23.1	30.0		0
8	27.63	8.78	3	5/04		6			27.1	47.4	27.1
9	8.11	2.7		none							

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TOTAL VOLUME THAT CAN BE IMPORTED ON TO THE FARM.

Concentration of P in landspread material	1.75 - kg P/m^3
Concentrarion of N in landspread material	5 - kg N/m^3

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TABLE I.4(ii): LANDSPREADING

Land Owner/Farmer_____Tom Lynch_____

Map Reference_____2690E, 2786N_____

Field ID	Total Area (ha)	(a) Usable Area (ha)	Soil P Test Mg/l	Date of P test	Crop	P Required (kg P/ha)	Volume of On-Farm Slurry Returned (m^3/ha)	Estimated P in On-Farm Slurry (kg P/ha)	(b) Volume to be Applied (m^3/ha)	P Applied (kg P/ha)	Total Volume of imported slurry per plot (m^3)
1	10.14	5.58	2	8/04	grass	16			45.9	80.4	45.9
2	11.84	9.4		none	grass	0					
3	7.52	6.77	2	804	grass	16	100	77	100		
4	18.25	8.15	2	804	grass	16	100	77	100		
5	4.08	3.31	4	804	grass	0	50	38.5	50		
6	10.18	6.36	3	8/04	grass	9			29.4	51.5	29.4
7	7.84	4.75		none	grass						
8	10.24	8.89	1	8/04	grass	26			118.9	208.0	118.9
9	4.71	3.94	2	8/04	grass	16			32.4	56.7	32.4
10	7.73	7.23	2	8/04	setasi	16			59.5	104.1	59.5
11	11.5	9.55	2	8/04	de	16			78.6	137.5	78.6

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TOTAL VOLUME THAT CAN BE IMPORTED ON TO THE FARM.

Concentration of P in landspread material	1.75 - kg P/m^3
Concentrarion of N in landspread material	5 - kg N/m^3

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TABLE I.4(ii): LANDSPREADING

Land Owner/Farmer_____Patrick O'Reilly_____

Map Reference_____2610831E, 299152N_____

Field ID	Total Area (ha)	(a) Usable Area (ha)	Soil P Test Mg/l	Date of P test	Crop	P Required (kg P/ha)	Volume of On-Farm Slurry Returned (m^3/ha)	Estimated P in On-Farm Slurry (kg P/ha)	(b) Volume to be Applied (m^3/ha)	P Applied (kg P/ha)	Total Volume of imported slurry per plot (m^3)
1	9.04	8.0			grass	0	100	77	100.0		
2	8.15	7.2	1	5/03	grass	29	50	38.5	118.9	120.5	68.9
3	7.48	4.9	1	5/03	grass	19			47.9	83.8	47.9
4	23.3	22.5	1	5/03	grass	19	100	77	242.9	250.0	142.9
5	2.37	2.27	1	5/03	grass	19			22.2	38.8	22.2
6	2.86	2.66	1	5/03	grass	16			21.9	38.3	21.9
7	5.89	5.56	1	5/03	grass	16			45.8	80.1	45.8
8	1.94	1.8	1	5/03		16			14.8	25.9	14.8

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TOTAL VOLUME THAT CAN BE IMPORTED ON TO THE FARM.

Concentration of P in landspread matterial	1.75 - kg P/m^3
Concentrarion of N in landspread material	5 - kg N/m^3

TABLE I.4(ii): LANDSPREADING

Land Owner/Farmer_____Sean Gilsenan_____

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Map Reference_____2690E, 2786N_____

Field ID	Total Area (ha)	(a) Usable Area (ha)	Soil P Test Mg/l	Date of P test	Crop	P Required (kg P/ha)	Volume of On-Farm Slurry Returned (m^3/ha)	Estimated P in On-Farm Slurry (kg P/ha)	(b) Volume to be Applied (m^3/ha)	P Applied (kg P/ha)	Total Volume of imported slurry per plot (m^3)
1	10.5	7.73	2	8/04	grass	16	50	38.5	50	0	0
2	8.76	7.27	1	8/04	grass	26			97.2	170.1	97.2
3	9.13	6.85	2	8/04	grass	16			56.4	98.6	56.4
4	9.5	8.55	2	8/04	grass	16	50	38.5	50	0	0
5	11.63	9.44	2	8/04	grass	16	30	23.1	84.6	95.5	54.6
6	3.2	2.88	1	8/04	grass	26	20	15.4	20	0	0
7	11.77	6.29	2	8/04	grass	16	50	38.5	50	0	0
8	6.75	6.07	4	8/04	Silage	0			0	0	0
9	6.55	4.85	2	8/04	Barley	16			39.9	69.8	39.9
10	8.25	5.93	2	8/04		16			48.8	85.4	48.8
11	11.26	4.84	2	8/04		35			87.1	152.5	87.1
13	12.67	9.42	4	6/04		0			0	0	0
14	8.55	5.21	3	none		0			0	0	0
15	11.87	10.66	2	8/04		16			87.7	0	87.7
16	8.87	7.98	4	5/06		0			0	153.5	0
17	4.35	3.91	4	none		0			0		0
18	1.89	1.15		none					0		0

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TOTAL VOLUME THAT CAN BE IMPORTED ON TO THE FARM.

Concentration of P in landspread matterial	1.75 - kg P/m^3
Concentrarion of N in landspread material	5- kg N/m^3

TABLE I.4(ii): LANDSPREADING

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Land Owner/Farmer_____ Mel Kilrane_____

Map Reference_____278539E, 273751N_____

Field ID	Total Area (ha)	(a) Usable Area (ha)	Soil P Test Mg/l	Date of P test	Crop	P Required (kg P/ha)	Volume of On-Farm Slurry Returned (m^3/ha)	Estimated P in On-Farm Slurry (kg P/ha)	(b) Volume to be Applied (m^3/ha)	P Applied (kg P/ha)	Total Volume of imported slurry per plot (m^3)
1	7.85	7.85	3	7/04	grass	9	0		36.3	63.6	36.3
2	6.07	6.07	1	7/04	grass	29	0		90.5	158.4	90.5
3	5.74	5.74	1	7/04	grass	29	0		85.6	149.8	85.6
4	3.93	3.93	1	7/04	grass	29	0		58.6	102.6	58.6
5	5.16	5.16	1	7/04	grass	29	0		77	134.7	77
6	5.34	5.34	2	7/04	grass	19	0		52.2	91.3	52.2
7	8.14	8.14	1	7/04	grass	29	0		121.4	212.5	121.4
8	6.25	6.25	1	7/04	Barle	29	0		93.2	163.1	93.2
13	8.99	8.4	3	8/04	y	25	0		108	189	108
14	20.5	18	2	8/04		16	0		148.1	259.2	148.1
15	6.5	6.5	4	8/04		9	0		30.1	52.7	30.1
16	9.19	9	2	8/04		16	0		74.1	129.6	74.1

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TOTAL VOLUME THAT CAN BE IMPORTED ON TO THE FARM.

Concentration of P in landspread matterial	1.75 - kg P/m^3
Concentrarion of N in landspread material	5 - kg N/m^3

TABLE I.4(ii): LANDSPREADING

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Land Owner/Farmer_____Christopher Gibney _____

Map Reference_____2690E, 2786N_____

Field ID	Total Area (ha)	(a) Usable Area (ha)	Soil P Test Mg/l	Date of P test	Crop	P Required (kg P/ha)	Volume of On-Farm Slurry Returned (m^3/ha)	Estimated P in On-Farm Slurry (kg P/ha)	(b) Volume to be Applied (m^3/ha)	P Applied (kg P/ha)	Total Volume of imported slurry per plot (m^3)
1	9.01	8.09	4	5/04	Silag	0	150	115.5	150	0	0
2	8.25	5.06	2	8/04	Silag	16	30	23.1	48.5	32.4	18.5
3	8.18	4.6	2	8/04	grass	16	20	15.4	42.5	39.3	22.5
4	5.46	4.91	2	5/04	grass	16	0		40.4	70.7	40.4
5	8.73	5.85	2	8/04	grass	16	0		48.4	84.2	48.1
6	9.57	9.09	2	8/04	grass	16	0		74.8	130.9	74.8
7	9.11	1.99	2	8/04	grass	16	30	23.1	30	0	0
8	10.69	6.05	2	8/04	grass	16	0		49.8	87.1	49.8
9	11.73	9.38	3	5/04	grass	9	0		43.4	76	43.4
10	7.69	5.79	2	5/04		16	0		47.6	83.4	47.6

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TOTAL VOLUME THAT CAN BE IMPORTED ON TO THE FARM.

Concentration of P in landspread matterial	1.75 - kg P/m^3
Concentrarion of N in landspread material	5 - kg N/m^3

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Table I.7(i) Ambient Noise Assessment

Third Octave analysis for noise emissions should be used to determine tonal noises

	National Grid Reference	Sound Pressure Levels		
	(5N, 5E)	$L(A)_{eq}$	$L(A)_{10}$	$L(A)_{90}$
1. SITE BOUNDARY				
Location 1:	267920E, 297760N	51	54	41
Location 2:	267840E, 298120N	56	52	52
Location 3:	267770E, 298360N	66	62	62
Location 4:	267600E, 298165N	55	53	53
2. NOISE SENSITIVE LOCATIONS				
Location 1:	237700E, 297680N	59	45	45
Location 2:				
Location 3:				
Location 4:				

NOTE: All locations should be identified on accompanying drawings.

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SECTION M DECLARATION

Declaration

I hereby make application for a ~~licence~~ / revised licence, pursuant to the provisions of the Environmental Protection Agency Acts, 1992 and 2003 and Regulations made thereunder.

I certify that the information given in this application is truthful, accurate and complete.

I have no objection to the provision by the Agency or local authority of a copy of the application or parts thereof to any person.

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Signed by : R/Barry **Date :** 26/5/05.
(on behalf of the organisation)

Print signature name: P. J. BARRY

Position in organisation : ENVIRONMENTAL MANAGER.

Company stamp or seal:

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