

SAFETY DATA SHEET

BORD NA MÓNA

BORD NA MÓNA HORTICULTURE LIMITED

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name:	SUPERFINE PEAT
Company:	Bord na Mona Horticulture Limited
Address:	Bord na Mona Main Street Newbridge, County Kildare Ireland
Phone Number:	During normal working hours : 00 353 45 439848 Outside normal working hours: 00 353 45 439848 (messaging service)
Fax Number:	00 353 45 439849

2 COMPOSITION / INGREDIENT INFORMATION

Ingredient Name:		Contents:	
Sphagnum Moss Peat		100.0 %	

3 HAZARDS IDENTIFICATION

Non hazardous

4 FIRST AID MEASURES

Ingestion:	Accidental or deliberate ingestion is unlikely to cause significant toxicity.
Skin contact:	If irritation occurs wash skin thoroughly with water.
Eye contact:	Irrigate thoroughly with water and if discomfort persists, obtain medical attention.
Inhalation:	Remove patient from source of exposure. If asthmatic seek medical advice.

5 FIRE FIGHTING MEASURES

Extinguishing media:	In a fire situation use water, carbon dioxide or foam.
Special hazards:	Non flammable product. Explosive limits: None.



CÚIL NA MÓNA, TOGHER, PORTLAOISE, CO. LAOIS, IRELAND
 TELEPHONE: (0502) 21423. INT: +353-502-21423
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REGISTERED OFFICE: MAIN STREET, NEWBRIDGE, CO. KILDARE
 REGISTERED IN IRELAND NUMBER 303277



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6 ACCIDENTAL RELEASE MEASURES

Precautions:	No special precautions. If serious contamination of drains or watercourses is unavoidable, warn the Local Water Authority.
Containment:	Carefully sweep up and place in a receptacle for disposal. Large spillages should be swept up and placed in containers for disposal.
Protective equipment:	Gloves should be worn when handling peat.

7 HANDLING AND STORAGE

Handling:	Not dangerous if proper industrial standards are applied.
Storage:	Shelf life at least 18 months. Packaging material is printed polythene. No special storage conditions required. Do not store near herbicide.

8 EXPOSURE CONTROL / PERSONAL PROTECTION

UK Occupational Exposure Standard:	Not relevant.
Precautions:	No special requirements. It is recommended that gloves should be worn when handling the peat in gardening applications.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown organic material, odourless.
Properties:	Humified organic residues of shagnum peat moss. Insoluble in water, but will absorb large amounts of water. Bulk Density 150 – 400 grams per litre.

10 STABILITY AND REACTIVITY

Stability:	Stable under normal ambient conditions.
Conditions to avoid:	Extreme temperatures and sources of ignition.
Materials to avoid:	None specific.
Hazardous decomposition products:	Produces smoke if ignited.

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11 TOXICOLOGICAL INFORMATION		
Acute toxicity:	Not applicable	
Allergies:	Persons prone to allergic reactions should confirm that they can handle this product without difficulties.	
Irritancy skin:	Non irritant.	
Irritancy eye:	Non irritant.	
Irritancy respiratory system:	Non irritant.	
Skin sensitisation:	Non sensitiser.	
Chronic effects:	Not applicable.	
12 ECOLOGICAL INFORMATION		
Non toxic natural organic material presenting no ecological hazards.		
13 DISPOSAL		
End user may spread the material on their garden or fields. Packaging may be placed in domestic refuse. Surplus bulk spillage may be disposed of via local authority or waste disposal contractor.		
14 TRANSPORT INFORMATION		
Sin number:	-- Does not apply	
Class number:	-- Does not apply	
15 REGULATORY INFORMATION		
MAFF number: - Does not apply		
Labelling information:		
Health:	Physio-chemical:	Environment:
n/a	n/a	n/a

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16 OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification, since the conditions of the operations mentioned are beyond our control. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text. Bord na Mona Horticulture Limited disclaims any liability for loss or damage resulting from the use of these data, information or suggestions.

RECOMMENDED USE

For use in general gardening and horticultural applications.

Updated on : November 29th 2002

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Marigot Ltd.

(Trading As)

CelticSea Minerals



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SEACAL

1. Product and Company Identification

BOTANICAL NAME: Lithothamnium Coralloides/Lithothamnium Calcareum

SYNONYMS/
TRADE NAMES: SeaCal

SUPPLIED BY: Celtic Sea Minerals,
Strand Farm,
Currabinny, Co. Cork.
IRELAND.
Website: www.celticseaminerals.com

Phone: 353 21 4378377
Fax: 353 21 4378466
Celticsm@indigo.ie

2. Composition Information on Ingredients

Contains: Lithothamnium Coralloides/Lithothamnium Calcareum

3. Hazards Identification

Prolonged exposure to powdered products may cause mechanical irritation to eyes and lungs.

4. First Aid Measures

Exposure Route	Symptom	Treatment
Inhalation	Mild Irritation	Remove from exposure. If recovery is not rapid or complete seek medical attention.
Eye Contact	Irritation	Irrigate thoroughly with water for at least 15 minutes. If irritation persists seek medical attention

MARIGOT LTD. T/A
CELTIC SEA MINERALS
 STRAND FARM
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 Lungar Reg No: 110210



Marigot Ltd.
(Trading as)

CelticSea Minerals



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SEACAL

Ingestion	Mild Irritation	Wash out mouth with water. If patient feels unwell seek medical attention.
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5. Fire Fighting Procedures.

Does not support combustion.

Suitable Fire Extinguishing Media

Use an extinguisher suitable to the cause of the fire.

Hazardous Combustion Products.

N/A

6. Accidental Release Measures

Safety Precautions

Use goggles and dust mask in instances of high dust concentration.

Clear up procedure

Shovel, sweep, vacuum.

7. Handling & Storage

Avoid formation of dust. Local exhaust recommended if handling large quantities.
Store in a cool dry area.

8. Exposure Controls/Personal Protection.

Personal Protective Equipment:

Respiratory Protection:

Approved dust mask in high dust concentrations.

Hand:

Gloves

Eye:

Goggles

Skin:

Lightweight overalls

MARIGOT LTD. T/A

CELTIC SEA MINERALS

STRAND FARM

CURRABINNY CARRIGALINE

CO. CORK, IRELAND

Strand Farm, Currabinny, Carrigaline, Co. Cork, Ireland

Tel: 031 22 45557 Fax: 031 22 72467 Email: celticsm@indigo.ie

Internet: celticsm@indigo.ie

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9. Physical & Chemical Properties

Appearance	Grey, coarse, free flowing material with characteristic seaweed odour.
Decomposition Temperature	>850°C
Flashpoint	N/A
Flammability	Does not support combustion
Solubility	Insoluble in water, alcohol and most organic solvents.

10. Stability & Reactivity

Stability	Stable under normal conditions.
Potentially hazardous reactions	Reacts with acids liberating Carbon Dioxide
Conditions to avoid	N/A
Materials to avoid	Acids.

11. Toxicological Information

Local Effects	Fine powders may irritate the upper respiratory tract, prolonged skin contact may cause irritation to the eyes. Unlikely to be hazardous if swallowed.
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12. Ecological Information

Environmental Effects	Insoluble in water and can easily be separated
Aquatic Toxicity	from aqueous systems by sedimentation or filtration. N/A

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SEACAL

13. Disposal Considerations

Landfill Comply with local authority regulations.

14. Transport Information

Not regulated.

15. Regulatory Information

No risks or hazards. Not regulated. Conform with local authority regulations.

16. Other Information

These products are intended for use as food ingredients and acidity regulators.

The information provided in the MSDS is correct to the best of our knowledge, information and belief at the date of its publication and is in our opinion consistent with the state of general scientific and technical knowledge at that date but we cannot accept liability for any loss, injury or damage which may result from its use.

In compiling this MSDS we have taken into account all proper applications of the material of which we are aware. It is the responsibility of any intermediate supplier to ensure that the information contained in this MSDS is passed to the ultimate user.

If the ultimate user wishes to receive revisions, please notify us and we will make the necessary entry in our records.

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GTSP-Granular Triplesuperphosphate

OCP H

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name :	GTSP-Granular Triplesuperphosphate	
Chemical Name :	Monocalcium Orthophosphate	
Chemical Family :	Inorganic salt	
Synonyms/Brands :	GTSP, 0-46-0, Triple, Calcium Phosphate Monobasic, Acid Calcium Phosphate	
Primary Use :	Crop nutrient	
Responsible Party :	OCP GROU P Angle Route d'El jadida et boulevard de la Grande Ceinture, Casablanca Tel : 212 22 23 04 24 Fax : 212 22 23 06 35	Plant Location: SAFI CHEMICAL PLANT Route Djorf El Youdi BP 219 SAFI Tel :212 044 46 30 89 Fax :212 044 46 24 03

2. COMPOSITION INFORMATION/INERT INGREDIENTS

Component	% Weight	Exposure Guideline		
		Limits	Agency	Type
Calcium Phosphate Monobasic CAS N°.7758-23-8	95 - 98	NE	OSHA ACGIH	All
Iron, Aluminium and Magnesium Sulfates and Silicates CAS N°. (various)	2 - 5	NE	OSHA ACGIH	All

NE = Not established, but the following particulate limits apply to all inert inorganic dusts.

Particulates Not Otherwise Classified (PNOC)	10 mg/m ³	ACGIH	TWA-Inhalable
	3 mg/m ³	ACGIH	TWA-Respirable
Particulates Not Otherwise Regulated (PNOR)	15 mg/m ³	OSHA	TWA-Total Dust
	5 mg/m ³	OSHA	TWA-Respirable

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS	
Eye :	Prolonged contact may cause severe eye irritation, eye burns, and permanent eye
Skin :	Contact may cause mild irritation including redness and a burning sensation.No harmful effects from skin absorption have been reported.
Inhalation (Breathing) :	No information available.Studies by other exposure routes suggest a low degree of hazard by inhalation.
Ingestion (Swallowing) :	Low degree of toxicity by ingestion.
Signs and Symptoms :	Effects of overexposure may include irritation of the nose, throat and digestive tract, nausea,vomiting and diarrhea.

GTSP-Granular Triplexsuperphosphate

Other Comments :	This material contains iron compound(s) of various composition. Effects of overexposure to dusts can include irritation of the eyes and respiratory tract, pneumoconiosis (dust congested lungs) pneumonitis (lung inflammation), coughing, vomiting, diarrhea, abdominal pain and jaundice.
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4. FIRST MEASURES

Eye Contact :	Immediately move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek immediate medical attention. For direct contact, immediately hold eyelids apart and flush the affected eye(s) with clean water for at least 30 minutes. Seek immediate medical attention.
Skin Contact :	Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists, seek medical attention.
Inhalation (Breathing) :	If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.
Ingestion :	First aid is not normally required, however, if swallowed and symptoms develop, seek medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing Media :	Use extinguishing agent suitable for type of surrounding fire. Avoid excessive water to minimize runoff.
Fire Fighting Instructions :	For fires beyond the incipient stage, emergency in the immediate hazard area should wear bunker gear. When the potential hazard is unknown, in enclosed or confined spaces, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid excessive water to minimize runoff.

7. ACCIDENTAL RELEASE MEASURES

	<p>GTSP is a crop nutrient and plant food; however, large spills can harm or kill vegetation.</p> <ul style="list-style-type: none">* Stay upwind and away from spill (dust hazard). Minimize dust generation.* Wear appropriate protective equipment, including respiratory protection, as conditions warrant.* Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways.* Notify appropriate federal, state, and local agencies as may be required.* Sweep up and package appropriately for disposal.
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8. HANDLING AND STORAGE

GTSP-Granular Triplexsuperphosphate

Handling :	Use appropriate respiratory protection is advised when concentrations exceed established exposure limits. Wash thoroughly after handling. Wash contaminated cloth or shoes; Use good personal hygiene practices.
Storage :	When possible store this material in cool, dry, well-ventilated areas to protect product quality. Keep containers tightly closed. Store only in approved containers, if applicable. Keep away from any incompatible materials. Protect containers against physical damage.

EXPOSURE CONTROL / PERSONAL PROTECTION

Precautionary and engineering measures :	Avoid high dust concentration and provide ventilation where necessary.
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Personal Protective Equipment (PPE)

Respiratory :	A NIOSH approved air purifying respirator with a type 95(R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed if workplace conditions warrant a respirator.
Skin :	The use of cloth or leather work gloves is advised to prevent skin contact, possible irritation and absorption.
Eye/Face :	Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.
Other PPE :	A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Tan to black
Odor :	Slight
Flash point :	Not applicable
Autoignition Temperature :	Not applicable
Physical State :	Solid
Molecular Weight of Pure Material :	252,07
Vapor Pressure (mm Hg) :	Not applicable
Solubility in water :	1 lb/gallon / 0,12kg/litre
Specific Gravity :	2,17 - 2,27 (Water = 1)
Bulk density :	68 - 72 lbs/ft ³ (1090 - 1150kg/m ³)
Volatility :	No data available
pH :	2,5 - 2,8 in a 1% solution
Vapor Density (air=1) :	Not applicable
Freezing/Melting point :	288°F / 142°C
Boiling point :	Decomposes.

GTSP-Granular Triplessuperphosphate

11. STABILITY AND REACTIVITY

Chemical Stability :	product is stable under normal conditions of storage, handling and use.
Hazardous reactions/ Decomposition products :	None known.
Conditions to avoid :	None known.
Incompatible Materials :	None known.
Hazardous Polymerization :	Will not occur.

12. ECOLOGICAL INFORMATION

BOC and COD:	No data found.
Ecotoxicity :	May release phosphates which will result in algae growth, increased turbidity, and depleted oxygen. At extremely high concentrations, this may be hazardous to fish or other marine organisms. Release to watercourses may cause effects downstream.

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WASTE Application Form

G.2 Energy Efficiency

A description of the energy used in or generated by the activity must be provided in Attachment G.2.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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G.2 Energy Efficiency

Energy is required for lighting purposes and operating machinery on site and generally supplying electricity to the site office. It is estimated that energy requirements for the current development will be approximately **60,000 KWh** on an annual basis. Because waste quantities to be treated at the site will increase and there will be an energy requirement to run the air-handling units of the in-vessels system, energy requirement will increase at the site. However, an overall increase will be offset by a reduction in emissions from landfill as a result of recycling of organic waste at the facility.

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SECTION H MATERIALS HANDLING

H.1 Waste Types and Quantities – Existing & Proposed

Provide an estimation of the quantity of waste likely to be handled in relation to each class of activity applied for. This information should be included in Table H.1(a).

TABLE H.1(A). QUANTITIES OF WASTE IN RELATION TO EACH CLASS OF ACTIVITY APPLIED FOR

Waste Management Act 3rd Schedule (Disposal) Activities		Waste Management Act 4th Schedule (Recovery) Activities	
Class of Activity Applied For	Quantity (tpa)	Class of Activity Applied For	Quantity (tpa)
Class 1		Class 1	
Class 2		Class 2	25,000
Class 3		Class 3	
Class 4		Class 4	
Class 5		Class 5	
Class 6		Class 6	
Class 7		Class 7	
Class 8		Class 8	
Class 9		Class 9	
Class 10		Class 10	17,500*
Class 11		Class 11	
Class 12		Class 12	
Class 13	1,250	Class 13	

* A maximum of 17,500 (following a 30% reduction in waste by weight) tonnes of waste could potentially be used for land remediation and improvement at the destination where it is consigned to.

In Table H. 1 (B) provide the annual amount of waste handled/to be handled at the facility. Additional information should be included in **Attachment H.1**. The tonnage per annum should be given of that expected for the life of the licence, with at least the next five years tonnages provided.

TABLE H.1(B) ANNUAL QUANTITIES AND NATURE OF WASTE

Year	Non-hazardous waste (tonnes per annum)	Hazardous waste (tonnes per annum)	Total annual quantity of waste (tonnes per annum)
2002	1,913	0	1,913
2003	11,161	0	11,161
2004	10,241	0	10,241
2005	25,000	0	25,000
2006	25,000	0	25,000
2007	25,000	0	25,000
2008	25,000	0	25,000
2009	25,000	0	25,000
2010	25,000	0	25,000
2011*	25,000	0	25,000

* Note there is no closure date forecast for the facility, tonnages have been given for years up to 2011 but it is intended that operation will continue beyond this.

A detailed inventory of the types and quantities of wastes currently handled at the site and proposed to be handled should be submitted as Table H.1 (C).

TABLE H.1 (C) WASTE TYPES AND QUANTITIES

WASTE TYPE	TONNES PER ANNUM (2004)	TONNES PER ANNUM (proposed)* Total 25,000 tonnes	TOTAL (over life of site) tonnes (2002-2004)	TOTAL (over life of site) tonnes (2005-end 2009)**
Household	1,365	7,000	1,448	35,000
Commercial	6,001	8,000	13,663	40,000
Sewage Sludge	2,627	8,000	7,526	40,000
Industrial Non-Hazardous Sludges	248	2,000	678	10,000

* Note the exact mix of wastes accepted can not be predicted, since it depends on commercial forces – the maximum tonnage will remain at 25,000 tpa but the breakdown of the tonnages may vary from shown above.

** - Note it is not intended to close in 2009 but the indicative tonnage over the coming five years is presented. It is intended that operation will continue beyond this.

NOTE: BREAKDOWN OF WASTE ACCEPTED ON SITE (2002-2004)

Year	Industrial Sludge	Sewage Sludge	Household	Commercial	Total
2004	248	2,627	1,365	6,001	10,241
2003	292	3,844	58	6,969	11,161
2002	138	1,055	25	695	1,913
Total					23,315

*** TABLE H.1.2 HAZARDOUS WASTE TYPES AND QUANTITIES**

HAZARDOUS WASTE	DETAILED DESCRIPTION * REFERENCE SHOULD BE MADE TO THE RELEVANT EUROPEAN WASTE CATALOGUE CODES AS PRESENTED BY COMMISSION DECISION 2000/532/EC	Tonnes Per Annum (Existing)	(Tonnes Per Annum Proposed)
Waste Oil		0	0
Oil filters		0	0
Asbestos		0	0
Paint and Ink		0	0
Batteries		0	0
Fluorescent Light Bulbs		0	0
Contaminated Soils		0	0

Attachment H.1 should contain any relevant additional information.

It should be noted that an applicant may be issued with a licence which restricts the type of wastes which may be deposited.

Attachment H.1

Only non-hazardous organic waste will be accepted at the site for composting. Refer to tables H.1(c) and H.1(d) below **Volume 1, Section 5.4 of the EIS** for more information on the type of waste to be accepted at the site.

All waste accepted on site will be non-hazardous waste as defined in the Waste Management Act 1996. The different types of waste and their associated European Waste Categorisation code is given in the table below:



WASTE Application Form

TABLE H.1 (D) WASTE TYPES AND QUANTITIES

Waste Type	EWC Code
Food waste	20 01 08
Green Waste	20 02 01
Soil	20 02 02
Oversize Fines from Composting not suitable to be sold as compost.	20 03 99
Woodchip	03 01 01
Woodchip	03 03 01
Woodchip	20 01 38
Sawdust /Ash	03 01 05
Paper Board	03 03 08
Green Waste	02 01 03
Cardboard	20 01 01
Spent Brewers Grain	02 07 02 02 03 04
Animal Slurry	02 01 06
Milling Waste	02 03 99
Industrial Sludges	
Sludge from Food Industry	02 03 01 02 03 05 02 05 02 02 07 05 02 06 03
Municipal Sludge	
	19 09 01 19 09 02 19 08 05 19 08 12 19 08 14
Gypsum	17 08 02
Vegetable Oil	20 01 25

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H.2 Waste Acceptance Procedures

Procedures for checking waste loads as they arrive at the facility must be included. These should follow the requirements of the Agency's Waste Acceptance Manual. A copy of these procedures and other associated documentation should be included as Attachment H.2.

Attachment H.2.

Refer to **Volume 1, Section 5.4.6 of the EIS** for more information on waste acceptance procedures to be adhered to at the site.

H.3 Waste Handling

Waste handling and the operating procedures used at the facility including waste treatment processes should be described in **Attachment H.3**. Included in the attachment should be information on the plant used on site and on the methods and processes for handling waste on-site. Special requirements hold for contaminated soil facilities, see *Guidance Note*.

Attachment H.3

Refer to **Volume 1, Section 5 of the EIS** for information on proposed waste handling at the site.

H.4 Waste Arisings

Waste Arisings should be considered for all contaminated soil applications. Details of all waste materials generated on the site including, name, description and nature as well as the source(s) should be identified. The quantities of each type of waste generated on an annual/monthly basis should be calculated and stated in Tables H.1(i) and H. 1(ii) of the application form. Applicants should also provide conversion factors used to relate volume (m^3) and tonnage (t) for their waste stream.

Attachment H.4

Prevention and Minimisation, and Recovery of Waste

The material inputs to the composting process are incorporated into the final compost or fertiliser produced at the plant. Organic Gold only intend to accept materials at the site that are suitable for composting. By applying a strict waste acceptance system at the site the amount of waste will be minimised. Also by control and monitoring of the composting process the amount of material usefully recovered will be maximised. Good housekeeping practices will also be employed at the site by management and staff to prevent wastefulness and untidiness. Recyclable materials such as packaging, metals etc. will be separated for recycling where possible

Disposal of waste off-site

As outlined above, the majority of material accepted at the facility will leave in the form of a useful product. Nevertheless a small amount of waste may be generated from for example picking of litter or removal of non-compostable material from the site, or from packaging for materials used on site etc.. Organic Gold will store any waste on site in suitable storage bins or skips as necessary, and will remove waste to an authorised disposal facility in the North East region. Only authorised waste contractors will be employed. A contingency to remove 1,250 tonnes/ per annum is estimated in Table H1(A) but in practice this is not likely to be required.

SECTION I EXISTING ENVIRONMENT & IMPACT OF THE FACILITY

Detailed information is required to enable the Agency to assess the existing environment. This section requires the provision of information on the ambient environmental conditions at the site prior to the commencement of waste management activities or prior to the receipt of a review application.

Where development is proposed to be carried out, being development which is of a class for the time being specified under Article 24 (First Schedule) of the Environmental Impact Assessment Regulations, the information on the state of the existing environment should be addressed in the EIS. **In such cases, it will suffice for the purposes of this section to provide adequate cross-references to the relevant sections in the EIS.**

I.1. Assessment of atmospheric emissions

Describe the existing environment in terms of air quality with particular reference to ambient air quality standards.

Provide a statement whether or not emissions of main polluting substances (as defined in the Schedule of S.I. 394 of 2004) to the atmosphere are likely to impair the environment.

Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

Attachment I.1 should also contain full details of any dispersion modelling of atmospheric emissions from the activity, where required.

Attachment I.1

Refer to **Volume 1, Section 10 of the EIS** for details of potential impacts and proposed mitigation measures for Odour, Dust and Bioaerosols at the site. A report on Odour Dispersion Modelling can be found in **Volume 2, Appendix 2 of the EIS**. No 'main polluting substances' are expected to be emitted.

I.2. Assessment of Impact on Receiving Surface Water

Describe the existing environment in terms of water quality with particular reference to environmental quality standards or other legislative standards. Table I.2(i) should be completed

Provide a statement whether or not emissions of main polluting substances (as defined in the Schedule of S.I. 394 of 2004) to water are likely to impair the environment.



WASTE Application Form

Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

Full details of the assessment and any other relevant information on the receiving environment should be submitted as **Attachment I.2.**

Attachment I.2.

Refer to **Volume 1, Section 8 of the EIS** for details of potential impacts and proposed mitigation measures for surface water.

I.3. Assessment of Impact of Sewage Discharge.

Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

Full details of the assessment and any other supporting information should form **Attachment I.3.**

Attachment I.3

Refer to **Volume 1, Section 7 of the EIS** for details of potential impacts from sewage discharge at the site.

I.4 Assessment of impact of ground/groundwater emissions

The scope and detail of this assessment will depend to a large extent on the extent and type of ground emissions at any site, which in turn are related to the risk. Details should be included in **Attachment I.4.** Comprehensive guidelines are contained in the *Application Guidance Note*, and include particular requirements for landfill and brownfield facilities.

Describe the existing groundwater quality. Tables I.4(i) should be completed.

Attachment I.4

Refer to **Volume 1, Section 7 of the EIS** for details of potential impacts on groundwater (including current condition) and the proposed mitigation measures to protect groundwater at the site.

I.5 Ground and/or groundwater contamination

Summary details of known ground and/or groundwater contamination, historical or current, on or under the site must be given.

Full details including all relevant investigative studies, assessments, or reports, monitoring results, location and design of monitoring installations, plans, drawings, documentation, including containment engineering, remedial works, and any other supporting information should be included in **Attachment I.5.**

The quality of the groundwater at the site was monitored and the results can be found in **Volume 1, Section 7 of the EIS**.

I.6 Noise Impact.

Give details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

Ambient noise measurements

Complete Table I.6(i) in relation to the information required below:

- (i) State the maximum Sound Pressure Levels which will be experienced at typical points on the boundary of the operation. (State sampling interval and duration)
- (ii) State the maximum Sound Pressure Levels which will be experienced at typical noise sensitive locations, outside the boundary of the operation.
- (iii) Give details of the background noise levels experienced at the site in the absence of noise from this operation.

Prediction models, maps, diagrams and supporting documents, including details of noise attenuation and noise proposed control measures to be employed, should form **Attachment I.6**.

Attachment I.6

Refer to **Volume 1, Section 11 of the EIS** for details of potential noise impacts and the proposed measures to mitigate against noise at the site.

I.7 Assessment of Ecological Impacts & Mitigation Measures

The ecology of the site and the surrounding area should be assessed in the vicinity of the large scale waste facilities such as landfill or incinerator developments. An assessment of the ecology should form **Attachment I.7**. Comprehensive guidelines are contained in the *Application Guidance Note*

Attachment I.7

Refer to **Volume 1, Section 8 and 9 of the EIS** for details of potential ecological impacts (aquatic and terrestrial) and the proposed measures to mitigate against these at the site.

SECTION J ACCIDENT PREVENTION & EMERGENCY RESPONSE

Describe the existing or proposed measures, including emergency procedures, to minimise the impact on the environment of an accidental emission or spillage.

Also outline what provisions have been made for response to emergency situations outside of normal working hours, i.e. during night-time, weekends and holiday periods.

Describe the arrangements for abnormal operating conditions including start-up, leaks, malfunctions or momentary stoppages.

Supporting information should form **Attachment J**.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
----------------------------	---	-----------------------------	---

Attachment J –(Refer to Attachments at End of Section)

The following emergency procedures will be followed in the event of an emergency situation arising on the site. An emergency situation would be considered to be any of the following:

- A fire on the site
- A spill of fuel or other contaminants
- A serious accident
- An explosion or discovery of a suspicious item etc.

(The activity does not and could not give rise to an emission into aquifer of List I and List II substances therefore Council Directive 80/68/EEC is not relevant.)

Fire Emergency Procedures

In the event of a fire on site the following procedures will be followed:

1. Evacuate immediate area within the site. Inform other site users.
2. Remain upwind of hazard area.
3. Contact the site supervisor and advise them that an emergency situation has occurred and give them details of the emergency situation. The site/safety supervisor will: -
 - Assess the situation and decide whether or not to use fire extinguishers to quench any minor fire incident. For all other situations the Fire Brigade, Ambulance or Gardaí will be contacted by dialling the Emergency 999 number.
 - Ensure that the site entrance and facility roads are not obstructed or blocked by parked vehicles, which could prevent the emergency vehicles gaining access to the site.
 - Prevent all vehicles from entering the site.

4. All personnel on the site will report to the Designated Assembly Point where the site supervisor can confirm that all personnel are accounted for.
5. Inform the Emergency Services on their arrival of the diesel and oil store on-site and the presence of any hazardous materials on-site.
6. All areas of the site shall remain closed until the site supervisor is fully sure that the site is no safe to access again.

Contamination Spill

In the event of a contamination spill on-site the following procedures will be followed:

1. Contact the site supervisor and advise that a chemical/contamination spill has occurred.
2. The site supervisor will assess the situation and decide on the appropriate action. If necessary other emergency bodies such as the Fire Brigade, the Gardaí, Ambulance and Meath County Council will be contacted.
3. In the event of a spillage, the area will be then treated with spill/contaminant absorbing material. When all contaminants have been absorbed the material will be removed from site to an appropriate approved facility and the area thoroughly cleaned.

Site/Industrial Accident

In the event of an accident on-site the following procedures should be followed:

1. In the event of a serious accident occurring on-site the emergency services will be contacted immediately by dialling 999. The casualty will be attended to with due care until the arrival of the emergency services.
2. If a minor accident occurs on-site, the first aid officer will be contacted and the casualty brought to the site office for treatment. The site first aid box will be stored carefully in the site office and all staff informed of its whereabouts.

An Explosion or Discovery of a Suspicious Item etc.

1. In the event of an explosion or suspicious item being found on site the emergency services will be contacted immediately by dialling 999.
2. All personnel on the site will report to the Designated Assembly Point where the site supervisor can confirm that all personnel are accounted for.
3. No traffic will be allowed to enter the site. Any waste contractors on site will be asked to move their vehicles if safe to do which will be determined safe to do so by the site supervisor.

Emergency Contact Numbers

A list of the emergency numbers as shown in the table below will be posted in a prominent position for all staff members. The following locations should all have a copy of the notice:

1. Administration Office
2. Fertiliser Production building

Emergency Contact Numbers:

Emergency Service	Emergency Number	Local Number
Fire Brigade	999	046 9021666/ 01 6734000
Gardai	999	046 9079930
Ambulance	999	0404 67108

The following table outlines emergency contact numbers for site supervisors outside of normal working hours such as nights, weekends and holidays. These numbers will be forwarded to the local Fire Brigade and Police Station to be used in the case of an emergency outside of working hours.

Contact	Phone Number
John Finnegan	(087) 2621222
Vincent Phelan	(086) 8251722

Recording/Reporting of Emergencies and Accidents

A log of any such emergencies of accidents will be kept by the site supervisor and retained at the site office. The Agency will also be notified and a written report then sent to the Agency in due course.

A Health and Safety Statement for Organic Gold can be found in Attachment J overleaf. Also attached are Truck Driving, manual Handling and First aid training certificates.

Malfunctions of Machinery on Site – Contingency Arrangements

For the most part highly engineered equipment will not be used at the facility. The equipment with the greatest amount of engineering is the Wasteology in-Vessel Composting System. If this were to beak down there could be potential issues with odour generation at the site due to the fact that the material might not be aerated enough. As part of a contingency plan Organic Gold decided to purchase 8 units instead of 6 units, where there would be a surplus of 2 units which could cater for waste that could not be treated in the other units which have broken down or are in need of maintenance and repair.

If a problem arose with the Backhus windrow turner a front loader is available which can be used to turn the windrows.

If a problem arose with the quality of the product and it did not meet the quality requirements specified in the Animal By –Products requirements and those within the Proposed EU Biowaste Directive (2nd Draft) the material will be sent off site for disposal.

Clynch,
Wilkinstown,
Navan,
Co. Meath.

M. & A. Clarke
Farm Health and
Safety Solutions

Tel: (046) 54606
Mobile: (087) 7958111

Health and Safety Statement

Organic Gold (Marketing Ltd.)
Wilkinstown,
Navan,
Co. Meath.

Tel: 046-54149
Mobile: 087-2621222

Signed: _____

Date:

1. **Emergency Telephone Numbers.**

2. **Summary and Report.**

3. **Introduction.**

4. **Risk Assessment and the H.S.A.**

5. **Accident Investigation and Reporting.**

6. **Buildings and Working at Heights.**

7. **Electricity and Machinery.**

8. **Organic Gold Packing Line.**

9. **Fertiliser Plant.**

10. **Chemicals Fire and Explosion.**

11. **Workshop and Equipment.**

12. **Entrance and Yard Area.**

13. **Training / Inspections / Rules.**

14. **Contractors / Signs.**

15.

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Emergency Telephone Numbers:

Emergency:		999 or 112
Doctor:	Dr. James Hayes.	046 - 21369
Garda:	Navan.	046 - 21445
Hospital / Ambulance:	Navan.	046 - 21210
Fire Station:	Navan.	999 or 112
Family Phone Numbers:		
	House.	046 - 54149
	John. Mobile.	087 - 2621222
	Doreen. "	087 - 9232934
	Tony "	087 - 2204313
Electrician:	Dermot Carry.	046 - 53293
	Mobile	087 - 2501284
Roofing Contractor:	Joe Morgan.	046 - 41466
	Mobile	086 - 8958531
Fire Extinguishers:		
	North East fire prevention	01 - 8354638
	Johnny Bolger Mobile	086 - 2596561

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Summary and Report:

For the purposes of summarising this organisation, I feel it is only fair to distinguish between the Organic Gold (Marketing) ltd. bagging plant, and the new fertiliser plant.

Bagging Plant:

This plant was originally installed about 20 years ago. At a time when there was no effective health and safety legislation or controls. Now the time has come for this section of plant to be completely re-evaluated from a health and safety point of view.

The following points are presently being addressed as a matter of urgency.

1. Electrical installations and controls. The whole line is being rewired to present day recognised standards. A new control panel and fuse box is being created, to which all the machines will be attached. A number of emergency stop buttons are also being installed. It is expected that an E.S.B. 3 phase supply will shortly be available, after which the generator will be relegated to stand-by use only. This generator will then be housed in its own power house.
2. Packing machinery guarding. Many machines have had their machinery guards removed and never replaced. A list has been made of those guards that need to be replaced. This work is ongoing also. The bag press, elevator, and sealing elevator should all be completely protected by a wire mesh barrier. This should cover the length of the 3 machines on both sides, to a height of 5 ft. A platform, with a guard rail should be installed at the automatic bagger.
3. Forklift/Loading shovel/Tractor. All 3 machines need a major overhaul. Special attention should be paid to brakes, lights, reversing horns, cabs etc.
4. Training: No training has been provided to staff to date. A programme of training in forklift driving, manual handling, first aid, and fire extinguisher use has been organised for the coming weeks.

5. First Aid and Personal Protection Equipment(p.p.e): A list of the necessary p.p.e. has been identified and supplied. P.P.E. and first aid stations have been installed in the packing and fertiliser area.
6. Housekeeping: Housekeeping is poor. All spillages should be cleaned up as soon as possible. Packaging should be stored tidily in a separate area. Floors should be kept clean to prevent slips, trips and falls.
7. Staff Facilities: Presently there are no staff facilities. An office unit, which will include toilets and canteen facilities, is built.
8. Lighting: There is only one light in the main building at the moment. A list of internal and external lights has been drawn up and are being installed.

Fertiliser Plant:

This is a relatively new plant, so few modifications are necessary.

1. A new extraction unit and cyclone is on order and will be installed shortly.
2. Replace the 2 missing sheets from the sides of the building.
3. Provide a platform for the bagger operator.
4. Install a division between the fertiliser plant, and the bulk storage area. This will ensure that the dust generated by the fertiliser plant stays in the fertiliser plant.
5. Repair gap between top of ladder and the guard rail.

Introduction:

Safety Statement

To each Employee / Customer

This document sets out the safety policy of Organic Gold (Marketing Ltd.) and specifies the means provided to implement that policy.

Our objective is to provide a safe work environment for all our employees, customers and visitors.

It is important that all employees read this document carefully, and understand their key role, in maintaining a safe working environment.

All employees are encouraged to come forward with suggestions for improving their work place, and for improving this statement.

It is our intention to review this statement at regular intervals, or as procedures and practices change.

John Finnegan.

Director.

22/07/02

Introduction:

This Health and Safety Statement has been prepared at the request of,

Organic Gold (Marketing Ltd.)
Wilkinstown,
Navan,
Co.Meath.

The directors of the company are:

John Finnegan. Managing Director.
Doreen Finnegan.

The present full time staff is:

1. Mr. Tony Finnegan. Production Manager.
2. Martin Sheehy. General Operative.

The purpose of this Safety Statement shall be to ensure that:

1. All employees are aware of the commitment to employee Safety, Health and Welfare at Work.
2. To comply with the Safety Health and Welfare at Work Act 1989.

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Risk Assessment

Activity and Associated Hazard	Risk	Control Measures
--------------------------------	------	------------------

- Bagging Line (org. gold)
- Bagging Line (fertiliser)
- Tractors and Machinery
- Children and Safety
- Buildings and Working at Heights
- Health including Manual Handling
- Contractors and Visitors
- Workshop Tools etc
- Access and Transport
- Electricity
- Chemicals/Fire/Explosion
- Other Hazards
- Individual Responsibilities

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Activity and Associated Hazard	Risk	Control Measures
-----------------------------------	------	------------------

ACTIVITY and ASSOCIATED HAZARD:

A systematic audit of all aspects of the farm has been undertaken, and related hazards have been identified.

RISK ASSESSMENT:

Risk is assessed as follows:

High: Fatal or permanent disability.

Medium: Significant injury, which can be cured.

Low: Slight injury.

Control Measures

Both physical and organisational control measures have been recommended for each hazard.

Where practical, a time scale for implementation has been included.

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The Health and Safety Authority and Enforcement

The Authority.

The Authority's main functions under the 1989 Act are: to make adequate arrangements for the enforcement of all legislation on occupational safety, particularly through the inspectors; to keep existing legislation under review; to promote, encourage and foster the prevention of accidents and injury to health at work; to make arrangements for the provision of information and advice; and to issue licences for any activities which might be specified as requiring licensing.

Section 30 of the 1989 Act allows the Authority to issue Approved Codes of Practice (AcoPs).

Enforcement Power of Inspectors.

An Inspector of the Health and Safety Authority has the following extensive powers under the 1989 Act.

(a) Entry, Inspection and questioning

An inspector has the right to enter and inspect any place of work at any time and without notice, as well as the right to question any person there and to take any samples required for testing.

(b) Improve Direction

An inspector may issue an Improvement Direction in relation to activities, which the inspector considers may involve 'a risk to safety or health of persons'. The employer is required to respond to an Improvement Direction with an Improvement Plan and would also be required to specify a time within which the Improvement Plan would be implemented.

...../

(c) Improvement Notice

An inspector may issue an improvement Notice where the Inspector is of the opinion that an employer 'is contravening or has contravened any of the relevant statutory provisions', in other words any provisions of the 1989 Act or any Regulations. An Improvement Notice may include directions as to how the employer can comply with the relevant statutory duties by a specified date.

(d) Prohibition Notice

An inspector may issue a Prohibition Notice in relation to activities, which the inspector is of the opinion 'involve or...are likely to involve a risk of serious injury to persons at any place of work'. This might require an immediate stoppage of work.

In addition to these powers given to individual inspectors, the Authority itself may apply under section 39 of the 1989 Act to the High Court for a prohibition order in relation to certain activities. This can be obtained on an *ex parte* basis, that is, without notice to the employer concerned.

Prosecutions and Penalties

Where the 1989 Act or any Regulations impose a requirement on any person (whether a corporate body or an individual), failure to comply with that requirement leaves the person open to a possible prosecution by the Health and Safety Authority.

There are, on average, about 50 to 60 prosecutions per year initiated by the Authority. By contrast, about 2,000 Improvement Notices and Prohibition Notices are issued annually by the Authority and up to 10,000 workplace inspections are conducted each year.

Prior to April 2000, all prosecutions had been by way of summary trial in the District Court. Section 49 of the 1989 Act, as originally enacted, provided for a maximum fine of £1000 in the District Court. Section 41 of the Organisation of Working Time Act 1997 amended section 49 and increased the maximum penalty in the District Court to £1500 in respect of offences committed after the 1997 Act came into effect on 30th September 1997

It is also possible to bring a prosecution by way of an indictment but this would be reserved for extremely serious cases and would be heard by a judge and jury in the Circuit Criminal Court. Such prosecutions cannot be brought by the Authority; only Director of Public Prosecutions can give the necessary consent (just as the Gardai cannot bring a murder charge without the Director's consent). On indictment, there is no limit under the 1989 Act to the fine that can be imposed on conviction. The first prosecution under the 1989 Act on indictment was heard in the Circuit in April 2000, where a fine of £5000 was imposed by Judge Dunne in *The People(DPP) v Zoe Developments Ltd*. In 2001, in *The People (DPP) v Roseberry Construction Ltd and McIntyre*, fines totaling 316,000 euro were imposed. In Britain, under equivalent provisions in the Health and Safety at Work Act 1974, a record fine of £2.6 million was imposed on Balfour & Beatty plc in 1998 arising from the collapse of a tunnel at Heathrow Airport in 1994.

On indictment also, there is the additional power to impose a term of imprisonment of up to two years, but this can only happen in three cases;

1. failure to obey a Prohibition Notice issued by an inspector from the Health and Safety Authority.
2. unlawful disclosure of information obtained under the 1989 Act.
3. breaking the terms of a licence issued under the 1989 Act.

Prosecutions for work-related accidents where a fatality has occurred may, of course, give rise to consideration of a prosecution for manslaughter.

Accident Reporting and Investigation:

By law, all accidents resulting in death or serious injury should be reported to the Health and Safety Authority.

In the event of an **accident or dangerous occurrence**, an investigation should take place immediately.

A Form of Notice of Dangerous Occurrence and a Form of Notice of Accident are enclosed as part of this Safety Statement.

Instructions on how to complete each form are attached.

Completed forms should be sent to:

The Health and Safety Authority,
10 Hogan Place,
Dublin 2.

Tel: 01- 6147000

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APPROVED UNDER THE SAFETY, HEALTH AND WELFARE AT WORK (GENERAL APPLICATION) REGULATIONS, 1993

(Before completing this form, please see INSTRUCTIONS overleaf)

S.I. No. 44 of 1993

DETAILS OF INJURED PERSON

Name:	Date of birth:	Sex:	Is the injured person: <input type="checkbox"/> Employed Full Time <input type="checkbox"/> Employed Part Time <input type="checkbox"/> Self-employed <input type="checkbox"/> A Trainee <input type="checkbox"/> A Family Member <input type="checkbox"/> A Member of Public
Address:	Nationality:	Length of Service: Years Months	
	RSI Number:	Date of Accident:	
Occupation:	Time of starting work:	Normal time of finishing work:	

EMPLOYER/SELF-EMPLOYED INFORMATION

Name of business or company name:	Phone Number:(2) (+STD Code)		
Address of Head Office:(1)	Nature of Business:		
Address of establishment where injured person was based if different from (1) above: accident did not occur at the establishment address state where:	Approximate no. employed at establishment:	Approximate total no employed by business.	

TYPE OF WORK AND WORK ENVIRONMENT

What type of work was the injured person doing at the time of the accident? (e.g. Iron founding, harvesting, word-processing): _____

Where was the injured person at the time of the accident? (e.g. inside buildings, underground, field, public road, shop etc.) _____

CIRCUMSTANCES OF THE ACCIDENT (An "agent" may be another person, an animal, a substance, equipment or other item)

Briefly describe what the injured person was doing at the time of the accident identifying the agent involved: _____

Briefly describe the departure from normal, including the agent involved: _____

Briefly describe the action leading to the injury including the agent which actually caused the injury: _____

Character of the Injury

Indicate type of injury (tick one box only)		Indicate part of the body most seriously injured (tick one box only)	
<input type="checkbox"/> Bruising, contusion	<input type="checkbox"/> Suffocation, asphyxiation	<input type="checkbox"/> Head, except eyes	<input type="checkbox"/> Hip joint, thigh, knee cap
<input type="checkbox"/> Concussion	<input type="checkbox"/> Gassing	<input type="checkbox"/> Eyes	<input type="checkbox"/> Knee joint, lower leg, ankle area
<input type="checkbox"/> Internal injuries	<input type="checkbox"/> Drowning	<input type="checkbox"/> Neck	<input type="checkbox"/> Foot
<input type="checkbox"/> Open wound	<input type="checkbox"/> Poisoning	<input type="checkbox"/> Back, spine	<input type="checkbox"/> Toes, one or more
<input type="checkbox"/> Abrasion, graze	<input type="checkbox"/> Infection	<input type="checkbox"/> Chest	<input type="checkbox"/> Extensive parts of the body
<input type="checkbox"/> Amputation	<input type="checkbox"/> Burns, scalds, frostbite	<input type="checkbox"/> Abdomen	<input type="checkbox"/> Multiple injuries
<input type="checkbox"/> Open fracture (i.e. bone exposed)	<input type="checkbox"/> Effects of radiation	<input type="checkbox"/> Shoulder, upper arm, elbow	<input type="checkbox"/> Other
<input type="checkbox"/> Closed Fracture	<input type="checkbox"/> Electrical injury	<input type="checkbox"/> Lower arm, wrist	
<input type="checkbox"/> Dislocation	<input type="checkbox"/> Injury not ascertained	<input type="checkbox"/> Hand	
<input type="checkbox"/> Sprain, torn ligaments	<input type="checkbox"/> Other	<input type="checkbox"/> Fingers, one or more	

CONSEQUENCES OF THE ACCIDENT

Fatal <input type="checkbox"/>	Date of resumption of work if back	Year Month Day	Anticipated absence if not back	4-7 days <input type="checkbox"/>	8-14 days <input type="checkbox"/>	More than 14 days <input type="checkbox"/>
Non Fatal <input type="checkbox"/>						

DETAILS OF NOTIFIER

Notifier: Employer/Self Employed Person in control of workplace Person Providing Training Other Date: _____

Address and telephone number for acknowledgement/clarification if different from (1) & (2) above: _____

Signature: _____ Position: _____

EMPLOYER/SELF-EMPLOYED INFORMATION

Name of business or company name:	Phone No: (+ STD Code)	
Address of Head Office:	Date of Incident:	
Address of establishment where incident took place if different from above:	Approximate no. employed at establishment	Approximate total no. employed by business:

TYPE OF WORK BEING UNDERTAKEN AND LOCATION OF DANGEROUS OCCURRENCE

What activity was being undertaken at the time of the incident (e.g. construction, road transport, chemical processing)

Where did the incident take place (e.g. inside buildings, underground, field, public road, shop etc.)

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CIRCUMSTANCES OF THE INCIDENT

Description and cause:

DETAILS OF NOTIFIER

Notifier: <input type="checkbox"/> Employer/Self Employed <input type="checkbox"/> Person in control of workplace <input type="checkbox"/> Person Providing Training <input type="checkbox"/> Other	Date:
Address and telephone number for acknowledgement/clarification if different from above:	Signature: Position:

Return to Health & Safety Authority, 10 Hogan Place, Dublin 2.

Form No IR3

INQUIRIES CONCERNING THIS FORM CAN BE MADE TO THE HEALTH AND SAFETY AUTHORITY (TEL (01) 6147000) FROM WHICH DETAILED GUIDELINES ARE AVAILABLE

E-MAIL: web_info@hsa.ie

NOTE: THESE FORMS CAN BE PHOTOCOPIED

Where a dangerous occurrence of the kind named below, which is not reportable by reason of death or injury, occurs an employer/self-employed person must, as soon as practicable, send a written report in the form overleaf to the Health and Safety Authority.

1. The collapse, overturning, or failure of any load-bearing part of:
 - (a) any lift, hoist, crane, derrick or mobile powered access platform;
 - (b) any excavator; or
 - (c) any pile-driving frame or rig having an overall height, when operating, of more than seven metres.
2. The explosion, collapse or bursting of any closed vessel, including a boiler or boiler tube, in which the internal pressure was above or below atmospheric pressure.
3. Electrical short circuit or overload attended by fire or explosion which results in the stoppage of the plant involved for more than 24 hours.
4. An explosion or fire occurring in any plant or place which resulted in the stoppage of that plant or suspension of normal work in that place for more than 24 hours where such explosion or fire was due to the ignition of process materials, their by-products (including waste) or finished products.
5. The sudden uncontrolled release of one tonne or more of highly flammable liquid, liquified flammable gas, flammable gas or flammable liquid above its boiling point from any system, plant or pipe-line.
6. The collapse or partial collapse of any scaffold more than five metres high which results in a substantial part of the scaffold falling or overturning, including, where the scaffold is slung or suspended, a collapse or part collapse of the suspension arrangements (including an outrigger) which causes a working platform or cradle to fall more than five metres.
7. Any unintended collapse or partial collapse of:
 - (a) any building or structure under construction, reconstruction, alteration or demolition or of any false-work involving a fall of more than five tonnes of material; or
 - (b) any floor or wall of any building being used as a place of work, not being a building under construction, reconstruction, alteration or demolition.
8. The uncontrolled or accidental release or the escape of any substance or pathogen from any apparatus, equipment, pipework, pipe-line, process plant, storage vessel, tank, in-works conveyance tanker, land-fill site, or exploratory land-drilling site which, having regard to the nature of the substance or pathogen and the extent and location of the release or escape, might have been liable to cause serious injury to any person.
9. Any unintentional ignition or explosion of explosives.
10. The failure of any container or of any load-bearing part thereof while it is being raised, lowered or suspended.
11. Either of the following incidents in relation to a pipe-line:
 - (a) the bursting, explosion or collapse of a pipe-line or any part thereof;
 - (b) the unintentional ignition of anything in a pipe-line, or of anything which immediately before it was ignited was in a pipeline.
12. (1) Any incident in which a container, tank, tank vehicle, tank semi-trailer, tank trailer or tank-container being used for conveying a dangerous substance by road:
 - (i) overturns; or
 - (ii) suffers damage to the package or tank in which the dangerous substance is being conveyed.
- (2) Any incident involving a vehicle carrying a dangerous substance by road, where there is:
 - (a) an uncontrolled release or escape from any package or container of the dangerous substance or dangerous preparation being conveyed; or
 - (b) a fire which involves the dangerous substance or dangerous preparation being conveyed.
13. Any incident where breathing apparatus while being used to enable the wearer to breathe independently of the surrounding environment malfunctions in such a way as to be likely either to deprive the wearer of oxygen or, in the case of use in a contaminated atmosphere, to expose the wearer to the contaminant to the extent in either case of posing a danger to his health, but excluding such apparatus while it is being used in a mine or is being maintained or tested.
14. Any incident in which plant or equipment either comes into contact with an overhead electric line in which the voltage exceeds 200 volts, or causes an electrical discharge from such electric line by coming into close proximity to it unless in either case the incident was intentional.
15. Any accidental collision between a locomotive or a train and any other vehicle at a factory or at dock premises.
16. The bursting of a revolving vessel, wheel, grindstone, or grinding wheel moved by mechanical power.

INQUIRIES CONCERNING THIS FORM CAN BE MADE TO THE HEALTH AND SAFETY AUTHORITY (TEL: 01, 6620400) FROM WHICH DETAILED GUIDELINES ARE AVAILABLE.

Buildings:

Activity and Associated Hazard	Risk	Control Measures
<p><u>Packing Shed. (ORG.GOLD)</u></p> <p>This area is devoted to packing organic gold in 10, 40 and 70 lt. bags. The building is attached to the material storage and mixing shed.</p>	<p><u>High Risk:</u></p> <p>While the actual building is structurally sound, there are a number of roof leaks throughout this store. There is a high risk of. Short on electrical equipment, possibly causing electrocution. There is also a high risk of injury from slips and falls on the wet floor.</p>	<p>Roofer Joe Morgan, to be contacted to carry out necessary repairs. 08/07/02 Mobile no: 086-8958531</p>
<p><u>Raw Material Store: and Fertiliser Store:</u></p> <p>All basically the same building, with concrete dividers in the middle. The three doors on the whole shed are solid and secure.</p>	<p><u>LOW RISK:</u></p> <p>Structurally sound with no visible leaks. 2 side panels missing between hopper and mixer, and at the very far corner of the shed.</p>	<p>Both easily replaced by Joe Morgan.</p>
<p><u>Left storage Shed:</u></p> <p>Used for storing raw materials. V.Good condition, sound and secure. Diesel tank stored here.</p>	<p><u>Low Risk:</u></p> <p>This building itself poses no risk. Low risk of fire.</p>	<p>Continue to maintain the building in its present state. Install fire Extinguisher inside door. "Bund" diesel tank.</p>

Working at Heights:

Personnel Cage:

A personnel cage should be available, to carry out work safely at heights. The cage itself should be secure, and working harness should be available.

The cage should be used only with the teleporter, and should be properly secured to it.

Mobile Ladder:

A mobile ladder is to be purchased, which will be used in three different areas.

1. In the left storage shed, to provide access to the person feeding the bulk bag "loops" on to the forklift.
2. To provide access to the racking in the packing shed, where the plastic bags are stored.
3. To provide access to the discharge unit of the product mixer, when repairs are to be carried out.

Ladder Check List:

Y/N

Is the ladder in good condition? -----

Is the ladder the best method of doing the job? -----

Can the ladder be placed to avoid over reach? -----

Can the ladder be secured at the top and bottom? -----

Is the supporting surface firm and level? -----

Electricity:

Activity and Associated Hazard	Risk	Control Measures
<p><u>Generator:</u></p> <p>Presently the premises uses power from a diesel generator.</p> <p>However, three phase E.S.B. power will shortly be connected.</p> <p>At that stage, the generator will only be used for back up power.</p>	<p><u>High Risk:</u></p> <p>The generator itself is very poorly guarded. There is access to all sides of the machine.</p> <p>There is a great risk of somebody being electrocuted.</p>	<p>This machine should not be used until it is properly secure. I.e. In its own powerhouse, under lock and key.</p>
<p><u>Bagging Plant:</u></p> <p>The electrical wiring and fittings, On the whole bagging plant needs to be replaced as soon as possible.</p>	<p><u>High Risk:</u></p> <p>There is a high risk of electrocution because of the state of this wiring system.</p> <p>Loose wires. Loose switches. No integrated controls. No integrated emergency stop buttons.</p>	<p>Michael Clarke meeting with Dermot Carry 10/07/02 to discuss a programme of rewiring, and the installation of a new control panel.</p> <p>Tel: 087 - 2501284.</p> <p>Work to start as soon as possible.</p>
<p><u>Fertiliser Plant:</u></p> <p>New plant, new electronic installation.</p>	<p><u>LOW RISK:</u></p> <p>Plant operates at different levels. Emergency stop buttons at all levels.</p>	<p>Maintain electrical installation in its present condition.</p>

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 Wilkinstown,
 Navan,
 Co. Meath.

M. & A. Clarke
 Farm Health and
 Safety Solutions

Tel: (046) 54606
 Mobile: (087) 7958111

Machinery:

Activity and Associated Hazard	Risk	Control Measures
<p><u>Hyster 4 tonne Forklift:</u></p> <p>No engineering report available. Reversing horn not in place. Starter wires exposed. Mast and hydraulics o.k. Brakes o.k.</p>	<p><u>High Risk:</u></p> <p>High risk of injury due to collision.. with people or other machines. Proper cab, with doors / windows not attached. Danger of dust inhalation.</p>	<p>Install reversing horn. Replace guard on electric panel Have engineers report carried out.</p>
<p><u>Clarke Michigan 35B:</u></p> <p>Loading shovel, for loading lorries and the 2 feed hoppers. Brakes not working.</p>	<p><u>High Risk:</u></p> <p>Serious danger of collision due to faulty brakes. Doors missing.</p>	<p>This machine should not be used until the brakes are repaired. Replace doors. Install reversing horn. Have engineers report carried out.</p>
<p><u>Mixer Wagon:</u></p> <p>Used for mixing bulk product. P.T.O. and p.t.o. guard in place Drawbar stand missing. Product discharged out the back.</p>	<p><u>Low risk:</u></p> <p>Danger of drawbar sliding of support. Danger of dust inhalation from back of machine.</p>	<p>Replace drawbar stand. Ensure people are clear when product is being discharged.</p>
<p><u>John Deere 2130:</u></p> <p>Used for mixing compost. Lights not working. Back of cab open. one door missing.</p>	<p><u>Low Risk:</u></p> <p>Danger of trying to operate controls from back of tractor. Danger of entanglement in p.t.o. or slipping of drawbar.</p>	<p>Seal off back of tractor. Replace door.</p>

Organic Gold Packing Line.

Activity and Associated Hazard	Risk	Control Measures
<p><u>Hopper:</u></p> <p>Feeding product into bagging line. Many missing guards.</p>	<p><u>High Risk:</u></p> <p>Danger of entanglement in drive chain. Part of cover missing. Top inspection cover missing. Easy access to conveyor rollers At bottom.</p>	<p>Guard to be repaired.</p> <p>Inspection cover to be replaced. Mesh to be placed in front of conveyor rollers.</p>
<p><u>Conveyor:</u></p> <p>Elevating product to bagging machine. Variable speed motor switch on top of machine. Ladder has to be climbed to adjust the speed.</p>	<p><u>High risk:</u></p> <p>The use of ladders should be eliminated where possible. This ladder is not secure, and there is a danger of falling or being caught in the machine. The side of the belt is frayed and loose. Could get caught in rollers, and could prove difficult to disentangle.</p>	<p>In order to eliminate the need to climb a ladder, The variable speed motor should be changed, so as to allow the switch be placed in front of the operator at ground level. The conveyor belt should be repaired before further use.</p>
<p><u>Walthambury Bagger:</u></p> <p>Product is fed into this machine from the conveyor, to be bagged in 10, 40 and 70 litre bags. It requires attachment to a compressor to operate the opening and closing mechanisms on the machine. This mechanism is controlled by a foot pedal beside the operator.</p>	<p><u>High Risk:</u></p> <p>Only trained operators should be allowed operate this machine. Risk of getting fingers caught in the bag holding mechanism, particularly if there is a problem with the foot operated mechanism. There is also a risk of eye damage if compressed air pipes are damaged while being repaired.</p>	<p>This is one of the 2 areas on the bagging line which must be operated manually. Firstly, all spillages in this area should be cleaned up immediately, so as not to impede the function of the foot operated mechanism. The front panel should also be replaced, to guard the compressed air pipes. There is an emergency stop button attached.</p>

Organic Gold Packing Line.

Activity and Associated Hazard	Risk	Control Measures
<p><u>Saxone Heat Sealer:</u></p> <p>Hermetically heat seals all bags. Heat level is adjustable depending on requirements.</p> <p>Bags must be fed through the machine manually.</p>	<p><u>Medium Risk:</u></p> <p>The cover of the machine can be easily lifted, allowing access to the heater element and the internal electronics. Possibility of burns and electrocution.</p> <p>If bag is wrongly fed to machine, there is a possible danger of fingers getting caught.</p>	<p>Cover should be securely closed at all times.</p> <p>Only trained people should be allowed use this machine. As with all machines, it should be disconnected from the mains before carrying out any repair.</p>
<p><u>Sealer Bag Conveyor:</u></p> <p>Old machine. Height adjustable for different size bags, by means of a manual jack.</p>	<p><u>High Risk:</u></p> <p>Danger of falling in over the machine, and possibly getting entangled.</p>	
<p><u>Conveyor to bag press:</u></p> <p>Conveyor belt damaged. No Guard on pulley. Starter switch not properly attached to machine.</p>	<p><u>High Risk:</u></p> <p>High risk of injury, due to entanglement in either the conveyor belt itself, or the unguarded drive belt. Danger of electrocution from loose wires or from the loose starter switch.</p>	<p>Replace or repair the conveyor belt. Replace the drive belt guard. Secure the starter box and replace electric cable.</p>
<p><u>Bag Press:</u></p> <p>Working parts at the back of machine exposed.</p>	<p><u>High Risk:</u></p> <p>Danger of entanglement in drive chain and belt. Top part of bag press exposed.</p>	<p>Replace cover at back of machine.</p>

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Navan.
Co. Meath.

M. & A. Clarke
Farm Health and
Safety Solutions

Tel: (046) 54606
Mobile: (087) 7958111

Organic Gold Packing Line.

Activity and Associated Hazard	Risk	Control Measures
<p><u>Turntable Pallet Wrapper:</u></p> <p>Bags built on pallet manually. Hood attached, and product is then shrink wrapped.</p> <p><u>Compressor:</u></p> <p>Provides air for bagging unit.</p>	<p><u>High Risk:</u></p> <p>Risk of back injury due to incorrect manual handling procedures.</p> <p><u>Low risk:</u></p> <p>Machine itself is well guarded. Should be moved to a secure location. Danger of trips and falls in this congested area.</p>	<p>All palletising staff to be fully trained in correct manual handling techniques.</p> <p>Move machine to its own secure unit.</p>

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BAGS

Should be lifted

Using proper

MANUAL

HANDLING

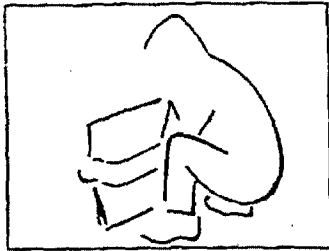
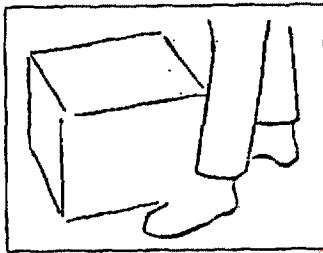
TECHNIQUES

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Manual Handling Procedure:

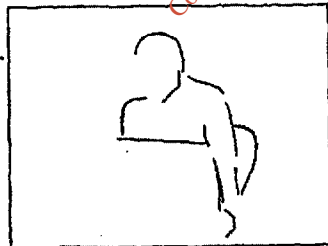
Six steps to safe lifting.

1. Keep feet parted -
one alongside,
one behind the object.

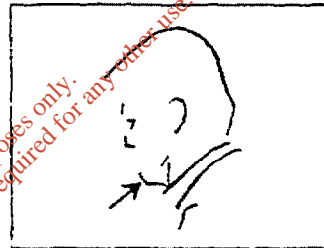
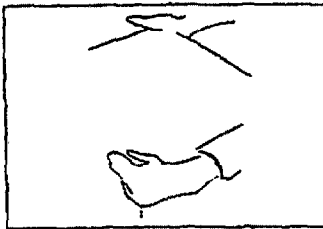


3. Tuck your chin in.

2. Keep back straight,
nearly vertical.

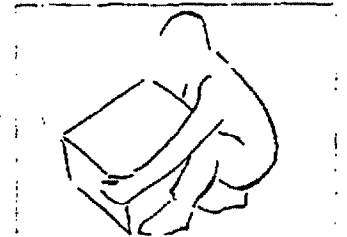


4. Grip the object with the
whole hand.



5. Tuck elbows and arms in.

6. Keep body weight
directly over feet.



Fertiliser plant:

Activity and Associated Hazard	Risk	Control Measures
<p><u>Hopper and Elevator:</u></p> <p>For feeding product into mixer truck. Wall panel missing above elevator.</p>	<p><u>High Risk:</u></p> <p>Machinery in good condition.</p> <p>Danger of fall or cuts while intruder trying to enter through Missing panel.</p>	<p>Replace panel as soon as possible.</p>
<p><u>Mixer Truck:</u></p> <p>Old cement mixer. Not Ideal but nonetheless safe.</p> <p>Ladder in use to reach top of machine.</p>	<p><u>Low Risk:</u></p> <p>As long as the machine is kept locked.</p> <p>High risk of falls from unsecured ladder.</p>	<p>Ladder is to be replaced by new mobile platform ladder. To be used if repairs are necessary.</p>
<p><u>Fertiliser Plant:</u></p> <p>Material fed in at the top. Different grades extracted on the way down to bagger.</p>	<p><u>Medium Risk:</u></p> <p>Equipment well guarded. Emergency stop button at all levels. Slight gap between top of ladder and hand rail.</p>	<p>Repair gap at top of ladder.</p>
<p><u>Bagger Attachment and rollers.</u></p> <p>Product filled into 500 kg. bags. Bags have to be attached to holding bars by the operator. This requires reaching across and probably standing in on the rollers.</p>	<p>Danger of injury due to entanglement in rollers.</p> <p>Danger of falling in on rollers.</p>	<p>Extend standing platform above rollers and in about 1 foot. This will give the operator stability, and will protect against possible entanglement in rollers.</p> <p>Erect personnel barriers on both sides of roller attachment.</p>

Fertiliser Plant:

Activity and Associated Hazard	Risk	Control Measures
<p><u>Power House:</u></p> <p>This power house contains electrical units for the 3 phase power.</p> <p><u>No access from fertiliser bagging shed to mixing plant.</u></p>	<p><u>High Risk:</u></p> <p>Danger of people being electrocuted because of unrestricted access. No door.</p> <p>Access should be available in an emergency.</p>	<p><u>Control:</u></p> <p>Put up door immediately, and keep locked at all times.</p> <p>Select correct location behind the bagger. Make access, erect door, which is to be used in emergencies only.</p>

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Chemicals / Fire / Explosion:

Activity and Associated Hazard	Risk	Control Measures
<p><u>Organic Gold, bulk store and bagging plant:</u></p> <p>At present there is a danger of fire caused by poor electrical fittings.</p>	<p><u>HIGH RISK:</u></p> <p>Danger of serious burns as a result of fire.</p>	<p>Wiring to be replaced. Appropriate fire extinguishers in place. Training in the use of fire extinguishers to be arranged by Michael Clarke. N.East fire prevention. J.Bolger. Tel: 01-8354638. 086-2596561 Cost approx. € 35.00 per head.</p>
<p><u>Fertiliser Plant:</u></p> <p>This plant involves the blending, mixing and bagging of a number of dry dusty materials.</p>	<p><u>High Risk:</u></p> <p>Serious risk of dust explosion.</p>	<p>Install a dust extraction system. New system on order. Close off the fertiliser area from the organic gold plant.</p> <p>Emergency Tel: Numbers posted on notice board.</p>

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FIRE DRILL

In the event of fire the following procedures will apply.

1. The fire alarm will be sounded.
2. All employees should exit the building in a calm and orderly manner.
3. **Employees should assemble at.**
- ASSEMBLY POINT A or B.
4. All employees should be accounted for.
5. Call the fire brigade.
6. **Never re enter a burning building.**

WORKSHOP AND EQUIPMENT:

Activity and Associated Hazard	Risk	Control Measures
<p><u>Workshop:</u></p> <p>Presently the workshop is inside the door of the packing shed. It consists of a workbench, some storage space, and the following list of hand tools.</p> <ul style="list-style-type: none">- Angle grinder.- Welder.- Drill- Lead lamp.- Jump leads.- Lights.-	<p><u>High Risk Area:</u></p> <p>With the exception of the welder, which has a poor electric lead, all other equipment is in good order. However there is a serious risk of eye damage due to the lack of any p.p.e.</p> <p><i>For inspection purposes only. Consent of copyright owner required for any other use.</i></p>	<p>Replace the lead to the welder. Provide proper p.p.e. and make sure it is worn.</p> <p>It is also unsuitable to have the workshop in the same area as the packing shed. It should be housed in its own individual shed.</p>

Entrance and Yard Area:

The Entrance leads out on to a very busy road.
Presently, there is very poor visibility to the left and right of the entrance.

High Risk:

There is a high risk of collision between vehicles, because of this poor visibility.

Control Measures:

- Have the verge on both sides of the entrance cut down immediately.
- Spray this area with total weed killer, regularly throughout the year.

General:

The area on both sides of the laneway should be trimmed, if only to improve the appearance of the entrance.

There are a number of pot holes in the lane, that could also be filled in.

The yard area is generally, clean and solid.

A designated car park, with "parking" signs is to be created outside the office.

There is ample room for trucks and machinery at both sides of the building.

Outside Lighting:

Presently, there is no outside lighting in any of the yard areas.

Outside lights are to be installed at the 4 corners of the building, in order to increase safety during the winter months.

Diesel Tanks:

There are 2 diesel tanks in different sheds on the premises, at present.

For security reasons, they can continue to be stored inside.

However, both must be "bunded" immediately.

The one in the storage shed should be marked "fertiliser plant" and the one in the Organic Gild shed should be marked "organic gold"

Office:

The structure of the office is in place.

When completed it will have toilet and canteen facilities.

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Training:

Firstly, Tony Finnegan has been appointed Safety Officer for Organic Gold (Marketing) Ltd.

Following discussions with Tony, the following training needs have been identified for staff. Where possible, training dates are included.

Forklift Training:

Tony Finnegan and John Sheehan will attend a FAS approved forklift certificate training course.

Date: Saturday July 27 th.

Manual Handling:

John and Tony Finnegan, together with John Sheehan will attend a manual handling training course to be given by Josephine Connolly. (Certificate Standard)

Date: Wednesday August 1st.

Fire Extinguisher Training:

All staff is to be trained in the correct use of fire extinguishers. This will be carried out by North East Fire prevention (John Bolger) to certificate standard.

Date: Wednesday July 24 th.

First Aid:

Tony Finnegan, Safety Officer, will attend a 2 day training course.

Date: Mid August.

Inspections:

Inspections should be carried out on a weekly basis. All problems should be noted, the person responsible should be informed and corrective action should be taken immediately.

Meetings:

It is recommended that **formal** meetings should take place each month. All staff should attend. Inspections, accidents, near misses non compliances, maintenance requirements should be discussed. Actions should be agreed, and a time scale for completion should be set.

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ORGANIC GOLD MARKETING LTD.

GENERAL SAFETY RULES.

1. Work area must be clean at all times.
2. Wear **Safety Boots** and proper **P.P.E.**
3. Follow correct **Manual Handling Techniques**
4. Obey **Safety Signs.**
5. **Staff Only** in production areas.
6. **No Smoking** on premises.
7. Ensure all **Guards** in Place.
8. **No Passengers** of forklift trucks.
9. **Ladders to be secured top and bottom** before use.
10. Report all **accidents / near misses** to safety officer.
11. Treat **electricity** with respect. It can kill.
12. Never **Run ; or Jump** from machines or heights.
13. Check **hand tools** before use.

Tony Finnegan.

Safety Officer.

07/07/02

CONTRACTORS:

1. All contractors and sub-contractors shall have adequate employers and public liability insurance.
2. They should also have an up to date safety statement.
3. Contractors and sub-contractors should work in a safe manner at all times and shall comply with relevant codes of practice.
4. If at all possible, their work site should be segregated.
5. They should supply all their own tools, equipment and protective clothing.

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Signs:

The following signs are required.

1. "Occupiers Liability" at entrance to site.
2. Assembly point "A" left timber fence, opposite office.
3. "Parking" signs on gable outside office.
4. "Fork lift operating" above water tank.
5. "Strictly Staff Only" at 3 entrances to main shed and at entrance to left hand store.
6. " Do not smoke, light matches or lighters in these premises this may cause a dust explosion"
7. "Safety Rules" on notice board in packing shed.
8. " Personal Protection Equipment" outside both first aid cabinets.
9. Assembly point "B" opposite entrance to fertiliser store.

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TECHNIQUES

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Advanced National Training Services

Certificate of Occupational First Aid Training

This is to certify that

Tony Finegan

*Has successfully completed and passed the
Occupational First Aid Course in accordance
with the Safety, Health and Welfare at Work
Act 1989.*

Certificate Number: 51

Instructor: *JM Lavers* No. *277E* Date *4/12/02*

Examiner: *Damian Hart* No. *257E* Date *4/12/02*

Date of expiry of certificate: 4th December 2005



FETAC

Further Education and
Training Awards Council
Comhairle na nDamhachtam
Breisdeachais agus Oilina

Certificate in
Fork Lift Truck Driving (FÁS)

is awarded to

Tony Finegan

who achieved the following standard

Fork Lift Truck Driving

Credit

23/08/2002

5394806R

079061

Joseph O'Connor
Chair, FETAC

Stam Uile Hough

Chief Executive, FETAC



FETAC
Further Education and
Training Awards Council
Comhairle na nDaibhachtam
Breisordachais agus Oidhuna

Certificate in
Fork Lift Truck Driving (FÁS)

is awarded to

Martin Sheehy

who achieved the following standard

Fork Lift Truck Driving

Credit

23/08/2002

7213116R

079061

Seán O'Connor
Chair, FETAC

Starr Ullrich
Chief Executive, FETAC

This is to certify that

Tony Finnegan

has completed training in

Manual Handling & Lifting

on

8th August 2002

J. Connolly

Manual Handling Instructor

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MASTER
FIRE SERVICES
Monasterboice, Drogheda, Co. Louth



Master Fire Services Ltd.,
Monasterboice,
Drogheda, Co. Louth.
Tel: 041 980 0792
Fax: 041 983 1950
Email: masterfire@eircom.net



Member Of The Fire Industry Association Of Ireland

CERTIFICATE

This is to certify that the fire extinguishers at:

Organic Gold,

Wilkinstown,

Navan,

Co. Meath.

Have been inspected and comply with
the requirements of Irish Standard 291 : 1986
& European Standard EN3

Date of Inspection: April 2002

Company Representative: Richard White

The following extinguishers are not covered by this certificate (including any that bear the company service record label duly maintained)

Signed: (for and on behalf of Master Fire Services Ltd.)

L. MURPHY



WASTE Application Form

SECTION K REMEDIATION, DECOMMISSIONING, RESTORATION AND AFTERCARE

Describe the existing or proposed measures to minimise the impact on the environment after the activity or part of the activity ceases operation, including provision for post-closure care of any potentially polluting residuals.

For Landfill Applications, capping proposals are required, and reference should be made to the *Landfill Manual on 'Restoration and Aftercare'* published by the Agency, when completing this section.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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Attachment K

Decommissioning

Waste recovery activities will continue to be required to meet our national recycling and recovery targets in the foreseeable future, and as such there is no time limit for closure of the facility at present.

With composting, a phased or orderly closure is preferable to enable the waste accepted to be treated fully before leaving the site. In the unlikely event of unexpected closure, all waste material will be moved off-site to an appropriate authorised facility, and all compost product will be moved to authorised end markets. Any remaining raw materials would be returned to suppliers.

Upon closure, the facility (including waste reception building) could easily be converted into agricultural farmyard use in keeping with the land use of the area. In this case, a significant amount of machinery from the facility could also be reused. The in-vessel composting units could be disassembled and either sent to another composting site or the constituent parts recycled or disposed of as required.

After Care Management

All emissions will continue to be monitored after decommissioning until such a time that Organic Gold Compost and the agency are content that the facility has been fully decommissioned and there is no potential for the release of further emissions into the environment. Since no emissions to surface water and groundwater are proposed, and no waste would remain on site, then the aftercare requirements would be minimal once the Agency is satisfied with decommissioning completion.

SECTION L STATUTORY REQUIREMENTS

L. 1 Section 40(4) WMA

Indicate how all the requirements of Section 40(4)[(a) to (i)] of the Waste Management Acts 1996 to 2003 will be met.

Applicants should also describe how the proposed facility will comply with the requirements of BAT. In particular reference should be made to the considerations referred to in Annex IV of Council Directive 96/61/EC concerning integrated pollution prevention and control.

Attachment L.1 should contain the documentation requested above, along any relevant additional information.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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Attachment L.1

(a) Compliance with Statutory Requirements as set out in Section 40(4) of the WM Act 1996-2003 in the case of OGF

Article 40(4):	Where Addressed:
(a) Emissions shall not contravene standards or emission limit values	The EIS accompanying this Waste Licence Application has discussed all environmental emissions and confirmed that no Statutory Limits will be breached.
(b) Activity will not cause environmental pollution (bb) landfill – is not relevant	The EIS accompanying this Waste Licence Application has discussed all environmental emissions to air, water and ground and set out the requirements to be taken to ensure environmental pollution will not be caused, and specified where necessary the monitoring requirements.
(c) Application of Best Available Technology	Refer to table below in relation to Directive 96/61/EC
(cc) Compliance with Waste Management Plan	This has been demonstrated in Section 2.4 and 2.5 of Volume 1 of the EIS
(d) Fit and Proper Person	This has been demonstrated in Section L.2 of this application
(e) Compliance with Section 53	This has been demonstrated in Section L.2 of this application
(f) Efficient use of energy	In comparison with other in-vessel composting techniques, the proposed system has a relatively low energy input and by virtue of its modular design it is not demanding on construction raw materials. Use of water resources in the composting operation is minimal since rainwater/ leachate is collected and recycled.
(g) Noise emissions	Noise emissions have been examined in Volume 1 Section 11, which confirms no limits are expected to be breached.
(h) Accident Prevention	Measures to prevent and respond to accidents/emergencies are included in Section J of this Application
(i) Orderly closure and decommissioning	Measures to ensure the facility is closed and decommissioned in a safe manner have been outlined in Section K of this Application

(b) Compliance with reference to Annexe IV of Directive 96/61/EC - BAT Application in the case of OGF

Use of low waste technology	The composting system proposed requires minimal input of materials and in fact the majority of raw material inputs to the process are incorporated into the final compost or fertiliser produced at the plant.
Use of less hazardous substances	As demonstrated by the MSDS supplied, there are no hazardous substances consumed in the main processes on site.
Furthering of recovery and recycling of substances	As remarked above, virtually no waste is produced by the composting process. The facility itself will enable recovery and recycling of by-products from other facilities.
Comparable Process and methods	The OGF will be comparable in terms of efficiency and environmental performance compared with other alternative biological treatment systems. It represents an effective and flexible in-vessel composting system. The other main alternative approach would be to employ an anaerobic digestion facility, but the required scale, cost and complexity of this system is not a feasible alternative for this location or this company.
Technological advances and know-how	The proposed in-vessel system represents the fruits of R&D and demonstration work in the UK and has lead to the development of successful operation models for the equipment, therefore it represents a 'leading edge' solution.
Nature, effects and volume of emissions	The expanded site activities are being planned with an improvement in emission control and management at the waste reception and treatment stages
Commissioning dates for new or existing proposals AND Length of time needed.	The system proposed and improvements to management and operation can be put in place quickly and in accordance with a structured 'Conditioning Plan'.
Consumption of raw materials and energy efficiency	In comparison with other in-vessel composting techniques, the proposed system has a relatively low energy input and by virtue of its modular design it is not demanding on construction raw materials. Use of water resources in the composting operation is minimal since rainwater/ leachate is collected and recycled.
Preventing and reducing emissions and their risks	Emission control will be greatly improved by virtue of proposed use of an enclosed waste reception building and an active –in-vessel composting stage to maximise control on operations.
Need to prevent accidents	The proposed facility improvements are relatively simple in terms of construction and operation.

L.2 Fit and Proper Person

The WMA in Section 40(4)(d) specifies that the Agency shall not grant a licence unless it is satisfied that the applicant (if the applicant is not a local authority) is a fit and proper person. Section 40(7) of the WMA specifies the information required to enable a determination to be made by the Agency.

- Indicate whether the applicant or other relevant person has been convicted under the Waste Management Acts 1996 to 2003, the EPA Act 1992 and 2003, the Local Government (Water Pollution) Acts 1977 and 1990 or the Air Pollution Act 1987.
- Provide details of the applicant's technical knowledge and/or qualifications, along with that of other relevant employees (Link to Section C.1 of the application).
- Provide information to show that the person is likely to be in a position to meet any financial commitments or liabilities that may have been or will be entered into or incurred in carrying on the activity to which the application relates or in consequence of ceasing to carry out that activity (Link to Section K of the application).

Supporting information should be included as **Attachment L 2** with reference to where the information can be found in the application.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
----------------------------	--	------------------------------------	--

Attachment L 2

- Neither Organic Gold or any of its Directors have ever been Convicted of offences under the Waste Management Acts 1996 to 2003, the EPA Act 1992 and 2003, the Local Government (Water Pollution) Acts 1977 and 1990 and the Air Pollution Act 1987.
- Refer to Section C1 and Attachment C1 for information on the applicant's technical knowledge and/or qualifications.
- Refer to Attachment L2 overleaf with a Copy of a letter from the applicant's bank stating that they are in good financial standing.



Business Banking
Clonard House, Market Square
Navan, Co. Meath
www.bankofireland.ie

Our ref: PMCD/BB

4th August, 2004.

TO WHOM IT MAY CONCERN

RE: Organic Gold Marketing Limited

I confirm the above have been customers of Bank of Ireland for the past 4 years.

It is a properly constituted company who have conducted all financial affairs in a satisfactory manner with Bank of Ireland.

Yours faithfully,

Patricia Mc Donnell
Business Manager

(046-9073105)

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Legal information

Bank of Ireland - incorporated in Ireland with limited liability.
A tied agent of New Ireland Assurance Company plc, trading
as Bank of Ireland Life. Bank of Ireland is regulated by the
Irish Financial Services Regulatory Authority.

Registered information

Registered No. C-1.
Head Office, Lower Baggot Street,
Dublin 2, Ireland.

A member of **Bank of Ireland Group**



SECTION M DECLARATION

Declaration

I hereby make application for a licence / revised licence, pursuant to the provisions of the Waste Management Acts 1996 to 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.

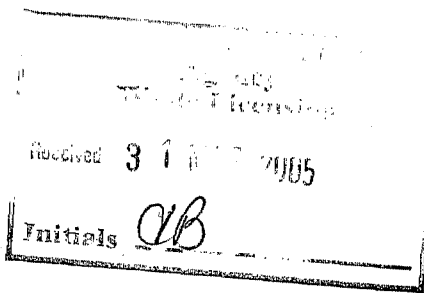
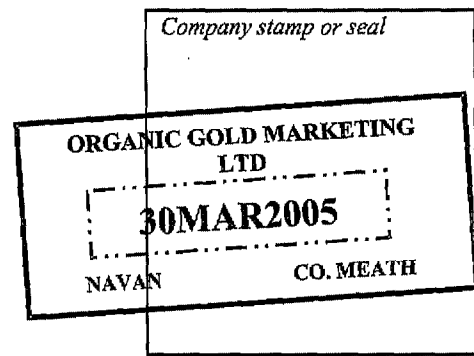
Signed by: John Finegan
(on behalf of the organisation)

Date: 30-3-05

Print signature name: JOHN FINEGAN

Position in organisation: MANAGING DIRECTOR

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Received 31 March 2005
 Initials MB

DOCUMENT CONTROL SHEET

Client	Organic Gold					
Project Title	Organic Gold Compost Facility					
Document Title	Environmental Impact Statement - Public Consultation Report					
Document No.	MDE0202Rp003Rev01					
This Document Comprises	DCS	TOC	Text	List of Tables	List of Figures	No. of Appendices
	1	0	3	0	0	2

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Rev.	Status	Author(s)	Reviewed By	Approved By	Office of Origin	Issue Date
F01	Final	Lorraine Herity	Conall Boland	Larry O'Toole	Carnegie	24/02/04

1.0 INTRODUCTION

This report summarises the Public Consultation exercise carried out to date in relation to an EIS prepared by RPS-MCOS on behalf of Organic Gold (Marketing) Ltd. of Wilkinstown, Navan, Co. Meath. The EIS was submitted to Meath County Council on the 14th of January 2005 as part of a planning application. In the EIS there was some information provided on the first part of consultation carried out in the village of Wilkinstown which is briefly described below. However the main emphasis of this report is to describe the second part of the consultation where residents were invited to an information day and site visit on the 11th of February 2005 shortly after the EIS had previously been submitted.

From the outset, public consultation was considered an important part of the EIS, as it was known that there were a number of complaints made by residents of Wilkinstown to the Planning and Environment Section of Meath County Council. The issues raised by complainants were examined and following on from this, a programme of public consultation was devised by Organic Gold along with RPS-MCOS.

1.1 SUMMARY OF PREVIOUS PUBLIC CONSULTATION ACTIVITIES

In the first part of the consultation RPS-MCOS carried out door to door consultation with residents and local businesses in the vicinity of the facility seeking information in relation to their concerns about the existing facility and proposed development. Information leaflets were handed out explaining the existing and proposed situation and to advertise the fact that an EIS was being prepared and a Waste Licence Application would be sent to the EPA in due course.

This part of the public consultation took place on the 12th, 18th and 19th of August by calling on people who lived in the vicinity of the area. If there was no reply an information leaflet was put through the mailbox of each house. The leaflet contained contact names (John Finnegan of Organic Gold and Lorraine Herity, Project Scientist from RPS-MCOS) and other details such as phone numbers and email addresses for people to contact if they had any queries in relation to existing and proposed site activities.

In total, nine residents, one of which lives and has a business in the immediate area, were spoken to during the three day consultation period.

1.1.1 Issues Arising out of the First Part of Public Consultation

It was found that there were a number of issues within the local community in relation to composting activities at the existing site. These are outlined and briefly discussed below:

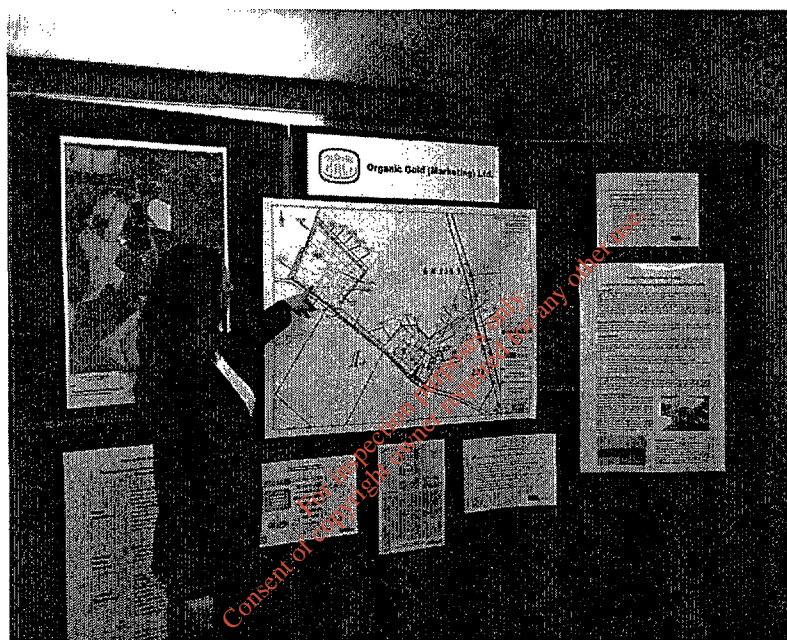
- **Odour** - There was a general consensus in the local community that the existing facility was having an odour impact on residents in the immediate vicinity of the site. There was also a consensus that the facility had operated for a long time in the area without impacting on locals but had caused an odour impact in the period from February – June 2004. Odour emissions arising at the site were the main concern of residents in the area.
- **Health** – There were some concerns especially for children attending the local school in Wilkinstown village in relation to odour and the composting of sludge at the site. Residents were of the belief that raw sewage was being treated at the site. Issues were raised in relation to the health implications of bioaerosols arising at composting plants. Concern was also expressed in regard to the liquid used in the mist air system surrounding the boundary of the composting slab. One resident complained of wind blown litter.
- **Planning** – Residents were concerned that the facility was operating without appropriate planning permission.
- **Communication** – There were also some complaints that there were poor communications between site management and local residents.

Having taken all of these concerns into account in the scoping stage of the EIS, it was understood that emphasis on odour control and management practices would form a critical part of the EIS and the development of the proposed site.

1.2 PUBLIC CONSULTATION ACTIVITIES - PART 2

The second part of the consultation involved inviting local residents to an information day and a site visit of the Organic Gold Facility. The information day was held in the Community Centre in Wilkinstown Village on the 11th of February from 11am to 4 pm. The aim of the meeting was to update residents on new proposals to upgrade the Organic Gold Facility and to provide information on the status of planning and when the Waste Licence application would be submitted to the EPA. This part of the consultation took place shortly after the EIS was previously submitted, as agreed with Meath County Council.

On display on the day were detailed plans of the proposed development, the site layout map and site location map. Details of proposed mitigation measures for Odour, Dust and Bioaerosols were also displayed. A flow diagram of the composting process and the EPA waste licence application procedure were also available for residents' perusal. A brochure outlining future proposals for the development were available to all attendees along with a copy of the non-technical summary of the EIS. An overhead projector was also used to show a video, which demonstrated the Wasteology composting technology in operation at a site in England. RPS-MCOS staff and John Finnegan of Organic Gold were on hand to answer questions as well as provide information about the development.



Display Board Erected at the Public Information day

A public notice was placed in the Meath Chronicle advertising the information day. A notice was also posted to residents in Wilkinstown village. (A copy of the public notice placed in the newspaper and a list of residents to whom this notice was posted to can be found attached in **Appendix A**).

The information day opened at 11am and finished up at 4.50pm. At 11.20am twenty residents arrived together at the centre. RPS-MCOS tried to explain the future proposals for the site both vocally and by using displays board and the videotape to the residents. However, there was a lot of resentment and anger expressed by the residents towards Organic Gold and a lot of grievances were aired in relation to the operation of the site in the past, making it difficult to explain the findings of the EIS and to discuss the future proposals for the site.

The main concerns raised from this group of residents were as follows:

- Odour emissions at the site and the impact it has on residents in the area;
- Litter being carried by crows to neighbours gardens;
- Planning issues. The residents state that the site has no planning permission;

- Residents repeatedly raised concerns that Organic Gold are composting raw sewage and animal carcasses which is the cause of odour emissions at the site. They reported that odour problems only began at the site when Organic Gold began composting this material - it was explained to residents that there has never been raw sewage accepted at the site and this would never be acceptable in the future.
- Regulation and monitoring of the site – who was going to be in charge of this;
- Potential health risks in relation to bioaerosols;
- Price of property in the area.

All the above issues were discussed and information provided to answer the queries as far as possible. However, it was very difficult to deliver complete answers to a group of twenty people who were quite incensed. The residents were not interested in the future proposals for the site but at the way the site has been operated in the past. This group of twenty people left the centre at 11.50am after calling a public meeting to be held between them for the following week.

Following on from this, there was a steady flow of visitors to the centre. Ten more residents were shown the proposals for the future upgrading of the site. Mr. John Finnegan and RPS-MCOS talked directly to them. All of these visitors were interested in the site and spent a significant time amount of time asking questions and examining the display boards. The main issues raised were containment of odour on-site, prevention of water pollution in the area and future management, monitoring and regulation of the site. All of these issues were addressed individually and the measures needed to mitigate against potential nuisances during the future operation of the site explained.

John Finnegan explained to each individual that there would be an open door policy where residents could come on site and see what activities are being undertaken by Organic Gold at their own convenience. He also explained that he would ensure better means of communication between residents and Organic Gold by setting up a complaints register at the site in which all queries and/or complaints would be answered by Organic Gold. This idea was well received by the residents. Due to adverse weather conditions nobody expressed interest in visiting the site.

Overall, the residents who visited the centre in the latter half of the consultation were better informed of the future proposals for the site and Organic Gold's commitment to upgrade the site and prevent future impacts on residents in the area. There were some requests for further information, which will be supplied to these residents accordingly.

Following on from the Public Consultation Organic Gold have Agreed to Immediately:

- Operate an open door policy at the site;
- Set up a complaints register, in which all complaints will be addressed by Organic Gold;
- Improve communication with local residents by meeting with community representatives;

RPS-MCOS was contacted by a community representative, namely Emer Davis of Wilkinstown, Navan on the 14th of February 2005, who requested a copy of the EIS. RPS-MCOS informed her that the EIS would be sent in electronic format once the planning application was resubmitted. In the interim, detailed information was supplied to the community representative in advance of the scheduled public meeting, which gave details of the proposed future development and proposed mitigation measures for nuisances at the site. The most recently published findings on the potential effects of Bioaerosols on communities living in the vicinity of composting plants were also sent to the community representative. Refer to **Appendix B** for copies of the aforementioned correspondence.

1.3 SUMMARY

Public consultation will continue to be a priority of Organic Gold in order to improve communications between the company and the local residents. Organic Gold will also inform residents of plans to upgrade the facility and to mitigate against potential nuisances arising at the site.

APPENDIX A

Public Consultation Newspaper Advertisement

Public Consultation Meeting Notice

Mailing List for Public Consultation

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CLASSIFIEDS

TO CONTACT OUR
ADVERTISING STAFF
TEL 046-9079600

The deadline for
Classified Advertising is
10 am on the Monday
before publication

SPECIAL NOTICES

11

Wilson's Hospital School
Multyfarnham, Co. Westmeath
(044 - 71115 FAX 044 - 71563
email: wilsonsh@iol.ie
Website: www.whs.ie

Co-Educational Boarding and Day School
OPEN DAY
+ Scholarship Examination
Saturday February 5th 2005

From 2:00pm All Welcome

For further information about the school or to arrange a private visit, please contact the
Headmaster, Mr. Adrian Oughton.

- Church of Ireland ethos, weekly worship in School Chapel.
- Students of all faiths welcome
- Full - term boarding, with flexible week-end arrangements. Students have the option of returning home at weekends or staying at school to avail of the wide-ranging recreational opportunities.
- Excellent exam results. 21 subjects to Honours Leaving Cert. level.
- Academic Tutors. Supervised Study.
- Reasonable Fees, with Bursaries, Scholarships & Grants available. Contact Mr. Liam Coyle (Bursar) for details.
- Rural Location set on 200 acres
- Wide ranging sports programme including athletics, badminton, canoeing, hockey, rugby, soccer and table tennis.

Form 1
fully booked
for 2005/2006

MEATH COUNTY COUNCIL
PLANNING AND DEVELOPMENT ACT 2000 (AS AMENDED)
NOTICE OF THE APPROVAL OF PLANNING SCHEME FOR THE CLONMAGADDEN VALLEY STRATEGIC DEVELOPMENT ZONE, NAVAN.

Notice is hereby given in accordance with Section 169 (7) (b) of the Planning and Development Act 2000 (as amended) that An Bord Pleanála approved the making of the Planning Scheme for the Clonmagadden Valley Strategic Development Zone on 18/05/04. The consolidated Planning Scheme, as approved, incorporating the Draft Planning Scheme (June 2003), the modifications adopted on December 1st 2003 by Meath County Council and the further modifications included in the An Bord Pleanála approval, has now been published.

A copy of the approved consolidated planning scheme is available for inspection at the following locations from Monday 7th February, 2005.

- * Planning Office, County Hall, Railway Street, Navan
- * Navan Town Council, Town Hall, Watergate Street, Navan
- * Meath County Library, Railway Street, Navan

Signed
Larry Whelan, Senior Executive Officer,
Planning Department, Meath County Council.

ORGANIC GOLD MARKETING LIMITED
COMPOSTING FACILITY
IN WILKINSTOWN, NAVAN, CO. MEATH

Organic Gold Marketing Ltd. operates a composting facility at Wilkinstown, Navan Co. Meath. The company proposes to upgrade the facility to enable an increased waste intake. A planning application for the development is before Meath County Council and a Waste Licence application will be made shortly to the Environmental Protection Agency. An Environmental Impact Statement (EIS) has been prepared for the proposed development.

In light of proposed changes to the current site Organic Gold are organising an information day at the:

Community Centre in Wilkinstown Village
on the 11th of February from 11am to 4 pm.

This will include a site visit of the current composting facility. All are welcome to attend. For further information please contact:
John Finnegan (Organic Gold) at 046 9054149 or
Lorraine Henry (RPS/MCOSS) at 01 2020870

AIR POLLUTION ACT 1987
Licensing of Industrial Plant

Notice is hereby given that Fitzsimons Fitted Kitchens Limited are applying to Meath County Council for an Air Emissions Licence to operate a Biomass Energy Unit, which will burn wood chippings in their manufacturing plant at Laracor, Trim, Co. Meath. The Unit consists of a single exhaust stack, industry approved dust emissions control system and aggregate feed bin. The principal emission from the exhaust is Carbon Monoxide.

Business Owners

Do you have issues with:
- Profits or Cashflow
- Time or employees

WORKSHOP

Newgrange,
Feb 10th, 8-10am or
Free Business Healthcheck

Contact: David Quirke
086-8590219

GRAVELMOUNT HOUSE,
Castletown, Navan, Co. Meath.
open to public, January 10th - 31st,
May 1st - 31st daily except Bank
Holiday, June 1st - 19th daily
excluding Sundays. Fee: Full €6,
Concession €3.

ARTICLES FOR SALE 12

SALE

Clothes, Socks,
Underwear, Reading
Glasses, Hats, Gloves,
Scarves and much more

Oldcastle Masonic Hall
Thurs. Feb 3rd
11am - 5pm and Macra Hall
Athboy, Fri. Feb 4th
11.30am - 4.30pm

PAUL TUNNEY TYRES

STOCKISTS OF LEADING BRANDS OF CARS, TRUCKS, TRACTORS, AGRI TYRES

New and part-worn plus remoulds • Wheel Balancing and Laser alignment • 24 hour breakdown service
BALLINLOUGH, KELLS, CO. MEATH
PH 046-9243080; 087-2934926

Trim Organic Fruit & Vegetable Stall
Friday 2 pm - 5.30 pm
Town Hall Foyer
Tel. 046 955 33 37

TIMBERMAN
Firewood, Logs.
Cold nights coming
I will warm your hearth, top quality
087-9636925

Chandeliers
IRISH CRYSTAL CHANDELIERS
Kilbree Co. Westmeath

ARTICLES FOR SALE

12

Storage problems?

Let DFS store your files, documents or stock, in our secure purpose-built facility in Dunshaughlin.

Document & File Storage
Unit 12 Dunshaughlin Business Park,
Dunshaughlin, Co. Meath.
Tel: 01 824 0600. Fax: 01 824 0601
www.documentsstorage.ie

DFS
DOCUMENT AND FILE STORAGE

MEATH LOCAL AUTHORITIES
ÚDARÁS ÁITIÚIL NA MÍ
Meath County Council &
The Town Councils of Navan, Trim & Kells

Meath County Council
COMMUNITY GRANTS SCHEME 2005

Under its Community Grants Scheme 2005 for grants for projects which provide environmental, amenity heritage and cultural facilities to the Co.-ty

DUNSANY CASTLE ESTATE

Notice is hereby given that with effect from 1ST FEBRUARY 2005. All lands in the possession of Dunsany Estate Including Lands At Glane And Belper Are Strictly Preserved As **A WILDLIFE SANCTUARY.** Shooting Or Hunting over

LOCAL BLINDS

Roller, Vertical, Venetian & Wooden
Direct Factory Prices
And Free Call Out!!

30% OFF
Selected Range

Freefone 1800-34-11-66

INSURANCE
MOTOR: Private/Commercial.
Now Quoting For Male Drivers: 17 - 65.
SPECIAL RATES: Lady Drivers over 30.

TOP QUALITY dry turf, €2.50 bag. Telephone 006-40123100
FOR SALE
Chain 11

ORGANIC GOLD (MARKETING) LIMITED

COMPOSTING FACILITY IN WILKINSTOWN, NAVAN, CO. MEATH

Organic Gold (Marketing) Ltd. operates a composting facility at Wilkinstown, Navan Co. Meath. The company proposes to upgrade the facility to enable an increased waste intake from 10,000 tonnes to 25,000 tonnes/annum.

A planning application for the development is before Meath County Council and a Waste Licence application will be made shortly to the Environmental Protection Agency. An Environmental Impact Statement (EIS) has been prepared for the proposed development.

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For further information please contact:

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Lorraine Herity (RPS-MCOS) at 01 2020870

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Mailing List of Residents Advised in Relation to Information Day Held at the Community Centre in Wilkinstown, Navan, Co. Meath

1. Siobhan Fitzsimon Sunnybank, Wilkinstown, Navan ,
2. James Smith, Wilkinstown, Navan
3. Judith Mc Keever, Shane Lodge, Wilkinstown, Navan
4. Charlotte White, Bracklin, Wilkinstown, Navan
5. Eilish Boland (Bolands Service station)
6. Emer Davis, Beryleck Lane, Wilkinstown
7. Brendan Markey, Wilkinstown, Navan
8. Margaret Flynn, Wilkinstown, Navan
9. Catherine Gorman, Wilkinstown, Navan
10. Brian Kenny, Wilkinstown, Navan
11. Angela Lynch Wilkinstown, Navan
12. Mary Reilly, Clyinch, Wilkinstown, Navan.
13. Eileen McManus, Wilkinstown, Navan
14. Cyril Meehen, Wilkinstown, Navan
15. Noel Fleming, Wilkinstown, Navan
16. Margaret Mackey, Wilkinstown, Navan
17. Jacinta McManus, Bride Cottage, Wilkinstown, Navan
18. Don McAuey, Wilkinstown, Navan
19. James Mcteer, Glackenstown, Wilkinstown, Navan
20. John Fleming, Clyinch, Wilkinstown, Navan
21. Eamon Duff, Glackenstown, Wilkinstown, Navan
22. Rose Monaghan, Glackenstown, Wilkinstown, Navan
23. Niall Monaghan, Glackenstown, Wilkinstown, Navan
24. Gretta Crahan, Wilkinstown, Navan
25. Patrick McManus Wilkinstown, Navan
26. Cyril Cluskey Wilkinstown, Navan
27. Jude Duff, Glackenstown, Wilkinstown, Navan
28. Cáit Mackey, Wilkinstown, Navan
29. Cáit Driver Wilkinstown, Navan
30. Tommy Driver, Wilkinstown, Navan
31. Martin Mallon, Wilkinstown, Navan

APPENDIX B

Correspondence with Community Representative

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Lorraine Herity

From: Lorraine Herity
Sent: 14 February 2005 16:43
To: 'Emer Davis'
Subject: FW: Information on organic Gold



Public consultation
informatio...



Public Consultation
Leaflet fo...



Dust and Bioerosol
mitigation...



Odour mitigation
measures.PDF

Emer,

I have attached a direct link below to the Cambridgeshire site. The company that run it is Donarbon limited. There really isn't much information there at all. A similar facility is planned in Newtonards, Co. Down in the middle of the town. The councillors from the town went over to the Cambridgeshire site to inspect it before granting planning permission to the applicant in Newtonards. Actually some representatives from the environment and planning section are also planning on visiting the Cambridgeshire site.

I have attached some information on the proposed future developments and how Organic Gold intend on upgrading the facility. Also attached are some mitigation measures which will be introduced at the site to minimise odour, dust and bioaerosols. This information was on display at the information day last Friday. I will follow this email on with some information on bioaerosols which I know is of concern to yourself and Alish Boland amongst others.

If you have any further queries please feel free to contact me.

Best regards,

Lorraine

<http://www.dickersongroup.co.uk/Donarbon/composting.html>

Link to the home page:

<http://www.dickersongroup.co.uk/>

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Consent of copyright owner required for any other use.

Lorraine Herity

From: Lorraine Herity
Sent: 14 February 2005 17:18
To: 'emerdavis@msn.com'
Subject: Bioaerosols at composting plants

Emer,

In response to your queries (and Elish Boland and other residents) to the issue of Bioaerosols at composting plant, I have attached two of the latest reports on bioaerosols from the Health & Safety Executive in the UK, 2003 and from Cre the Composting Association of Ireland, 2004 for your information. These are attached at the bottom of the email. Please note the following important excerpts:

Copyright of document owner required for any other use
Aspergillus fumigatus is particularly important in the composting process due to its capacity to break down waste. When windrows are turned it can become aerosolised and is then termed a bioaerosol. Aspergillus fumigatus is an allergenic fungus and is an opportunistic pathogen which can cause aspergillosis in **severely immunocompromised subjects**. Two case studies have been reported worldwide which are associated with composting. This is in light of

It is important to consider that **Aspergillus fumigatus occurs normally in the environment** and that the spores of the fungus are continuously inhaled by humans but rarely have an adverse effect as they are eliminated by the immune response. It has been estimated that all humans will inhale at least several hundred Aspergillus fumigatus spores per day (Goodley et al, 1994; Latge, 1999) without harm - page 16 of the HSE report.

It has been reported that **bioaerosols emissions from composting plants is in fact lower than certain agricultural activities** such as hay making, and the harvesting and storage of grain. Bioaerosols are also greater at sawmills and wood manufacturing industries. Levels found in composting facilities in other countries range from 102-105 CFU/m³.

Levels recorded in other industries:
103- 109 CFU/m³ - harvesting and storage of grain
104 - 108 CFU/m³ - sawmill

"While the risks to vulnerable individuals such as immunocompromised is greater from Aspergillus fumigatus there is **no evidence that the risk attributable to living near a composting site is greater than exist already anyway**. Dr M. Hogan, Medical Expert-Bord Pleanála OH – Oct 04" presented at a Cre seminar on Bioaerosols by MR. Tom Mc Loughlin of the Environmental Protection Agency, February 2 2005. This was in reference to the case made by the residents at Saint Anne's Park that bioaerosols was affecting a young child suffering from Cancer.

"General population not at risk. **Composting facility does not pose any unique endangerment to the health and welfare of the general public**" - presentation by Dr.Munoo Prasad of Bord na Mona, presented at a Cre seminar on Bioaerosols, February 2 2005, also co-author of Cre Report on Bioaerosols (Attached).

If you have any queries again please contact me.

Regards,

Lorraine



Cré_Bioaerosol_Fin
al.pdf



UK Bioaerosols
report.pdf



DOCUMENT CONTROL SHEET

Client	Organic Gold					
Project Title	Organic Gold Compost Facility					
Document Title	Environmental Impact Statement - Public Consultation Report					
Document No.	MDE0202Rp003Rev01					
This Document Comprises	DCS	TOC	Text	List of Tables	List of Figures	No. of Appendices
	1	0	3	0	0	2

Rev.	Status	Author(s)	Reviewed By	Approved By	Office of Origin	Issue Date
F01	Final	Lorraine Herity	Conall Boland	Larry O'Toole	Carnegie	24/02/04

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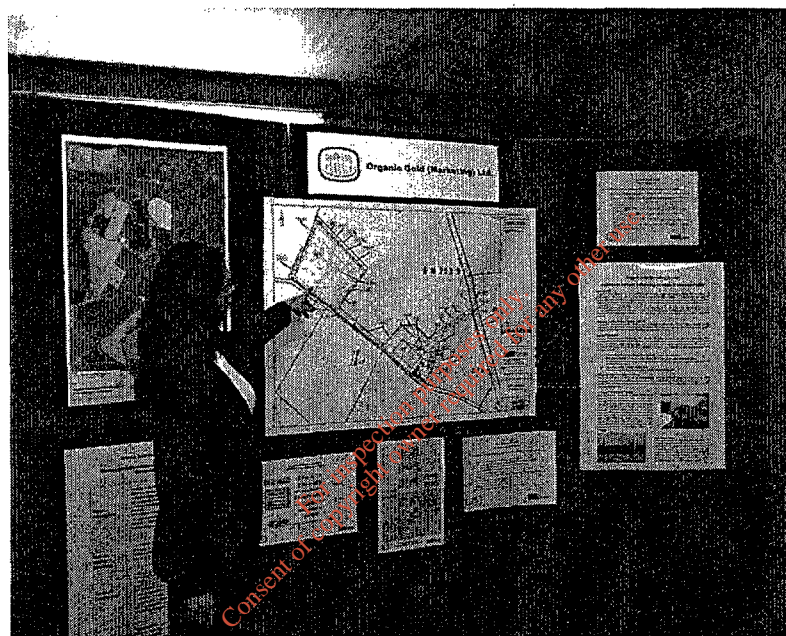
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- **Communication** – There were also some complaints that there were poor communications between site management and local residents.

Having taken all of these concerns into account in the scoping stage of the EIS, it was understood that emphasis on odour control and management practices would form a critical part of the EIS and the development of the proposed site.

1.2 PUBLIC CONSULTATION ACTIVITIES - PART 2

The second part of the consultation involved inviting local residents to an information day and a site visit of the Organic Gold Facility. The information day was held in the Community Centre in Wilkinstown Village on the 11th of February from 11am to 4 pm. The aim of the meeting was to update residents on new proposals to upgrade the Organic Gold Facility and to provide information on the status of planning and when the Waste Licence application would be submitted to the EPA. This part of the consultation took place shortly after the EIS was previously submitted, as agreed with Meath County Council.

On display on the day were detailed plans of the proposed development, the site layout map and site location map. Details of proposed mitigation measures for Odour, Dust and Bioaerosols were also displayed. A flow diagram of the composting process and the EPA waste licence application procedure were also available for residents' perusal. A brochure outlining future proposals for the development were available to all attendees along with a copy of the non-technical summary of the EIS. An overhead projector was also used to show a video, which demonstrated the Wasteology composting technology in operation at a site in England. RPS-MCOS staff and John Finnegan of Organic Gold were on hand to answer questions as well as provide information about the development.



Display Board Erected at the Public Information day

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The information day opened at 11am and finished up at 4.50pm. At 11.20am twenty residents arrived together at the centre. RPS-MCOS tried to explain the future proposals for the site both vocally and by using displays board and the videotape to the residents. However, there was a lot of resentment and anger expressed by the residents towards Organic Gold and a lot of grievances were aired in relation to the operation of the site in the past, making it difficult to explain the findings of the EIS and to discuss the future proposals for the site.

The main concerns raised from this group of residents were as follows:

- Odour emissions at the site and the impact it has on residents in the area;
- Litter being carried by crows to neighbours gardens;
- Planning issues. The residents state that the site has no planning permission;

- Residents repeatedly raised concerns that Organic Gold are composting raw sewage and animal carcasses which is the cause of odour emissions at the site. They reported that odour problems only began at the site when Organic Gold began composting this material - it was explained to residents that there has never been raw sewage accepted at the site and this would never be acceptable in the future.
- Regulation and monitoring of the site – who was going to be in charge of this;
- Potential health risks in relation to bioaerosols;
- Price of property in the area.

All the above issues were discussed and information provided to answer the queries as far as possible. However, it was very difficult to deliver complete answers to a group of twenty people who were quite incensed. The residents were not interested in the future proposals for the site but at the way the site has been operated in the past. This group of twenty people left the centre at 11.50am after calling a public meeting to be held between them for the following week.

Following on from this, there was a steady flow of visitors to the centre. Ten more residents were shown the proposals for the future upgrading of the site. Mr. John Finnegan and RPS-MCOS talked directly to them. All of these visitors were interested in the site and spent a significant time amount of time asking questions and examining the display boards. The main issues raised were containment of odour on-site, prevention of water pollution in the area and future management, monitoring and regulation of the site. All of these issues were addressed individually and the measures needed to mitigate against potential nuisances during the future operation of the site explained.

John Finnegan explained to each individual that there would be an open door policy where residents could come on site and see what activities are being undertaken by Organic Gold at their own convenience. He also explained that he would ensure better means of communication between residents and Organic Gold by setting up a complaints register at the site in which all queries and/or complaints would be answered by Organic Gold. This idea was well received by the residents. Due to adverse weather conditions nobody expressed interest in visiting the site.

Overall, the residents who visited the centre in the latter half of the consultation were better informed of the future proposals for the site and Organic Gold's commitment to upgrade the site and prevent future impacts on residents in the area. There were some requests for further information, which will be supplied to these residents accordingly.

Following on from the Public Consultation Organic Gold have Agreed to Immediately:

- Operate an open door policy at the site;
- Set up a complaints register, in which all complaints will be addressed by Organic Gold;
- Improve communication with local residents by meeting with community representatives;

RPS-MCOS was contacted by a community representative, namely Emer Davis of Wilkinstown, Navan on the 14th of February 2005, who requested a copy of the EIS. RPS-MCOS informed her that the EIS would be sent in electronic format once the planning application was resubmitted. In the interim, detailed information was supplied to the community representative in advance of the scheduled public meeting, which gave details of the proposed future development and proposed mitigation measures for nuisances at the site. The most recently published findings on the potential effects of Bioaerosols on communities living in the vicinity of composting plants were also sent to the community representative. Refer to **Appendix B** for copies of the aforementioned correspondence.

1.3 SUMMARY

Public consultation will continue to be a priority of Organic Gold in order to improve communications between the company and the local residents. Organic Gold will also inform residents of plans to upgrade the facility and to mitigate against potential nuisances arising at the site.

APPENDIX A

Public Consultation Newspaper Advertisement

Public Consultation Meeting Notice

Mailing List for Public Consultation

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CLASSIFIEDS

TO CONTACT OUR
ADVERTISING STAFF
TEL 046-9079600

The deadline for
Classified Advertising is
10 am on the Monday
before publication

SPECIAL NOTICES

11

Wilson's Hospital School
Multyfarnham, Co. Westmeath
(044 - 71115 FAX 044 - 71563
email: wilsonsh@iol.ie
Website: www.whs.ie

Co-Educational Boarding and Day School
OPEN DAY
+ Scholarship Examination
Saturday February 5th 2005

- From 2:00pm All Welcome
- For further information about the school or to arrange a private visit, please contact the
Headmaster, Mr. Adrian Oughion.
- Church of Ireland ethos, weekly worship in School Chapel.
 - Students of all faiths welcome
 - Full - term boarding, with flexible week-end arrangements. Students have the option of returning home at weekends or staying at school to avail of the wide-ranging recreational opportunities.
 - Excellent exam results. 21 subjects to Honours Leaving Cert. level.
 - Academic Tutors. Supervised Study.
 - Reasonable Fees, with Bursaries, Scholarships & Grants available.
 - Contact Mr. Liam Coyle (Bursar) for details.
 - Rural Location set on 200 acres
 - Wide ranging sports programme including athletics, badminton, canoeing, hockey, rugby, soccer and table tennis.

Form 1
fully booked
for 2005/2006

MEATH COUNTY COUNCIL
PLANNING AND DEVELOPMENT ACT 2000 (AS AMENDED)
**NOTICE OF THE APPROVAL OF PLANNING
SCHEME FOR THE CLONMAGADDEN VALLEY
STRATEGIC DEVELOPMENT ZONE, NAVAN.**

Notice is hereby given in accordance with Section 169 (7) (b) of the Planning and Development Act 2000 (as amended) that An Bord Pleanála approved the making of the Planning Scheme for the Clonmagadden Valley Strategic Development Zone on 18/05/04. The consolidated Planning Scheme, as approved, incorporating the Draft Planning Scheme (June 2003), the modifications adopted on December 1st 2003 by Meath County Council and the further modifications included in the An Bord Pleanála approval, has now been published.

A copy of the approved consolidated planning scheme is available for inspection at the following locations from Monday 7th February, 2005.

- * Planning Office, County Hall, Railway Street, Navan
- * Navan Town Council, Town Hall, Watergate Street Navan
- * Meath County Library, Railway Street, Navan

Signed
Larry Whelan, Senior Executive Officer,
Planning Department, Meath County Council.

ORGANIC GOLD MARKETING LIMITED
COMPOSTING FACILITY
IN WILKINSTOWN, NAVAN, CO. MEATH

Organic Gold Marketing Ltd. operates a composting facility at Wilkinstown, Navan, Co. Meath. The company proposes to upgrade the facility to enable an increased waste intake. A planning application for the development is before Meath County Council and a Waste Licence application will be made shortly to the Environmental Protection Agency. An Environmental Impact Statement (EIS) has been prepared for the proposed development.

In light of proposed changes to the current site Organic Gold are organising an information day at the:

Community Centre in Wilkinstown Village
on the 11th of February from 11am to 4 pm.
This will include a site visit of the current composting facility. All are welcome to attend.
For further information please contact:
John Finnegan (Organic Gold) at 046 9054149 or
Lorraine Henry (RPS-MCOS) at 01 2026870

AIR POLLUTION ACT 1987

Licensing of Industrial Plant

Notice is hereby given that Fitzsimons Fitted Kitchens Limited are applying to Meath County Council for an Air Emissions Licence to operate a Biomass Energy Unit, which will burn wood chippings in their manufacturing plant at Laracor, Trim, Co. Meath. The Unit consists of a single exhaust stack, industry approved dust emissions control system and aggregate feed bin. The principal emission from the exhaust is Carboon Monoxide.

Business Owners

- Do you have issues with:
- Profits or Cashflow
 - Time or employees

WORKSHOP
Newgrange,
Feb 10th, 8-10am or
Free Business Healthcheck

Contact: David Quirk
086-8590219

SALE

- Clothes, Socks,
Underwear, Reading
Glasses, Hats, Gloves,
Scarves and much more

Oldcastle Masonic Hall
Thurs. Feb 3rd
11am - 5pm and Macro Hall
Athboy, Fri. Feb 4th
11.30am - 4.30pm

**DUNSANY CASTLE
ESTATE**

Notice is hereby given that with effect from 1ST FEBRUARY 2005, All lands in the possession of Dunsany Estate including Lands At Glane And Belper Are Strictly Preserved As A WILDLIFE SANCTUARY. Shooting Or Hunting over

ARTICLES
FOR SALE

12

Storage problems?

Let DFS store your files, documents or stock, in our secure purpose-built facility in Dunshaughlin.

Document & File Storage
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Dunshaughlin, Co. Meath.
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www.documentstorage.ie

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AND FILE
STORAGE

ARTICLES
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STOCKISTS OF LEADING
BRANDS OF CARS, TRUCKS,
TRACTORS, AGRI TYRES
New and part-worn plus
remoulds • Wheel
Balancing and Laser align-
ment • 24 hour breakdown
service
BALLINLOUGH, KELLS,
CO. MEATH
PH 046-9243086; 087-2934926

**Trim Organic Fruit
& Vegetable Stall**

Friday 2 pm - 5.30 pm
Town Hall Foyer
Tel. 046 955 33 37

TIMBERMAN

Firewood, Logs.
Cold nights coming
I will warm your hearth,
top quality
087-9636925

Chandeliers
IRISH CRYSTAL CHANDELIERS
Kilbarron, Co. Westmeath

**LOCAL
BLINDS**

Roller, Vertical,
Venetian & Wooden
Direct Factory Prices
And Free Call Out!!

30% OFF
Selected Range

Freefone 1800-34-11-66

INSURANCE
MOTOR: Private/Commercial.
Now Quoting For Male
Drivers: 17 - 65.
SPECIAL RATES: Lady Drivers
and over 50.

TOP QUALITY dry turf, €2.50
bag. Telephone 096-4016310
FOR SALE

MEATH LOCAL AUTHORITIES
ÚDARÁS ÁITIÚIL NA MÍ
Meath County Council &
The Town Councils of Navan, Trim & Kells

Meath County Council
COMMUNITY GRANTS SCHEME 2005

Under its Community Grants Scheme 2005 for grants for projects which provide environmental, amenity heritage and cultural facilities to the County.

ORGANIC GOLD (MARKETING) LIMITED

COMPOSTING FACILITY IN WILKINSTOWN, NAVAN, CO. MEATH

Organic Gold (Marketing) Ltd. operates a composting facility at Wilkinstown, Navan Co. Meath. The company proposes to upgrade the facility to enable an increased waste intake from 10,000 tonnes to 25,000 tonnes/annum.

A planning application for the development is before Meath County Council and a Waste Licence application will be made shortly to the Environmental Protection Agency. An Environmental Impact Statement (EIS) has been prepared for the proposed development.

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Community Centre in Wilkinstown Village

on the 11th of February from 11am to 4 pm.

This will include a site visit of the current composting facility. All are welcome to attend.

For further information please contact:

John Finnegan (Organic Gold) at 046 9054149 or
Lorraine Herity (RPS-MCOS) at 01 2020870

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**Mailing List of Residents Advised in Relation to Information Day Held at the
Community Centre in Wilkinstown, Navan, Co. Meath**

1. Siobhan Fitzsimon Sunnybank, Wilkinstown, Navan ,
2. James Smith, Wilkinstown, Navan
3. Judith Mc Keever, Shane Lodge, Wilkinstown, Navan
4. Charlotte White, Bracklin, Wilkinstown, Navan
5. Eilish Boland (Bolands Service station)
6. Emer Davis, Beryleck Lane, Wilkinstown
7. Brendan Markey, Wilkinstown, Navan
8. Margaret Flynn, Wilkinstown, Navan
9. Catherine Gorman, Wilkinstown, Navan
10. Brian Kenny, Wilkinstown, Navan
11. Angela Lynch Wilkinstown, Navan
12. Mary Reilly, Clynch, Wilkinstown, Navan.
13. Eileen McManus, Wilkinstown, Navan
14. Cyril Meehen, Wilkinstown, Navan
15. Noel Fleming, Wilkinstown, Navan
16. Margaret Mackey, Wilkinstown, Navan
17. Jacinta McManus, Bride Cottage, Wilkinstown, Navan
18. Don McAuey, Wilkinstown, Navan
19. James Mcteer, Glackenstown, Wilkinstown, Navan
20. John Fleming, Clynch, Wilkinstown, Navan
21. Eamon Duff, Glackenstown, Wilkinstown, Navan
22. Rose Monaghan, Glackenstown, Wilkinstown, Navan
23. Niall Monaghan, Glackenstown, Wilkinstown, Navan
24. Gretta Crahan, Wilkinstown, Navan
25. Patrick McManus Wilkinstown, Navan
26. Cyril Cluskey Wilkinstown, Navan
27. Jude Duff, Glackenstown, Wilkinstown, Navan
28. Cáit Mackey, Wilkinstown, Navan
29. Cáit Driver Wilkinstown, Navan
30. Tommy Driver, Wilkinstown, Navan
31. Martin Mallon, Wilkinstown, Navan

APPENDIX B

Correspondence with Community Representative

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Lorraine Herity

From: Lorraine Herity
Sent: 14 February 2005 16:43
To: 'Emer Davis'
Subject: FW: Information on organic Gold



Public consultation
informatio...



Public Consultation
Leaflet fo...



Dust and Bioaerosol
mitigation...



Odour mitigation
measures.PDF

Emer,

I have attached a direct link below to the Cambridgeshire site. The company that run it is Donarbon limited. There really isn't much information there at all. A similar facility is planned in Newtonards, Co. Down in the middle of the town. The councillors from the town went over to the Cambridgeshire site to inspect it before granting planning permission to the applicant in Newtonards. Actually some representatives from the environment and planning section are also planning on visiting the Cambridgeshire site.

I have attached some information on the proposed future developments and how Organic Gold intend on upgrading the facility. Also attached are some mitigation measures which will be introduced at the site to minimise odour, dust and bioaerosols. This information was on display at the information day last Friday. I will follow this email on with some information on bioaerosols which I know is of concern to yourself and Alish Boland amongst others.

If you have any further queries please feel free to contact me.

Best regards,

Lorraine

<http://www.dickersongroup.co.uk/Donarbon/composting.html>

Link to the home page:

<http://www.dickersongroup.co.uk/>

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Consent of copyright owner required for any other use.

Lorraine Herity

From: Lorraine Herity
Sent: 14 February 2005 17:18
To: 'emerdavis@msn.com'
Subject: Bioaerosols at composting plants

Emer,

In response to your queries (and Elish Boland and other residents) to the issue of Bioaerosols at composting plant, I have attached two of the latest reports on bioaerosols from the Health & Safety Executive in the UK, 2003 and from Cre the Composting Association of Ireland, 2004 for your information. These are attached at the bottom of the email. Please note the following important excerpts:

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Aspergillus fumigatus is particularly important in the composting process due to its capacity to break down waste. When windrows are turned it can become aerosolised and is then termed a bioaerosol. Aspergillus fumigatus is an allergenic fungus and is an opportunistic pathogen which can cause aspergillosis in **severely immunocompromised subjects**. Two case studies have been reported worldwide which are associated with composting. This is in light of

It is important to consider that **Aspergillus fumigatus occurs normally in the environment** and that the spores of the fungus are continuously inhaled by humans but rarely have an adverse effect as they are eliminated by the immune response. It has been estimated that all humans will inhale at least several hundred Aspergillus fumigatus spores per day (Goodley et al, 1994; Latge, 1999) without harm - page 16 of the HSE report.

It has been reported that **bioaerosols emissions from composting plants is in fact lower than certain agricultural activities** such as hay making, and the harvesting and storage of grain. Bioaerosols are also greater at sawmills and wood manufacturing industries.

Levels found in composting facilities in other countries range from 102 - 105 CFU/m³.

Levels recorded in other industries:
103- 109 CFU/m³ - harvesting and storage of grain
104 - 108 CFU/m³ - sawmill

"While the risks to vulnerable individuals such as immunocompromised is greater from Aspergillus fumigatus there is **no evidence that the risk attributable to living near a composting site is greater than exist already anyway**. Dr M. Hogan, Medical Expert-Bord Pleanála OH – Oct 04" presented at a Cre seminar on Bioaerosols by MR. Tom Mc Loughlin of the Environmental Protection Agency, February 2 2005. This was in reference to the case made by the residents at Saint Anne's Park that bioaerosols was affecting a young child suffering from Cancer.

"General population not at risk. **Composting facility does not pose any unique endangerment to the health and welfare of the general public**" - presentation by Dr.Munoo Prasad of Bord na Mona, presented at a Cre seminar on Bioaerosols, February 2 2005, also co-author of Cre Report on Bioaerosols (Attached).

If you have any queries again please contact me.

Regards,

Lorraine



Cré_Bioaerosol_Fin
al.pdf



UK Bioaerosols
report.pdf



DOCUMENT CONTROL SHEET

Client	Organic Gold					
Project Title	Organic Gold Compost Facility					
Document Title	Environmental Impact Statement - Public Consultation Report					
Document No.	MDE0202Rp003Rev01					
This Document Comprises	DCS	TOC	Text	List of Tables	List of Figures	No. of Appendices
	1	0	3	0	0	2

Rev.	Status	Author(s)	Reviewed By	Approved By	Office of Origin	Issue Date
F01	Final	Lorraine Herity	Conall Boland	Larry O'Toole	Carnegie	24/02/04

1.0 INTRODUCTION

This report summarises the Public Consultation exercise carried out to date in relation to an EIS prepared by RPS-MCOS on behalf of Organic Gold (Marketing) Ltd. of Wilkinstown, Navan, Co. Meath. The EIS was submitted to Meath County Council on the 14th of January 2005 as part of a planning application. In the EIS there was some information provided on the first part of consultation carried out in the village of Wilkinstown which is briefly described below. However the main emphasis of this report is to describe the second part of the consultation where residents were invited to an information day and site visit on the 11th of February 2005 shortly after the EIS had previously been submitted.

From the outset, public consultation was considered an important part of the EIS, as it was known that there were a number of complaints made by residents of Wilkinstown to the Planning and Environment Section of Meath County Council. The issues raised by complainants were examined and following on from this, a programme of public consultation was devised by Organic Gold along with RPS-MCOS.

1.1 SUMMARY OF PREVIOUS PUBLIC CONSULTATION ACTIVITIES

In the first part of the consultation RPS-MCOS carried out door to door consultation with residents and local businesses in the vicinity of the facility seeking information in relation to their concerns about the existing facility and proposed development. Information leaflets were handed out explaining the existing and proposed situation and to advertise the fact that an EIS was being prepared and a Waste Licence Application would be sent to the EPA in due course.

This part of the public consultation took place on the 12th, 18th and 19th of August by calling on people who lived in the vicinity of the area. If there was no reply an information leaflet was put through the mailbox of each house. The leaflet contained contact names (John Finnegan of Organic Gold and Lorraine Herity, Project Scientist from RPS-MCOS) and other details such as phone numbers and email addresses for people to contact if they had any queries in relation to existing and proposed site activities.

In total, nine residents, one of which lives and has a business in the immediate area, were spoken to during the three day consultation period.

1.1.1 Issues Arising out of the First Part of Public Consultation

It was found that there were a number of issues within the local community in relation to composting activities at the existing site. These are outlined and briefly discussed below:

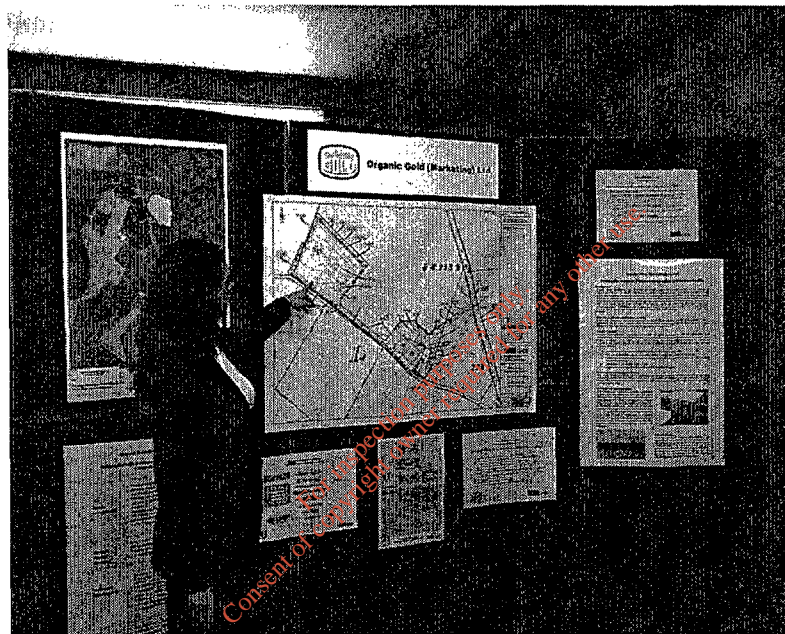
- **Odour** - There was a general consensus in the local community that the existing facility was having an odour impact on residents in the immediate vicinity of the site. There was also a consensus that the facility had operated for a long time in the area without impacting on locals but had caused an odour impact in the period from February – June 2004. Odour emissions arising at the site were the main concern of residents in the area.
- **Health** – There were some concerns especially for children attending the local school in Wilkinstown village in relation to odour and the composting of sludge at the site. Residents were of the belief that raw sewage was being treated at the site. Issues were raised in relation to the health implications of bioaerosols arising at composting plants. Concern was also expressed in regard to the liquid used in the mist air system surrounding the boundary of the composting slab. One resident complained of wind blown litter.
- **Planning** – Residents were concerned that the facility was operating without appropriate planning permission.
- **Communication** – There were also some complaints that there were poor communications between site management and local residents.

Having taken all of these concerns into account in the scoping stage of the EIS, it was understood that emphasis on odour control and management practices would form a critical part of the EIS and the development of the proposed site.

1.2 PUBLIC CONSULTATION ACTIVITIES - PART 2

The second part of the consultation involved inviting local residents to an information day and a site visit of the Organic Gold Facility. The information day was held in the Community Centre in Wilkinstown Village on the 11th of February from 11am to 4 pm. The aim of the meeting was to update residents on new proposals to upgrade the Organic Gold Facility and to provide information on the status of planning and when the Waste Licence application would be submitted to the EPA. This part of the consultation took place shortly after the EIS was previously submitted, as agreed with Meath County Council.

On display on the day were detailed plans of the proposed development, the site layout map and site location map. Details of proposed mitigation measures for Odour, Dust and Bioaerosols were also displayed. A flow diagram of the composting process and the EPA waste licence application procedure were also available for residents' perusal. A brochure outlining future proposals for the development were available to all attendees along with a copy of the non-technical summary of the EIS. An overhead projector was also used to show a video, which demonstrated the Wasteology composting technology in operation at a site in England. RPS-MCOS staff and John Finnegan of Organic Gold were on hand to answer questions as well as provide information about the development.



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The main concerns raised from this group of residents were as follows:

- Odour emissions at the site and the impact it has on residents in the area;
- Litter being carried by crows to neighbours gardens;
- Planning issues. The residents state that the site has no planning permission;

- Residents repeatedly raised concerns that Organic Gold are composting raw sewage and animal carcasses which is the cause of odour emissions at the site. They reported that odour problems only began at the site when Organic Gold began composting this material - it was explained to residents that there has never been raw sewage accepted at the site and this would never be acceptable in the future.
- Regulation and monitoring of the site – who was going to be in charge of this;
- Potential health risks in relation to bioaerosols;
- Price of property in the area.

All the above issues were discussed and information provided to answer the queries as far as possible. However, it was very difficult to deliver complete answers to a group of twenty people who were quite incensed. The residents were not interested in the future proposals for the site but at the way the site has been operated in the past. This group of twenty people left the centre at 11.50am after calling a public meeting to be held between them for the following week.

Following on from this, there was a steady flow of visitors to the centre. Ten more residents were shown the proposals for the future upgrading of the site. Mr. John Finnegan and RPS-MCOS talked directly to them. All of these visitors were interested in the site and spent a significant time amount of time asking questions and examining the display boards. The main issues raised were containment of odour on-site, prevention of water pollution in the area and future management, monitoring and regulation of the site. All of these issues were addressed individually and the measures needed to mitigate against potential nuisances during the future operation of the site explained.

John Finnegan explained to each individual that there would be an open door policy where residents could come on site and see what activities are being undertaken by Organic Gold at their own convenience. He also explained that he would ensure better means of communication between residents and Organic Gold by setting up a complaints register at the site in which all queries and/or complaints would be answered by Organic Gold. This idea was well received by the residents. Due to adverse weather conditions nobody expressed interest in visiting the site.

Overall, the residents who visited the centre in the latter half of the consultation were better informed of the future proposals for the site and Organic Gold's commitment to upgrade the site and prevent future impacts on residents in the area. There were some requests for further information, which will be supplied to these residents accordingly.

Following on from the Public Consultation Organic Gold have Agreed to Immediately:

- Operate an open door policy at the site;
- Set up a complaints register, in which all complaints will be addressed by Organic Gold;
- Improve communication with local residents by meeting with community representatives;

RPS-MCOS was contacted by a community representative, namely Emer Davis of Wilkinstown, Navan on the 14th of February 2005, who requested a copy of the EIS. RPS-MCOS informed her that the EIS would be sent in electronic format once the planning application was resubmitted. In the interim, detailed information was supplied to the community representative in advance of the scheduled public meeting, which gave details of the proposed future development and proposed mitigation measures for nuisances at the site. The most recently published findings on the potential effects of Bioaerosols on communities living in the vicinity of composting plants were also sent to the community representative. Refer to **Appendix B** for copies of the aforementioned correspondence.

1.3 SUMMARY

Public consultation will continue to be a priority of Organic Gold in order to improve communications between the company and the local residents. Organic Gold will also inform residents of plans to upgrade the facility and to mitigate against potential nuisances arising at the site.

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Classified Advertising is
10 am on the Monday
before publication

SPECIAL NOTICES

11

Wilson's Hospital School
Multyfarnham, Co. Westmeath
(044 - 71115 FAX 044 - 71563)
email: wilsonsh@iol.ie
Website: www.whs.ie

Co-Educational Boarding and Day School
OPEN DAY
+ Scholarship Examination
Saturday February 5th 2005

From 2:00pm All Welcome

For further information about the school or to arrange a private visit, please contact the

Headmaster, Mr. Adrian Oughton.

- Church of Ireland ethos, weekly worship in School Chapel.
- Students of all faiths welcome
- Full - term boarding, with flexible week-end arrangements. Students have the option of returning home at weekends or staying at school to avail of the wide-ranging recreational opportunities.
- Excellent exam results. 21 subjects to Honours Leaving Cert. level.
- Academic Tutors. Supervised Study.
- Reasonable Fees, with Bursaries, Scholarships & Grants available. Contact Mr. Liam Coyle (Bursar) for details.
- Rural Location set on 200 acres
- Wide ranging sports programme including athletics, badminton, canoeing, hockey, rugby, soccer and table tennis.

Form 1
fully booked
for 2005/2006

MEATH COUNTY COUNCIL
PLANNING AND DEVELOPMENT ACT 2000 (AS AMENDED)
NOTICE OF THE APPROVAL OF PLANNING SCHEME FOR THE CLONMAGADEN VALLEY STRATEGIC DEVELOPMENT ZONE, NAVAN.

Notice is hereby given in accordance with Section 169 (7) (b) of the Planning and Development Act 2000 (as amended) that An Bord Pleanála approved the making of the Planning Scheme for the Clonmagaden Valley Strategic Development Zone on 18/05/04. The consolidated Planning Scheme, as approved, incorporating the Draft Planning Scheme (June 2003), the modifications adopted on December 1st 2003 by Meath County Council and the further modifications included in the An Bord Pleanála approval, has now been published.

A copy of the approved consolidated planning scheme is available for inspection at the following locations from Monday 7th February, 2005.

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- * Navan Town Council, Town Hall, Watergate Street, Navan
- * Meath County Library, Railway Street, Navan

Signed
Larry Whelan, Senior Executive Officer,
Planning Department, Meath County Council.

ORGANIC GOLD MARKETING LIMITED
COMPOSTING FACILITY
IN WILKINSTOWN, NAVAN, CO. MEATH

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Lorraine Herity (RPS-MCOS) at 01 2020870

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Business Owners

Do you have issues with:
- Profits or Cashflow
- Time or employees

WORKSHOP
Newgrange,
Feb 10th, 8-10am or
Free Business Healthcheck

Contact: David Quirk
086-8590219

GRAVELMOUNT HOUSE,
Castletown, Navan, Co. Meath,
open to public, January 10th - 31st,
May 1st - 31st daily except Bank
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Oldcastle Masonic Hall
Thurs. Feb 3rd
11am - 5pm and Macra Hall
Athboy, Fri. Feb 4th
11.30am - 4.30pm

DUNSANY CASTLE ESTATE

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Friday 2 pm - 5.30 pm
Town Hall Foyer
Tel. 046 955 33 37

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Meath County Council & The Town Councils of Navan, Trim & Kells

Meath County Council
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Community Centre in Wilkinstown, Navan, Co. Meath**

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5. Eilish Boland (Bolands Service station)
6. Emer Davis, Beryleck Lane, Wilkinstown
7. Brendan Markey, Wilkinstown, Navan
8. Margaret Flynn, Wilkinstown, Navan
9. Catherine Gorman, Wilkinstown, Navan
10. Brian Kenny, Wilkinstown, Navan
11. Angela Lynch Wilkinstown, Navan
12. Mary Reilly, Clyinch, Wilkinstown, Navan.
13. Eileen McManus, Wilkinstown, Navan
14. Cyril Meehen, Wilkinstown, Navan
15. Noel Fleming, Wilkinstown, Navan
16. Margaret Mackey, Wilkinstown, Navan
17. Jacinta McManus, Bride Cottage, Wilkinstown, Navan
18. Don McAuey, Wilkinstown, Navan
19. James Mcteer, Glackenstown, Wilkinstown, Navan
20. John Fleming, Clyinch, Wilkinstown, Navan
21. Eamon Duff, Glackenstown, Wilkinstown, Navan
22. Rose Monaghan, Glackenstown, Wilkinstown, Navan
23. Niall Monaghan, Glackenstown, Wilkinstown, Navan
24. Gretta Crahan, Wilkinstown, Navan
25. Patrick McManus Wilkinstown, Navan
26. Cyril Cluskey Wilkinstown, Navan
27. Jude Duff, Glackenstown, Wilkinstown, Navan
28. Cáit Mackey, Wilkinstown, Navan
29. Cáit Driver Wilkinstown, Navan
30. Tommy Driver, Wilkinstown, Navan
31. Martin Mallon, Wilkinstown, Navan

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APPENDIX B

Correspondence with Community Representative

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Lorraine Herity

From: Lorraine Herity
Sent: 14 February 2005 16:43
To: 'Emer Davis'
Subject: FW: Information on organic Gold



Public consultation
informatio...



Public Consultation
Leaflet fo...



Dust and Bioaerosol
mitigation...



Odour mitigation
measures.PDF

Emer,

I have attached a direct link below to the Cambridgeshire site. The company that run it is Donarbon limited. There really isn't much information there at all. A similar facility is planned in Newtonards, Co. Down in the middle of the town. The councillors from the town went over to the Cambridgeshire site to inspect it before granting planning permission to the applicant in Newtonards. Actually some representatives from the environment and planning section are also planning on visiting the Cambridgeshire site.

I have attached some information on the proposed future developments and how Organic Gold intend on upgrading the facility. Also attached are some mitigation measures which will be introduced at the site to minimise odour, dust and bioaerosols. This information was on display at the information day last Friday. I will follow this email on with some information on bioaerosols which I know is of concern to yourself and Alish Boland amongst others.

If you have any further queries please feel free to contact me.

Best regards,

Lorraine

<http://www.dickersongroup.co.uk/Donarbon/composting.html>

Link to the home page:

<http://www.dickersongroup.co.uk/>

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Lorraine Herity

From: Lorraine Herity
Sent: 14 February 2005 17:18
To: 'emerdavis@msn.com'
Subject: Bioaerosols at composting plants

Emer,

In response to your queries (and Elish Boland and other residents) to the issue of Bioaerosols at composting plant, I have attached two of the latest reports on bioaerosols from the Health & Safety Executive in the UK, 2003 and from Cre the Composting Association of Ireland, 2004 for your information. These are attached at the bottom of the email. Please note the following important excerpts:

Aspergillus fumigatus is particularly important in the composting process due to its capacity to break down waste. When windrows are turned it can become aerosolised and is then termed a bioaerosol. *Aspergillus fumigatus* is an allergenic fungus and is an opportunistic pathogen which can cause aspergillosis in **severely immunocompromised subjects**. Two case studies have been reported worldwide which are associated with composting. This is in light of

It is important to consider that ***Aspergillus fumigatus* occurs normally in the environment** and that the spores of the fungus are continuously inhaled by humans but rarely have an adverse effect as they are eliminated by the immune response. It has been estimated that all humans will inhale at least several hundred *Aspergillus fumigatus* spores per day (Goodley et al, 1994; Latge, 1999) without harm - page 16 of the HSE report.

It has been reported that **bioaerosols emissions from composting plants is in fact lower than certain agricultural activities** such as hay making, and the harvesting and storage of grain. Bioaerosols are also greater at sawmills and wood manufacturing industries.

Levels found in composting facilities in other countries range from 102 - 105 CFU/m³.

Levels recorded in other industries:

103- 109 CFU/m³ - harvesting and storage of grain

104 - 108 CFU/m³ - sawmill

"While the risks to vulnerable individuals such as immunocompromised is greater from *Aspergillus fumigatus* there is **no evidence that the risk attributable to living near a composting site is greater than exist already anyway**. Dr M. Hogan, Medical Expert-Bord Pleanála OH – Oct 04" presented at a Cre seminar on Bioaerosols by MR. Tom Mc Loughlin of the Environmental Protection Agency, February 2 2005, This was in reference to the case made by the residents at Saint Anne's Park that bioaerosols was affecting a young child suffering from Cancer.

"General population not at risk. **Composting facility does not pose any unique endangerment to the health and welfare of the general public**" - presentation by Dr.Munoo Prasad of Bord na Mona, presented at a Cre seminar on Bioaerosols, February 2 2005, also co-author of Cre Report on Bioaerosols (Attached).

If you have any queries again please contact me.

Regards,

Lorraine



Cré_Bioaerosol_Fin
al.pdf



UK Bioaerosols
report.pdf



DOCUMENT CONTROL SHEET

Client	Organic Gold					
Project Title	Organic Gold Compost Facility					
Document Title	Environmental Impact Statement - Public Consultation Report					
Document No.	MDE0202Rp003Rev01					
This Document Comprises	DCS	TOC	Text	List of Tables	List of Figures	No. of Appendices
	1	0	3	0	0	2

Rev.	Status	Author(s)	Reviewed By	Approved By	Office of Origin	Issue Date
F01	Final	Lorraine Herity	Conall Boland	Larry O'Toole	Carnegie	24/02/04

1.0 INTRODUCTION

This report summarises the Public Consultation exercise carried out to date in relation to an EIS prepared by RPS-MCOS on behalf of Organic Gold (Marketing) Ltd. of Wilkinstown, Navan, Co. Meath. The EIS was submitted to Meath County Council on the 14th of January 2005 as part of a planning application. In the EIS there was some information provided on the first part of consultation carried out in the village of Wilkinstown which is briefly described below. However the main emphasis of this report is to describe the second part of the consultation where residents were invited to an information day and site visit on the 11th of February 2005 shortly after the EIS had previously been submitted.

From the outset, public consultation was considered an important part of the EIS, as it was known that there were a number of complaints made by residents of Wilkinstown to the Planning and Environment Section of Meath County Council. The issues raised by complainants were examined and following on from this, a programme of public consultation was devised by Organic Gold along with RPS-MCOS.

1.1 SUMMARY OF PREVIOUS PUBLIC CONSULTATION ACTIVITIES

In the first part of the consultation RPS-MCOS carried out door to door consultation with residents and local businesses in the vicinity of the facility seeking information in relation to their concerns about the existing facility and proposed development. Information leaflets were handed out explaining the existing and proposed situation and to advertise the fact that an EIS was being prepared and a Waste Licence Application would be sent to the EPA in due course.

This part of the public consultation took place on the 12th, 18th and 19th of August by calling on people who lived in the vicinity of the area. If there was no reply an information leaflet was put through the mailbox of each house. The leaflet contained contact names (John Finnegan of Organic Gold and Lorraine Herity, Project Scientist from RPS-MCOS) and other details such as phone numbers and email addresses for people to contact if they had any queries in relation to existing and proposed site activities.

In total, nine residents, one of which lives and has a business in the immediate area, were spoken to during the three day consultation period.

1.1.1 Issues Arising out of the First Part of Public Consultation

It was found that there were a number of issues within the local community in relation to composting activities at the existing site. These are outlined and briefly discussed below:

- **Odour** - There was a general consensus in the local community that the existing facility was having an odour impact on residents in the immediate vicinity of the site. There was also a consensus that the facility had operated for a long time in the area without impacting on locals but had caused an odour impact in the period from February – June 2004. Odour emissions arising at the site were the main concern of residents in the area.
- **Health** – There were some concerns especially for children attending the local school in Wilkinstown village in relation to odour and the composting of sludge at the site. Residents were of the belief that raw sewage was being treated at the site. Issues were raised in relation to the health implications of bioaerosols arising at composting plants. Concern was also expressed in regard to the liquid used in the mist air system surrounding the boundary of the composting slab. One resident complained of wind blown litter.
- **Planning** – Residents were concerned that the facility was operating without appropriate planning permission.
- **Communication** – There were also some complaints that there were poor communications between site management and local residents.

Having taken all of these concerns into account in the scoping stage of the EIS, it was understood that emphasis on odour control and management practices would form a critical part of the EIS and the development of the proposed site.

1.2 PUBLIC CONSULTATION ACTIVITIES - PART 2

The second part of the consultation involved inviting local residents to an information day and a site visit of the Organic Gold Facility. The information day was held in the Community Centre in Wilkinstown Village on the 11th of February from 11am to 4 pm. The aim of the meeting was to update residents on new proposals to upgrade the Organic Gold Facility and to provide information on the status of planning and when the Waste Licence application would be submitted to the EPA. This part of the consultation took place shortly after the EIS was previously submitted, as agreed with Meath County Council.

On display on the day were detailed plans of the proposed development, the site layout map and site location map. Details of proposed mitigation measures for Odour, Dust and Bioaerosols were also displayed. A flow diagram of the composting process and the EPA waste licence application procedure were also available for residents' perusal. A brochure outlining future proposals for the development were available to all attendees along with a copy of the non-technical summary of the EIS. An overhead projector was also used to show a video, which demonstrated the Wastecology composting technology in operation at a site in England. RPS-MCOS staff and John Finnegan of Organic Gold were on hand to answer questions as well as provide information about the development.



Display Board Erected at the Public Information day

A public notice was placed in the Meath Chronicle advertising the information day. A notice was also posted to residents in Wilkinstown village. (A copy of the public notice placed in the newspaper and a list of residents to whom this notice was posted to can be found attached in **Appendix A**).

The information day opened at 11am and finished up at 4.50pm. At 11.20am twenty residents arrived together at the centre. RPS-MCOS tried to explain the future proposals for the site both vocally and by using displays board and the videotape to the residents. However, there was a lot of resentment and anger expressed by the residents towards Organic Gold and a lot of grievances were aired in relation to the operation of the site in the past, making it difficult to explain the findings of the EIS and to discuss the future proposals for the site.

The main concerns raised from this group of residents were as follows:

- Odour emissions at the site and the impact it has on residents in the area;
- Litter being carried by crows to neighbours gardens;
- Planning issues. The residents state that the site has no planning permission;

- Residents repeatedly raised concerns that Organic Gold are composting raw sewage and animal carcasses which is the cause of odour emissions at the site. They reported that odour problems only began at the site when Organic Gold began composting this material - it was explained to residents that there has never been raw sewage accepted at the site and this would never be acceptable in the future.
- Regulation and monitoring of the site – who was going to be in charge of this;
- Potential health risks in relation to bioaerosols;
- Price of property in the area.

All the above issues were discussed and information provided to answer the queries as far as possible. However, it was very difficult to deliver complete answers to a group of twenty people who were quite incensed. The residents were not interested in the future proposals for the site but at the way the site has been operated in the past. This group of twenty people left the centre at 11.50am after calling a public meeting to be held between them for the following week.

Following on from this, there was a steady flow of visitors to the centre. Ten more residents were shown the proposals for the future upgrading of the site. Mr. John Finnegan and RPS-MCOS talked directly to them. All of these visitors were interested in the site and spent a significant time amount of time asking questions and examining the display boards. The main issues raised were containment of odour on-site, prevention of water pollution in the area and future management, monitoring and regulation of the site. All of these issues were addressed individually and the measures needed to mitigate against potential nuisances during the future operation of the site explained.

John Finnegan explained to each individual that there would be an open door policy where residents could come on site and see what activities are being undertaken by Organic Gold at their own convenience. He also explained that he would ensure better means of communication between residents and Organic Gold by setting up a complaints register at the site in which all queries and/or complaints would be answered by Organic Gold. This idea was well received by the residents. Due to adverse weather conditions nobody expressed interest in visiting the site.

Overall, the residents who visited the centre in the latter half of the consultation were better informed of the future proposals for the site and Organic Gold's commitment to upgrade the site and prevent future impacts on residents in the area. There were some requests for further information, which will be supplied to these residents accordingly.

Following on from the Public Consultation Organic Gold have Agreed to Immediately:

- Operate an open door policy at the site;
- Set up a complaints register, in which all complaints will be addressed by Organic Gold;
- Improve communication with local residents by meeting with community representatives;

RPS-MCOS was contacted by a community representative, namely Emer Davis of Wilkinstown, Navan on the 14th of February 2005, who requested a copy of the EIS. RPS-MCOS informed her that the EIS would be sent in electronic format once the planning application was resubmitted. In the interim, detailed information was supplied to the community representative in advance of the scheduled public meeting, which gave details of the proposed future development and proposed mitigation measures for nuisances at the site. The most recently published findings on the potential effects of Bioaerosols on communities living in the vicinity of composting plants were also sent to the community representative. Refer to **Appendix B** for copies of the aforementioned correspondence.

1.3 SUMMARY

Public consultation will continue to be a priority of Organic Gold in order to improve communications between the company and the local residents. Organic Gold will also inform residents of plans to upgrade the facility and to mitigate against potential nuisances arising at the site.

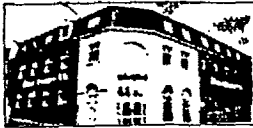
APPENDIX A

Public Consultation Newspaper Advertisement

Public Consultation Meeting Notice

Mailing List for Public Consultation

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Signed
Larry Whelan, Senior Executive Officer,
Planning Department, Meath County Council.

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Business Owners

Do you have issues with:

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- Time or employees

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Feb 10th, 8-10am or
Free Business Healthcheck

Contact: David Quirke
086-8590219

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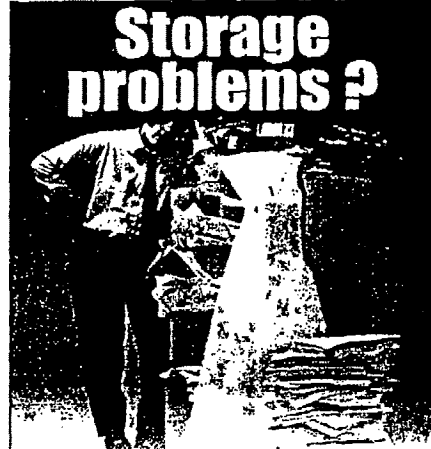
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ESTATE**

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Meath County Council &
The Town Councils of Navan, Trim & Kells

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11. Angela Lynch Wilkinstown, Navan
12. Mary Reilly, Clyinch, Wilkinstown, Navan.
13. Eileen McManus, Wilkinstown, Navan
14. Cyril Meehen, Wilkinstown, Navan
15. Noel Fleming, Wilkinstown, Navan
16. Margaret Mackey, Wilkinstown, Navan
17. Jacinta McManus, Bride Cottage, Wilkinstown, Navan
18. Don McAuey, Wilkinstown, Navan
19. James Mcteer, Glackenstown, Wilkinstown, Navan
20. John Fleming, Clyinch, Wilkinstown, Navan
21. Eamon Duff, Glackenstown, Wilkinstown, Navan
22. Rose Monaghan, Glackenstown, Wilkinstown, Navan
23. Niall Monaghan, Glackenstown, Wilkinstown, Navan
24. Gretta Crahan, Wilkinstown, Navan
25. Patrick McManus Wilkinstown, Navan
26. Cyril Cluskey Wilkinstown, Navan
27. Jude Duff, Glackenstown, Wilkinstown, Navan
28. Cáit Mackey, Wilkinstown, Navan
29. Cáit Driver Wilkinstown, Navan
30. Tommy Driver, Wilkinstown, Navan
31. Martin Mallon, Wilkinstown, Navan

APPENDIX B

Correspondence with Community Representative

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Lorraine Herity

From: Lorraine Herity
Sent: 14 February 2005 16:43
To: 'Emer Davis'
Subject: FW: Information on organic Gold



Public consultation
informatio...



Public Consultation
Leaflet fo...



Dust and Bioaerosol
mitigation...



Odour mitigation
measures.PDF

Emer,

I have attached a direct link below to the Cambridgeshire site. The company that run it is Donarbon limited. There really isn't much information there at all. A similar facility is planned in Newtonards, Co. Down in the middle of the town. The councillors from the town went over to the Cambridgeshire site to inspect it before granting planning permission to the applicant in Newtonards. Actually some representatives from the environment and planning section are also planning on visiting the Cambridgeshire site.

I have attached some information on the proposed future developments and how Organic Gold intend on upgrading the facility. Also attached are some mitigation measures which will be introduced at the site to minimise odour, dust and bioaerosols. This information was on display at the information day last Friday. I will follow this email on with some information on bioaerosols which I know is of concern to yourself and Alish Boland amongst others.

If you have any further queries please feel free to contact me.

Best regards,

Lorraine

<http://www.dickersongroup.co.uk/Donarbon/composting.html>

Link to the home page:

<http://www.dickersongroup.co.uk/>

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Lorraine Herity

From: Lorraine Herity
Sent: 14 February 2005 17:18
To: 'emerdavis@msn.com'
Subject: Bioaerosols at composting plants

Emer,

In response to your queries (and Elish Boland and other residents) to the issue of Bioaerosols at composting plant, I have attached two of the latest reports on bioaerosols from the Health & Safety Executive in the UK, 2003 and from Cre the Composting Association of Ireland, 2004 for your information. These are attached at the bottom of the email. Please note the following important excerpts:

Aspergillus fumigatus is particularly important in the composting process due to its capacity to break down waste. When windrows are turned it can become aerosolised and is then termed a bioaerosol. *Aspergillus fumigatus* is an allergenic fungus and is an opportunistic pathogen which can cause aspergillosis in **severely immunocompromised subjects**. Two case studies have been reported worldwide which are associated with composting. This is in light of

It is important to consider that ***Aspergillus fumigatus* occurs normally in the environment** and that the spores of the fungus are continuously inhaled by humans but rarely have an adverse effect as they are eliminated by the immune response. It has been estimated that all humans will inhale at least several hundred *Aspergillus fumigatus* spores per day (Goodley et al, 1994; Latge, 1999) without harm - page 16 of the HSE report.

It has been reported that **bioaerosols emissions from composting plants is in fact lower than certain agricultural activities** such as hay making, and the harvesting and storage of grain. Bioaerosols are also greater at sawmills and wood manufacturing industries.

Levels found in composting facilities in other countries range from 102 - 105 CFU/m³.

Levels recorded in other industries:

103- 109 CFU/m³ - harvesting and storage of grain
104 - 108 CFU/m³ - sawmill

"While the risks to vulnerable individuals such as immunocompromised is greater from *Aspergillus fumigatus* there is **no evidence that the risk attributable to living near a composting site is greater than exist already anyway**. Dr M. Hogan, Medical Expert-Bord Pleanála OH – Oct 04" presented at a Cre seminar on Bioaerosols by MR. Tom Mc Loughlin of the Environmental Protection Agency, February 2 2005. This was in reference to the case made by the residents at Saint Anne's Park that bioaerosols was affecting a young child suffering from Cancer.

"General population not at risk. **Composting facility does not pose any unique endangerment to the health and welfare of the general public**" - presentation by Dr.Munoo Prasad of Bord na Mona, presented at a Cre seminar on Bioaerosols, February 2 2005, also co-author of Cre Report on Bioaerosols (Attached).

If you have any queries again please contact me.

Regards,

Lorraine



Cré_Bioaerosol_Final.pdf



UK Bioaerosols report.pdf

APPENDIX A – Drawings

- Site Location Map – MDE0202DG001A01
- Site Layout Map – MDE0202DG002A04
- Site Services Map – MDE0202DG003A02
- Ordnance Survey Discovery Series map Number 42 (1:50,000)

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Initials		

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