

**Blanchard Enterprises
Sheephouse Farm Pig Unit**

**Dust and Bioaerosols
Management Plan**

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Prepared By:

**Harry Edwards & Mat Beale
The Farm Consultancy Group
WhiteAvon Consultancy
Whitelands Cottage
Days Lane
Kington Langley
Chippenham
Wiltshire
SN15 5PD**



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The **Farm Consultancy** Group

1.0 Dust Management Plan

1.1 Introduction

This Dust and Bioaerosol Management Plan (DMP) will assist Blanchard Enterprises in effectively managing potential dust releases associated with the operations at Southview Farm.

1.2 Status of the DMP

This DMP is a “live” document, the monitoring procedures, responsibilities, and compliance actions and should be updated as appropriate.

2.0 Site Background

Blanchard Enterprises have been operating the pig unit for many years and are continuing the redevelopment of the unit. There is no record of any complaint due to dust emissions from the pig unit.

2.1 Facility Overview

Below is a summary of the proposed changes.

1. The site is to operate as a rearing and finishing site. There will be no sows on site. Pig numbers will be:
 - a. Production Pig Places – 6000
 - b. Below 30kg pig places – 3600
2. Existing buildings are to be converted to production pig places; no new buildings are to be installed.
3. Update site plan with proposed layout and drainage
4. Add clean water emission point from roof water
5. Decommission the two finishing sheds below the muck middens and continue to use as straw storage as identified in the new site layout plan.

All pig buildings are operated to BAT, solid straw system with natural ventilation, there is no change to housing design or ventilation.

This will move the number of finishing places for pigs over 30kg to 6000. However, the farm operates a ‘batch’ system whereby one building is always empty for cleaning, therefore the ‘operating capacity’ day to day is 4,800 pigs over 30kg. There are also 3600 places for weaned pigs under 30kg.

Site Grid Ref: SU 39305 96220

Pig buildings. There are a total of 6 pig buildings, 5 of which are designed for pig finishing (labelled A-E on the site plan). The weaner/grower house is to the top of the site and labelled as such on the site plan. Buildings A and B are to be converted from original sow housing. Weaned pigs are brought onto site from own outdoor breeding herd.

All manure is collected as solid manure. Solid manure is stored on an impermeable concrete midden which is bunded with a drainage system to direct the small amount of liquids the existing covered slurry lagoon. There is no change to slurry storage capacity based on this proposal, the site continues to have 6 months slurry storage capacity. The lagoon cover is a crust.



Low energy lighting is used throughout and there are now no heat lamps used. All buildings are individually metered. Feed is dry feed from home produced crop mixed in a mobile mill and mixer which can be on site. Feed is delivered ad lib via an automated enclosed system direct from feed bins to minimise need for vehicle movements and odour/dust. All diets are formulated to match the growth stage. Drinkers used are modern nipple type to reduce waste. Feed and water use is monitored via an App to reduce leakage and waste.

Carcasses are incinerated on site, using a low-capacity incinerator approved by the APHA. The Farm also has used licenced fallen stock collection and deadstock bins and locked and covered when in use.

2.2 Potential Dust Sensitive Receptors

For the purpose of this Dust Management Plan below are described the receptors considered.

Receptor Description	Direction	Distance from Boundary	Grid Ref
Sheephouse Farm Cottage 1	South	10 m	SU 39321 96041
Sheephouse Farm Cottage 2	South	10 m	SU 39301 96033
Sheephouse Farm Cottage 3	South	10 m	SU 39294 96029

2.3 Potential Dust Sources and Activities

Measures to control dust have been considered in the context of the units' setting and the operations that are undertaken. Identified operations with the potential to produce and release dust at the facility are described below. This DMP has been developed to ensure that potential dust, from each part of the process, is minimised through effective management to an acceptable level.

Table 1. A summary of at source control methods for particulate reduction on farm

Source of dust	Method	How the reduction is achieved
Pig Feed	Dust from silos	Feed delivery systems are sealed to minimize atmospheric dust and cyclones are fitted to the bins to eradicate dust on delivery
	Storage of feed	All feed is in covered bins and location is furthest point from nearest receptors
	Feed spill control	Collection of any feed spill is undertaken as soon as



		possible
	Form of feed	Feed is supplied only from UFAS accredited feed mills, so that only approved raw materials are used. Feed specifications are prepared by the compounder's nutrition specialist.
	Feeding method	Feed is automatically controlled to ensure there is no over feeding and all pipework is checked regularly to ensure all is in good working order
Pig Bedding	Type of bedding	Clean straw used and bedding down during working hours
Pig Ventilation	Increasing ventilation	All housing is natural ventilation and therefore any dust omitted from the pig housing will remain close by.
Pig House cleaning	Good Management	Buildings washed out between batches with disinfectant.

Table 2. A Summary of control at exhaust methods of particulate abatement on farm

Dust Control	Method	How is reduction achieved
	None	Unless a complaint is received no further measures are required.

2.3.1 Liaison with Neighbours

If an action is being considered that may cause temporary dust, outside of the normal operational procedures, then before such action is taken the operations manager will be informed. Neighbours who may be affected will be contacted to advise them of the operation being undertaken, and that any increase in dust will be of a temporary nature.

3.1 Reporting

Emissions of dust will not be those which shall cause pollution. Any complaints received will be investigated (as described above) and recorded in accordance with Blanchard Enterprises current procedures. This includes recording the following:

- Nature of the incident.
- Date of occurrence/s.
- Results of the investigation.
- Details of responses/ action plans implemented; and
- The event will be marked within the site's incident log.

The report will be made available to the Environment

Agency on request.



APPENDIX 1

Dust Report Form

Complaint Form

Actions and Outcome form



Dust Report Form

Staff Member:	
Time & Date:	
Location:	
Temperature:	
Wind Strength	
Wind Direction	
Intensity	
Location Sensitivity (See below)	0 1 2 3 4 5
Is the source evident?	
Comments and observations	
Corrective actions taken	
Was the dust eliminated	

0	Not detectable
1	Remote (No housing, commercial/industrial premises or public area within 500m)
2	Low Sensitivity (No housing etc. within 100m of affected area)
3	Moderate sensitivity (Housing etc. within 100m of affected area)
4	High sensitivity (Housing etc. within area affected by dust)
5	Extra sensitive (complaints arising from residents within area affected by dust)



Complaint - Actions and Outcome Record Sheet

Complainant

Record name, or 'withheld' if requested but not given by complainant, or 'not supplied' if it was not requested by the person receiving the complaint.

Name of person	
Organisation name	
Address	
Telephone	
Email address	

Complaint about and description

Odour	
Dust	
Noise	
Other	

Nature and record of complaint



Product / Service / Action / Document / Other (describe):

Person who used / expected it:

Date used /expected:

Nature of deficiency:



Complaint Number.....

Complaint handled by

Name of person	
Role	
Received by	Letter / email / telephone / meeting
Date received	

Action and issues being investigated

[Record details of any other organization / external person involved, if applicable. Add more action rows if necessary.]

Action 1 (Description)	
Action by (name of person)	
Date by	
Action 2 (Description)	
Action by (name of person)	
Date by	
Action 3 (Description)	
Action by (name of person)	
Date by	

Outcome

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Communicated to

Date complainant notified	
Date any other parties notified	
Names of any other relevant parties (for each, state person and organization)	

Keep a copy of this record and file it with any other documents associated with the complaint, actions taken and the outcome.

