

Odour Management Plan

The following plan has been prepared as part of the EPR permit application.

The following tables highlight the likely sources of odour arising from poultry broiler production at Lower Barn Poultry Unit.

Actions and measures are listed that will prevent where possible or minimise odour emissions at Lower Barn Poultry Unit.

Site plan shows all material storage areas and potential odour emission sources.

Plan to be reviewed every year from permit issue date, prior to any major changes to operations (to ensure effectiveness) or following any complaint, any changes to OMP or other management plans to be documented dated and signed and Area Officer notified.

Actions and preventative measures in OMP referenced from Odour Assessment Document and Fugitive Emissions Assessment in line with the H1 Risk Assessment, to be implemented in conjunction with the following key documents;

Emergency Plan

Technical Standards

Routine Maintenance Schedule

Key responsibility for the OMP and the referenced plans are the Operator or deputies who have been briefed on the requirements.

Example Odour Complaint form attached.

The table below lists all sensitive receptors with 400m.

Receptor/Location	Description	Distance	Orientation	National Grid Reference
Dwelling off Broadway lane	Residential	303m	West	601486,280770
Dwelling off Broadway lane	Residential	306m	West	601478,280779
Dwelling off Broadway lane	Residential	314m	West	601465,280813
Dwelling off Broadway lane	Residential	334m	West	601448,280809
Dwelling off Broadway lane	Residential	353m	West	601424,280800
Dwelling off Broadway lane	Residential	341m	West	601449,280765
Commercial, off smallworth lane IP22 2SP	Commercial	399m	North West	601317,281300
Dwelling off smallworth lane	Residential	399m	North West	601336,281348
Dwelling backing onto smallworth lane on Thetford road	Residential	399m	North West	601352,281384
Dwelling off clay hall lane	Residential	396m	South East	602216,280552
Commercial farm off Clay Hill lane	Farm Building	412m	South	601918,280485

Commercial/ Farm off Clay Hill Lane	Farm building	385m	South	601756,280483
Dwelling off Clay hill lane	Residential	291m	South	601797,280560
Dwelling off Clay Hill Lane	Residential	284m	South	601765,280567
Dwelling off Clay Hill Lane	Residential	250m	South	601780,280598
Dwelling off Clay Hill Lane	Residential	255m	South	601736,280602
Dwelling off Clay Hill Lane	Residential	251m	South	601727,280610

Odour Related Issue	Potential Risks and Problems	Actions taken to minimise odour and odour risks at Lower Barn Poultry Unit	Completion date
Manufacture and selection of feed	Milling and mixing of compound feeds. The use of poor quality and odorous ingredients. Feeds which are 'unbalanced' in nutrients, leading to increased excretion and litter moisture and emissions of ammonia and other odorous compounds to air.	No on-site milling and mixing. Feed specifications are prepared by the feed compounder's nutrition specialist. Feed is supplied only from UKASTA accredited feed mills, so that only approved raw materials are used. Protein is reduced in accordance with SGN EPR6.09 'How to comply with your environmental permit for intensive farming' 'How to comply with your environmental permit for intensive farming'.	In place
Feed delivery and storage	Spillage of feed during delivery and storage. Creation of dust during feed delivery.	Feed delivery systems are sealed to minimise atmospheric dust. Any spillage of feed around the bin is immediately swept up. The condition of feed bins is checked frequently so that any damage or leaks can be identified. Feed deliveries are monitored to avoid dust and spills.	In place

Ventilation and heating Systems/Dust	Inadequate air movement in the house, leading to high humidity and wet litter Inadequate system design, causing poor dispersal of odours. Extraction fans located close to sensitive receptors. Dust	Use of roof/side extraction fans to aid dispersion, checked prior to cycle commencement by qualified electrician who will provide 24hr breakdown cover The ventilation and heating system is regularly adjusted to match the age and requirements of the flock. The ventilation system is designed to efficiently remove moisture from the house. Indirect heating system giving lower humidity levels. Humidity recorded daily and maintained in the range of 55 – 65% keeping a balance of dry litter and avoiding dust production. Stock inspections carried out by trained staff to avoid panicking birds creating dust.	In place
Air Scrubbers Houses 5-8.	Odour Levels	Reduced odour levels with the continuous use of chemical air scrubbing	In place
Litter management	Odours arising from wet litter (see above).	Controls on feed and ventilation (see above) help to maintain litter quality. Additional controls include:- Use of nipple drinkers with drip cups to minimise spillage. Daily checks of drinker height and pressures to avoid capping. Insulated walls and ceilings to prevent condensation. Concrete floors to prevent ingress of water. Stocking levels at optimum to prevent overcrowding. Use of veterinarian bespoke health plan.	In place

Carcase disposal	Inadequate storage of carcasses on site	Carcasses placed into plastic sealed bags, stored in sealed, shaded and vermin proof containers away from sensitive receptors. Frequent (3/5 times per week) Collection of carcasses.	In place
House clean out	Creation of dust associated with litter removal from houses Use of odorous products during cleaning.	Litter carefully placed into trailers positioned close to doors. Trailers sheeted before leaving fill position. Only DEFRA approved and suitable products used. Chemical containers triple washed at point of use. Wash water tank levels monitored during washing and emptied as required to prevent overflow. Litter out carried out within 24 hours following destocking per house (72 hours total for site)	In place In place
Used litter	Storage of used litter on site. Transport of litter and land spreading.	No storage on site at any time. All trailers sheeted before leaving fill position. Avoidance of double handling. Litter sold.	In place
Washing operations including vehicles	Loss of dirty water to land or watercourse	Use of specialist contractors for washing operations. Bespoke terminal hygiene program followed, detailing quantities of water and chemical dilution rates. Key staff monitoring washing operations ensuring effective drainage to dirty water tanks. Dirty water tanks monitored during wash down to maintain freeboard. Washing operations completed within three days. Vehicle washing at designated wash point. All sediment traps and drains cleaned both before and after washing operations	In place
Fugitive emissions	Leaks to doors, bin pipes, feed bins, fuel and chemical storage	Checks to feed storage and fill pipes as per routine maintenance schedule. Fuel oil in approved bunded storage tank.	In place

Dirty water management	Standing dirty water during the production cycle or at clean out. Application of dirty water to land.	Working areas around houses are concreted and kept clean during production cycle. At clean out dirty water from houses together with lightly contaminated yard wash is directed to the underground storage tanks, before being removed off site by third party.	In place
Abnormal operations	Water leak/pipe failure Bird health/sickness	Water consumption monitored daily ensuring early detection, wet area blanket covered with top up bedding material to prevent increased odour. Veterinarian contacted (24hour cover) Litter covered with fresh top up bedding to minimise increase in odour until bird health recovered. Abnormal events documented, dated and signed, appropriate plans reviewed and updated to prevent reoccurrence ie. Routine maintenance schedule, Technical standards	In place
Waste production/storage	Odour from production or storage areas	No storage or production of odorous waste on site. Waste management plan in force detailing types and quantities produced along with disposal routes. Records kept on site.	In place
Materials/storage	Potential odour source	Feed delivered into sealed vermin proof silos. Sealed delivery system into poultry houses with no milling or mixing on site. Remaining feed at end of cycle stored in sealed silo and used on subsequent cycle. 3 month shelf life of feed negating the need for removal. Chemicals in secure bunded shed free from frost and unauthorised entry together with any veterinarian products/medicine	In place

Complaints Procedure

In the event of a substantiated odour complaint the cause would be investigated, and actions taken listed in the odour/contingency plans to cease the release. Area officer would be notified immediately, a review of the OMP conducted at the earliest opportunity with any changes communicated to Area officer for approval. A complaints report would be filled out and retained on site.

Odour Contingency						
Source	Potential Cause	Trigger Factor with immediate action	Timed Action	Mitigation Measures to be implemented and remain operative until cessation trigger verified	Additional Mitigation	Cessation Trigger
Feed delivery and storage	Pipe or bin failure causing leak	Daily inspection	24 hours	Repair to pipe work or feed bin with immediate effect, use other bins, spills cleaned up immediately. Integrity of pipe work and bin checking frequency reviewed and updated in routine maintenance and inspection document, with changes recorded and dated.	Bin/pipework replaced	Visual inspection
Carcase storage and disposal	Container failure/damage	Daily Inspection	24 hours	Carcases removed from damaged container into	N/A	Visual Inspection

				additional container, damaged container replaced/repared immediately.	Alternative collection implemented	
Variations in stocking density/bird growth	Rapid bird growth or poor growth due to illness.	Deviation in predicted growth	24 hours	Bird growth monitored Daily Ventilation and heating controls advanced to account for additional live-weight within house. Veterinarian advice sought immediately for bird illness with additional bedding added to prevent/minimise odour release. Document and record abnormalities. Ensure stocking density complies with BAT standards and bird permit places.	Immediate veterinarian advice sought	Growth rates normal
Air scrubbing systems	Circulation pump Failure	Increased odour	2 hours	Installers providing 24/7 breakdown cover	Spare pump carried on site	Systems fully operational. Repairs effected and documented

Air scrubbing systems	PH Level out of parameters	Increased odour	1 hour	Sensor replaced Operator	Spare sensors carried on site	Systems fully operational. Repairs effected and documented
Air scrubbing systems	Conductivity out of parameters	Increased odour	1 hour	Sensor replaced Operator	Spare sensors carried on site	Systems fully operational. Repairs effected and documented
Air scrubbing systems	Clean water level	Increased odour	1 hour	Check inlet Operator		Systems fully operational. Repairs effected and documented
Air scrubbing systems	Dirty water level	Increased odour	1 hour	Check drain Operator		Systems fully operational. Repairs effected and documented
Air scrubbing systems	Pump Kw	Increased odour	2 hours	Installers providing 24/7 breakdown cover	Spare pump carried on site	Systems fully operational. Repairs effected and documented

Air scrubbing systems	Package pressure differential	Increased odour	3 hours	Installers providing 24/7 breakdown cover		Systems fully operational. Repairs effected and documented
Air scrubbing systems	Ventilation fan failure	Increased odour	2 hours	Installers providing 24/7 breakdown cover/electrician providing 24/7 breakdown cover	Spare fan carried on site	Systems fully operational. Repairs effected and documented
Ventilation System	Fan/system failure	System fully alarmed	2 hours	Alternative ventilation fan used as houses have spare capacity installed, electrician call out	N/A	Repairs effected and documented
Drinker systems	Leaky systems/pipe failure	Deviation in expected water consumption	2 hours	Any leaks isolated and repaired immediately. Wet areas covered with additional bedding to minimise odour. Arrange system integrity testing at cycle end, findings to be documented and recorded, pipe work/system parts to be replaced as per	N/A	Normal consumption

				report.		
Bird depletion	Fugitive odour release	OMP monitoring		Minimum ventilation rate to prevent fugitive release of odour, review OMP with any changes documented and recorded and submitted to Environment Agency Area Officer for approval.	N/A	OMP monitoring recording reduced low levels
Litter Removal	Fugitive odour release from poultry houses	Raised odour levels during OMP monitoring		Minimum ventilation rate to prevent fugitive release of odour, review OMP with any changes documented and recorded and submitted to Environment Agency Area Officer for approval.	Review of littering out procedures	OMP monitoring levels returned to normal
Washing operations/dirty water	Odour release from drainage/storage	Raised odour levels during OMP monitoring		Arrange drainage integrity testing and drain cleaning, record and document findings. Dirty water tanks filled with clean	Ventilation rates decreased	OMP monitoring levels normal

	Delay in dirty water removal	Washing procedure monitoring	4 hours	water and agitated prior to removal to remove any possible sediment/stagnation. Washing operations suspended, agreement with neighbouring farms for dirty water removal	Licensed waste disposal contractor used to prevent extended storage requirement Specialist drainage contractor called out	Normal washing resumed after visual inspection
	Blocked drains		1 hour	Blockage cleared		
Litter/manure	Wet litter	Raised odour levels during OMP monitoring	2 hours	Additional bedding applied to maintain dry friable litter. Initiate olfactory checks to ensure effectiveness.	Additional ventilation implemented to dry litter	OMP monitoring levels normal

Monitoring Procedure

Procedure

Monitoring is carried out weekly, by means of “sniff testing” at the monitoring points by persons not involved directly with the operations at the installation.

Monitoring will be carried out twice weekly at the installation boundary

All records will be securely stored and held on site for inspection.

Monitoring will be by means of self-assessed “Sniff Testing” by person/persons not normally working on the poultry installation.

Severity Scoring

0 – No Odour Detected

1 – Low Intermittent Odour Detected

2 – Low Continuous Odour Detected

3 – Medium Odour Detected

4 – High Odour Detected

5 – Very High Odour Detected

In the event of odour scores of 3, 4 or 5 being recorded the site staff will be alerted to implement contingency measures. Retesting at the installation boundary will be conducted following any actions implemented to ensure the effectiveness of recorded actions implemented.

Monitoring procedure/frequency to be reviewed annually or in the event of a complaint.

OMP to be reviewed annually or following a complaint, or any changes to operations.

Key Responsibilities

Task	Staff position responsible
Olfactory checks	Persons not involved in the poultry production
Overseeing/monitoring feed deliveries	Manager/Assistant
Sweeping feed spillages	Lorry driver/ Assistant
Feed bin and pipe integrity checks	Manager/Assistant
Adjusting ventilation	Manager/Assistant
Stock inspections	Manager/Assistant
Daily checks on drinker heights and pressures	Manager/Assistant
Air scrubber operation	Manager/Assistant
Carcase disposal	Manager/Assistant
Integrity checks for carcase containers	Manager/Assistant
Monitoring wash tank levels and organising tank emptying	Manager/Assistant
Cleaning of sediment traps/drains	Manager/Assistant
Monitoring of water consumption for leak detection	Manager/Assistant
Documenting/reviewing abnormal events	Manager
Reviewing annual plans	Manager
Complaints Log	Manager

Odour Complaint Form

Installation Name	Date Recorded	Reference Number
Name and Address of caller:		

Tel. No. of caller	
Location of caller in relation to Installation	
Time and Date of complaint	
Date, Time and duration of Offending odour	
Callers description of odour	
Has the caller any other Comments about the odour?	
Weather conditions	
Wind strength and direction	

Any previous complaints Relating to this odour?	
Any other relevant information	
Potential odour sources that could give rise to the complaint	
Operating conditions at the time offending odour occurred	
Follow up Date and time caller contacted	
Action taken	
Amendment requirement to Odour Management Plan	

Form completed by		Signed	
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