



ODOUR MANAGEMENT PLAN

DEVELOPMENT: **IPPC PERMIT VARIATION APPLICATION FOR
THE HOUSING OF 64,000 FREE RANGE BIRDS**

LOCATION: **Rhosddu Farm
Llansantffraid Ym Mechain
Welshpool
Powys
SY22 6TH**

CLIENT: **Mr Martyn Langford**

**Roger Parry & Partners LLP
Mercian House, 9 Darwin Court, Oxon Business Park, Shrewsbury, SY3 5AL
Tel: 01691 655334
Email: richard@rogerparry.net**

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The following tables detail the likely sources of Odour from the Poultry Installation at Rhosddu Farm Poultry Unit. Actions and measures that will be taken to prevent where possible or minimise odour emissions at Rhosddu Farm. The site plan submitted as part of the EPR permit application confirms all material storage areas and potential odour emission sources. The plan is to be reviewed every year from the permit issue date, prior to any changes (major) being made to any operations, or following a complaint, or changes to any management plan the document is to be dated and signed and the area permitting officer notified. A total Of 6 locations where people may be present were identified within a 500 metre radius of the site. The locations are detailed below.

A 500 metre zone around intensive livestock developments is the generally accepted threshold for nuisance complaints relating to airborne emissions, the Health Protection Agency position statement relating to Intensive Farming states that the intensive livestock farming extensions subject to regulation under the Pollution Prevention Control Regulation (now amended by the Environmental Permitting Regulations) may need to produce an odour management and also noise management plan if there are local communities within 400 metres of the site boundary. This suggests that beyond this zone nuisance from noise and odour is not an issue. To present the worst-case scenario the sensitive receptors within 500 metres of the Rhosddu Farm Poultry Unit are listed below;

| NAME | EASTING | NORTHING | Distance from unit to residential curtilage (m) |
|--------------------|----------------|-----------------|--|
| Prenrhwnin | 320640 | 316861 | 357 |
| Prenafal | 320634 | 316804 | 383 |
| Plas Bach Issa | 320324 | 316665 | 490 |
| New Buildings Farm | 320740 | 317577 | 388 |
| The Hollies | 320714 | 317630 | 421 |
| Penllyn | 320902 | 316954 | 499 |

| ODOUR RELATED ISSUES | POTENTIAL RISKS | ACTIONS TAKEN TO REDUCE THE ODOUR AND ODOUR RISKS ON FARM | COMPLETION DATE |
|---------------------------------------|------------------------|--|------------------------|
| Poultry – Free Range – Egg Production | Odour Levels | Twice daily checks coinciding with bird inspections, normally between 07:00-10:00 hours and 16:00-19:00 hours. Any abnormalities to be recorded and investigated. | As and when required |

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| | | Please refer to Contingency Plan and Routine Maintenance Schedule | |
| Manufacture and selection of Feed | <p>Milling and mixing of compound feeds.</p> <p>Use of poor quality and odorous ingredients.</p> <p>Feeds which are unbalanced leading to increased excretion of ammonia.</p> | <p>Any on site milling only occurs in a sealed building.</p> <p>Feed specifications are prepared by a Nutrition Specialist.</p> <p>Feed is supplied only from UKASTA accredited feed mills, so that only approved raw materials are used.</p> <p>Protein is reduced in accordance with SGN EPR6.09 'How to comply with your environmental permit for intensive farming'.</p> | In place |
| Feed Delivery and Storage | <p>Spillage of feed during delivery and storage.</p> <p>Creation of dust during feed delivery.</p> | <p>Feed delivery systems are sealed to minimise atmospheric dust.</p> <p>Any spillage of feed around the bin is immediately swept up.</p> <p>The condition of the feed bins is regularly checked and routine maintenance</p> | In place |

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| | | <p>undertaken if required.</p> <p>Feed deliveries are monitored to avoid dust and spills.</p> <p>Please see Routine Inspection</p> | |
| Ventilation and Dust | <p>Inadequate air movement in the house, leading to high humidity and wet litter.</p> <p>Inadequate system design, causing poor dispersal of odours.</p> <p>Extraction fans located close to sensitive receptors</p> <p>Dust</p> | <p>Use of high velocity roof extraction fans in all houses to aid dispersion, checked prior to the cycle commencement by a qualified electrician who will provide 24 hour breakdown cover.</p> <p>The ventilation system is regularly checked and adjusted to match the age and requirements of the flock.</p> <p>The ventilation system is designed to efficiently remove moisture from the houses.</p> <p>Humidity recorded daily and maintained in the range of 55-65% keeping a balance of dry litter and avoiding dust production.</p> | In Place |

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| | | <p>Stock inspections carried out only by trained staff to avoid panicking birds therefore creating dust.</p> <p>Dust levels if present controlled during clean out operations.</p> <p>Please see Routine Maintenance Schedules.</p> | |
| Litter Management | Odours arising from wet litter | <p>Controls on feed and ventilation (see above) help to maintain litter quality.</p> <p>Additional controls include;</p> <p>Use of nipple drinkers with drip cups to minimise spillage.</p> <p>Daily checks of drinker height and pressures to avoid capping.</p> <p>Insulated walls and ceilings to prevent condensation.</p> <p>Concrete falls to prevent ingress of water.</p> <p>Stocking levels at optimum to prevent overcrowding.</p> | In Place |

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| | | Use of veterinarian bespoke health plan. | |
| Carcase Disposal | Inadequate storage of carcasses on site. | <p>Carcasses placed into plastic sealed bags, store in sealed, shaded and vermin proof containers away from sensitive receptors.</p> <p>Frequent collection of carcasses.</p> <p>Daily levels of mortalities recorded with abnormalities investigated.</p> | In Place |
| House Clean Out | <p>Creation of dust associated with litter removal from houses.</p> <p>Use of odorous products during cleaning.</p> | <p>Litter carefully placed into trailers.</p> <p>Trailers sheeted before leaving fill position.</p> <p>Only DEFRA approved and suitable products used. Chemicals containers triple washed at point of use.</p> <p>Wash water sump levels monitored during washing and emptied as required to prevent overfill.</p> | In Place |
| Used Litter | Storage of used litter on site. | No storage on site at any time, storage in sealed manure store. | In Place |

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| | <p>Transport of litter and landspreading.</p> | <p>Removal of manure at end of each flock cycle.</p> <p>All trailers sheeted before leaving fill position.</p> <p>Avoidance of double handling.</p> <p>Litter used on operators controlled land and sold to third parties.</p> | |
| <p>Washing operations including vehicles</p> | <p>Loss of dirty water to land or watercourse</p> | <p>Use of specialist contractors for washing operations.</p> <p>Bespoke terminal hygiene program followed, detailing quantities of water and chemical dilution rates.</p> <p>Key staff monitoring washing operations ensuring effective drainage to dirty water tanks.</p> <p>Dirty water tanks monitored during wash down to maintain freeboard.</p> <p>Vehicle washing at designated wash point.</p> <p>All sediment traps and drained cleaned both before and after</p> | <p>In Place</p> |

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| | | washing operations. | |
| Fugitive Emissions | Leaks to doors, bin pipes, feed bins, fuel and chemical storage. | <p>Checks to feed storage and fuel pipes as per Routine Maintenance Schedule.</p> <p>Fuel oil in approved bunded storage tanks.</p> <p>Chemicals – only small amounts of footdip disinfectant held on site in secondary containment.</p> | In Place |
| Dirty Water Management | <p>Standing dirty water during the production cycle or at clean out.</p> <p>Application of dirty water to land.</p> | <p>Working areas around houses are concreted and kept cleaning during production cycle.</p> <p>At clean out dirty water from houses together with lightly contaminated yard wash is directed to the storage tanks before removed off site and spread to land.</p> | In Place |
| Abnormal Operations | <p>Water leak/pipe failure</p> <p>Bird Health/Sickness</p> | <p>Water consumption monitored daily ensuring early detection, wet area – blanket covered with top up bedding material to prevent increased odour.</p> | In Place |

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| | | <p>Veterinarian contacted (24 hour care) Litter covered with fresh top up bedding to minimise increased odour until bird health recovered.</p> <p>Abnormal events documented, dated and signed, appropriate plans reviewed and updated to prevent re occurrence.</p> <p>Routine Maintenance Technical Standards</p> | |
| Waste Production/Storage | Odour from production or storage areas. | <p>No storage or production of odorous waste on site.</p> <p>Waste management plan in force detailing types and quantities produced along with disposal routes. Records to be kept on site.</p> <p>Cleaning Chemicals Supplied and used by cleaning contractor not stored on site.</p> | In Place |
| Daily Boundary Walk | To check the surrounding area for high levels of odour, and visual (and nasal) inspection of | To check the surrounding area for high levels of odour, and visual (and nasal) inspection of | In place. |

| | | | |
|--|------------------------------------|--|--|
| | potentially odorous activities. | potentially odorous activities. Recorded in Daily Inspection Report | |
|--|------------------------------------|--|--|

ODOUR COMPLAINT FORM RHOSDDU FARM

REFERENCE NUMBER

DATE RECEIVED

| | |
|---|--|
| Name and address of the caller | |
| Telephone number | |
| Location of caller to installation | |
| Time and date of complaint of offending odour | |
| Has the caller any other comments about the odour? | |
| Other comments from caller | |
| Weather conditions | |

| | |
|--|--|
| Wind direction/speed | |
| Any previous complaints relating to this odour? | |
| Any other comments | |
| Other information | |
| Potential source of odour that could give rise to the complaint | |
| Operations being carried out at time of complaint | |
| Follow up date and time caller contacted | |
| Action Taken | |

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| Amendments required to the plan | |
| | |

Completed By

Dated

Signed