



# FUGITIVE EMISSIONS

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

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

**CLIENT:** Mr Martyn Langford

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Hazard	Receptor	Pathway	Risk Management	Exposure	Consequence	Overall Risk
<b>To Air</b>						
Dust: Sources: Litter and Feed.	Neighbouring dwelling houses within 400m of installation Surrounding Land and Vegetation	Air	Use of suitable bedding materials. Use of pelleted feed delivered in sealed systems. House 1 will be cleaned out more frequently so less dust. The litter removed carefully during cleanout minimising dust. Full trailers sheeted before leaving.	Dust could have the potential to reach nearby neighbours and surrounding land during certain weather conditions and operations (clean out approximately 14 days per year) Careful management Should prevent this happening along with frequent manure removal. Unlikely during laying phase.	Nuisance – dust on surrounding vegetation, cars and clothing. Smothering and direct damage to nearby vegetation.	Not significant if carefully managed.
Ammonia: Source: Poultry housing and Litter storage	Neighbouring dwelling houses within 400m of installation Surrounding Land and Vegetation	Air	Measures as described in SGN EPR6.09 How to Comply. Litter kept dry and friable and removed more frequently. Feed formulated to match flock requirements. No storage on site.	The impact of Ammonia Air emissions have been assessed using the H1 methodology.	Arial deposition and direct toxic effect on trees. Nutrient enrichment of soils and changes to sensitive ecosystems.	Significant reduction demonstrated.
Zoonoses and Notifiable diseases	Human Health and Livestock Health	Air, Direct contact	Detailed biosecurity measures in place. Visitor's procedure. Use of appropriate PPE Tailored terminal hygiene programme Veterinarian health plan	Unlikely	Human and Livestock health implications	Not significant if carefully managed.
<b>To Water</b>						
Wash water run off to nearby ditch	Drainage ditches	Land	Wash water from poultry houses directed in sealed system to underground storage tank. Spillages of litter on yard areas during cleanout swept up, Lightly contaminated yard wash directed to underground tank. All clean site drainage directed to soakaways.	Unlikely	Pollution of watercourses leading to eutrophication and poisoning of flora and fauna	Not significant if managed carefully.

<b>Pests</b>						
Flies	Neighbouring dwelling houses within 400m of installation	Air	Temporary field heaps regularly checked for maggots and flies, heaps treated with pesticide and covered if flies become an issue	Unlikely	Flies are a vector of pollution that can harm human health and amenity causing offence.	Not significant if managed carefully.
Rodents/Vermin	Neighbouring dwelling houses within 400m of installation	Land	Feed spillages cleared up promptly. Specialist contractor used to control pests.	Unlikely	Rodents are a vector of pollution that can harm human health and amenity causing offence.	Not significant if managed carefully.