

## Bio Aerosol Emissions at High Emotland Farm

Hazard	Receptor	Pathway	Risk Management	Exposure	Consequence	Overall Risk
<b>To Air</b>						
Dust: Sources: Feed.	Neighbouring dwelling houses within 100m of installation Surrounding Land and Vegetation	Air	Feed delivered in sealed systems. Chain feeding system within poultry houses on timed feed pattern to appetite preventing wastage Dust socks fitted to silo exhaust pipes. Closed system delivery of feed from silo to poultry house. Silos and delivery pipes checked Twice weekly for integrity Feed spills dealt with promptly.	Dust could have the potential to reach nearby neighbours and surrounding land during certain weather conditions.	Nuisance – dust on surrounding vegetation. Smothering and direct damage to nearby vegetation.	Not significant if carefully managed.
Bedding	Neighbouring dwelling houses within 100m of installation Surrounding Land and Vegetation	Air	Bedding layer will be either green sawdust which has high moisture content minimising dust or dust extracted shavings, not blown into poultry house. Shavings spread inside house with only minimum ventilation in operation to minimise dust release. Top up bales spread during cycle with light intensity reduced to prevent birds panicking minimising dust.	Dust could have the potential to reach nearby neighbours and surrounding land during certain weather conditions.	Nuisance – dust on surrounding vegetation. Smothering and direct damage to nearby vegetation.	Not significant if carefully managed.

Litter System	Neighbouring dwelling houses within 100m of installation Surrounding Land and Vegetation	Air	Computer controlled environment keeping humidity between 55 and 60% minimising dust	Dust could have the potential to reach nearby neighbours and surrounding land during certain weather conditions.	Nuisance – dust on surrounding vegetation, cars and clothing. Smothering and direct damage to nearby vegetation.	Not significant if carefully managed.
Ventilation	Neighbouring dwelling houses within 100m of installation Surrounding Land and Vegetation	Air	Use of roof extraction fans on sheds.	Dust could have the potential to reach nearby neighbours and surrounding land during certain weather conditions.	Nuisance – dust on surrounding vegetation, cars and clothing. Smothering and direct damage to nearby vegetation.	Not significant if carefully managed.
Bird Catching	Neighbouring dwelling houses within 100m of installation Surrounding Land and Vegetation	Air	Bird catching under very low light levels to prevent bird stress and minimising dust.	Dust could have the potential to reach nearby neighbours and surrounding land during certain weather conditions.	Nuisance – dust on surrounding vegetation, cars and clothing. Smothering and direct damage to nearby vegetation.	Not significant if carefully managed.
House Cleaning	Neighbouring dwelling houses within 100m of installation Surrounding Land and Vegetation	Air	Litter removed carefully during cleanout minimising dust. Full trailers sheeted before leaving installation. Houses and exhaust vents pre-soaked with low pressure hose to minimise dust release. Exhaust vents then high pressure hosed minimising any lightly contaminated water release onto roofs	Dust could have the potential to reach nearby neighbours and surrounding land during certain weather conditions.	Nuisance – dust on surrounding vegetation, cars and clothing. Smothering and direct damage to nearby vegetation.	Not significant if carefully managed.
<b>Bird Numbers/Type</b>	Neighbouring dwelling houses within 100m of	Air	48000 free range layers. Stock inspections carried out	Dust could have the potential to reach nearby neighbours and	Nuisance – dust on surrounding vegetation, cars and	Not significant

	installation Surrounding Land and Vegetation		by trained staff with reduced light intensity to prevent birds panicking and minimising disturbance and dust levels.	surrounding land during certain weather conditions.	clothing. Smothering and direct damage to nearby vegetation.	
Free range egg Production	Neighbouring dwelling houses within 100m of installation Surrounding Land and Vegetation	Air	Increased distance from poultry houses to sensitive receptors	Dust could have the potential to reach nearby neighbours and surrounding land during certain weather conditions.	Nuisance – dust on surrounding vegetation, cars and clothing. Smothering and direct damage to nearby vegetation.	Not significant