**Bio Aerosol Emissions at Forty Acre Farm poultry unit**

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| **Hazard** | **Receptor** | **Pathway** | **Risk Management** | **Exposure** | **Consequence** | **Overall Risk** |
| **To Air** |  |  |  |  |  |  |
| Dust: Sources: Feed. | Neighbouring dwelling houses within 100m of installation Surrounding Land and Vegetation  |  Air | Feed delivered in sealed systems.Dust socks fitted to silo exhaust pipes.Closed system delivery of feed from silo to poultry house.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, cars and clothing. 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 | Use of suitable bedding materials, not blown into poultry house. | 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. |
| 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 high velocity roof extraction fans  | 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. | 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 Numbers/Type** | Neighbouring dwelling houses within 100m of installation Surrounding Land and Vegetation |  Air | 270000 Broilers/36000 Stag Turkeys. | 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 |
| Broiler/Turkey Production | Neighbouring dwelling houses within 100m of installation Surrounding Land and Vegetation |  Air | High velocity roof extraction fans aiding dispersal. | 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 |