BPEX MODEL TEMPLATE B3.5 6A

Environmental Risk Assessment

Farm name: Carkin Moor Farm Operator: S Ward & J Lee Permit number: EPR/KP3002LX/A001

Table 1 Assessment of Odour Risk

What do you do that can harm and what could be harmed?	Managing the risk	Assessing the	e risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs, who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence
Odour from feed delivery and storage	Neighbouring dwelling houses within 400m of the installation	Air	Measures as described in 'How to comply with your environmental permit for intensive farming V2 Jan 2010' (EPR 6.09 Sector Guidance Note) Odour Management Plan in place due to sensitive receptors within 400m.	Unlikely	Odour annoyance	Not significant

What do you do that can harm and what could be harmed?	Managing the risk	Assessing th	e risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs, who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence
			Feed delivery sealed to minimise atmospheric dust. Any spillage of feed around the bins is immediately cleaned up. The condition of feed bins is checked regularly for integrity, so that any damage or leaks can be identified All feed ingredients are stored in covered silos. The unit is relatively isolated so there is minimal risk of dust causing direct odour nuisance.			

What do you do that can harm and what could be harmed?	Managing the risk	Assessing the risk					
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?	
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs, who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence	
Odour from the manufacturing and selection of feed	Neighbouring dwelling houses within 400m of the installation	Air	No milling and mixing on site. Feed specifications will be prepared by the feed compounder's nutritionist.	Unlikely	Odour annoyance	Not significant	
 Odour arising from problems with housing ventilation system Inadequate air movement in the house leading to high humidity and wet litter 	Neighbouring dwelling houses within 400m of the installation	Air	Measures as described in 'How to comply-Intensive Farming'. The ventilation system is adjusted by computer controls according to the requirements of the birds. The ventilation system will be designed to efficiently remove moisture from the houses. All houses have the same Fumus 2	Unlikely	Odour annoyance	Not significant	

What do you do that can harm and what could be harmed?	Managing the risk	Assessing th	e risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs, who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence
 Inadequate system design causing poor dispersal of odours. 			ventilation system with computer control. Stocking density maintained at or below levels set out in Welfare Regulations.			
 Litter management. Odours arising from wet litter. The use of insufficient or poor quality litter. Spillage of water from the drinking system. Disease problems 	Neighbouring dwelling houses within 400m of the installation	Air	Measures as described in 'How to comply-Intensive Farming' Controls on feed and ventilation by computer control (see above) help to maintain litter quality. Fully insulated and draught controlled buildings, which prevent condensation and damp patches.	Unlikely	Odour annoyance	Not significant

What do you do that can harm and what could be harmed?	Managing the risk	Assessing th	e risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs, who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence
resulting in wet litter.			Stocking density within the Chicken Assured levels. A veterinary health plan is used and there are regular veterinary visits to help prevent disease outbreaks. Water wastage minimised by use of nipple drinkers with drip trays. Regular maintenance and correct positioning to avoid overflow from feed and drinking systems Surfaces prevent water ingress and arranged to			

What do you do that can harm and what could be harmed?	Managing the risk	Assessing the	Assessing the risk					
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?		
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs, who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence		
			avoid build-up of stagnant water Stocking density at optimal levels to prevent overcrowding. Building managed for optimum hygiene and cleanliness by using muck belts twice a week. Potentially odorous spillages (very unlikely) cleaned up promptly.					
Carcase disposal: Inadequate storage of carcases on site	Neighbouring dwelling houses within 400m of the installation	Air	Measures as described in 'How to comply-Intensive Farming' There is no incinerator.	Unlikely	Odour annoyance	Not significant		

What do you do that can harm and what could be harmed?	Managing the risk	Assessing the	e risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs, who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence
On-site disposal of carcases by incineration.			Carcases are collected every day in plastic buckets which are then transferred to a sealed freezer where they are held in a frozen state to stop disintegration and smells until collection by a licenced deadstock collector.			
Buildings: • House clean out	Neighbouring dwelling houses within 400m of the installation	Air	Litter removal is done quickly and efficiently by our own staff. The process will be carried out in a few hours. The litter is loaded immediately onto trailers and taken off site.	Likely	Odour annoyance	Not significant if carefully managed

What do you do that can harm and what could be harmed?	Managing the risk	Assessing the	e risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs, who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence
			Wind direction and land and weather conditions observed. Potentially odorous spillages (very unlikely) cleaned up promptly.			
Odour arising from manure/dirty water storage and spreading	Neighbouring dwelling houses within 400m of the installation	Air	Underground dirty water tank is covered, so reducing risk of odour/emissions. No spreading on operator owned/managed land. All litter and dirty water exported to third party.	Unlikely	Odour annoyance	Not significant if carefully managed.

Table 2 Assessment of Noise Risk

What do you do that can harm and what could be harmed	Managing the risk	Assessing	the risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence
Noise problems from large vehicles travelling to and from the farm. Mobile source	Neighbouring dwelling houses within 400m of the installation	Air	Measures as described in 'How to comply-Intensive Farming' Vehicles are required to be driven on to and off site with due consideration for neighbours Deliveries of feed are made only during the daytime, if possible, so that disturbance is minimised Catching of birds takes place during the night and are of short duration with minimum stress caused. All vehicles	Unlikely	Noise annoyance	Not significant if managed carefully

What do you do that can harm and what could be harmed	Managing the risk	Assessing	the risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence
			are maintained so as to minimise noise. Potholes around the site will be repaired as necessary. All vehicles maintained so as to minimise engine noise and are driven slowly to and from the site. Engines to be switched off when not in use Roads and tracks maintained to minimise noise produced Noise Management Plan in place as there are sensitive receptors within 400m.			

What do you do that can harm and what could be harmed	Managing the risk	Assessing	the risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence
Small vehicles travelling to and from the farm eg staff and visitors' cars, courier van deliveries, etc Mobile source	Neighbouring dwelling houses within 400m of the installation	Air	Measures as described in 'How to comply-Intensive Farming' The farm manager lives on site which will minimise movements. Catching often takes place at night so a catcher's van will arrive during night-time periodically. It will be a modern vehicle and well maintained. Other vehicles movements will be during normal working hours and therefore seen as low risk.	Unlikely	Noise annoyance	Not significant

What do you do that can harm and what could be harmed	Managing the risk	Assessing	the risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence
Feed transfer from lorry to bins and tanks Fixed source	Neighbouring dwelling houses within 400m of the installation	Air	Feed is brought to the site by a modern vehicle and regularly maintained to minimise excessive noise. It is unlikely to be used outside of normal working hours. Vehicles are well maintained and designed so that noise during feed transfer is minimised Conveyors and augers not operated when empty Blower and vacuum type delivery vehicles fitted with low noise units	Unlikely	Noise annoyance	Not significant

What do you do that can harm and what could be harmed	Managing the risk	Assessing	the risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence
Operation of fans Fixed source	Neighbouring dwelling houses within 400m of the installation	Air	Efficient fans used and maintained in good condition to avoid excessive noise Forced ventilation systems with automated controls to minimise run time	Unlikely	Noise annoyance	Not significant
Alarm system and standby generator Fixed source	Neighbouring dwelling houses within 400m of the installation, staff and poultry	Air	Weekly tests are carried out (required by law) during normal working hours. Equipment is regularly maintained to minimise problems to minimise emergency situations. The generator is housed in a purpose- built soundproof container.	Unlikely	Noise annoyance	Not significant
Chickens Mobile source	Neighbouring dwelling houses	Air	Noise from the birds is not considered to be significant as they are housed in very	Unlikely	Noise annoyance	Not significant

⁵ Appendix 5 Environmental-risk-assessment.docx

What do you do that can harm and what could be harmed	Managing the risk	Assessing the risk					
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?	
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence	
	within 400m of the installation		well insulated buildings which minimise any noise during the growing period. If the chickens are caught during the night, this operation is done in darkness so the birds are kept calm and quiet.				
Personnel Mobile source	Neighbouring dwelling houses within 400m of the installation	Air	Staff, catchers and contractors are required to do their job quietly without excessive noise from shouting and use of radios outside, etc.	Unlikely	Noise annoyance	Not significant	

What do you do that can harm and what could be harmed	Managing the risk	Assessing the risk					
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?	
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence	
Repairs	Neighbouring dwelling houses within 400m of the installation	Air	If repairs to the site are required, the work is undertaken with due regard for possible noise nuisance and during the normal working day In the event of major repair work being undertaken which is likely to cause significant noise and disruption, neighbouring residents will be notified in advance	Unlikely	Noise annoyance	Not significant	

Table 3 Assessment of Fugitive Emissions Risk

What do you do that can harm and what could be harmed	Managing the risk	Assessing the risk					
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?	
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.	
To air						·	
Dust (including bio aerosols) Sources: Litter Feed	Neighbouring dwelling houses within 400m of the installation: Nuisance Contributes to odours Human health (inhalation) Surrounding vegetation: Covers leaves and inhibits photosynthesis Surrounding land: Nutrient	Air	Litter is tipped into trailers from minimum height and any spillage is swept with a mechanical brush and pressure washed into a dirty water tank. Regular clearing of dust to prevent build up within buildings, on roofs and around vents, as part of the disease control strategy. The Fumus 2 is an exhaust air chimney with intake, so air is also expelled from the roof as well as fresh air drawn in.	Dust is unlikely to travel outside of the site boundary. The prevailing wind is away from neighbouring houses.	Nuisance: dust on surrounding vegetation, cars, clothing Smothering and direct damage to nearby vegetation Pigs/staff may get stressed and become unwell	Not significant if managed carefully	

What do you do that can harm and what could be harmed	Managing the risk	Assessing the risk					
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?	
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.	
	enrichment of soils Contributes to respiratory problems for poultry and staff		One inlet and one outlet. Muck belts are run twice per week with the muck removed directly from the site. This maintains the cleanliness of the environment in the building, and reduces potential for dust creation.				
Ammonia Source: Poultry housing and litter/dirty water storage, removal and spreading	Neighbouring dwelling houses within 400m of the installation Poultry and staff: high levels can cause respiratory problems	Air	Measures as described in 'How to Comply – Intensive Farming' Mitigation measures as for odour	No detailed modelling required following screening by the Environment Agency.	Aerial deposition and direct toxic effect on trees Nutrient enrichment of soils and changes to	Not significant	

What do you do that can harm and what could be harmed	Managing the risk	Assessing the risk					
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?	
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.	
	Also perceived as a nuisance as it contributes to odours Surrounding vegetation: direct toxic effect and changes to sensitive ecosystems Surrounding land: Nutrient enrichment and acidification of soils		Litter kept in a dry and friable condition. Regularly mucked out with muck belts Feed formulated to match flock requirements and to minimise amount of ammonia produced. Rations under periodic review Ventilation control systems designed to provide optimal environment and regularly monitored and maintained. Dirty water stored in below ground sealed		sensitive ecosystems Respiratory problems in humans and mammals		

What do you do that can harm and what could be harmed	Managing the risk	Assessing the risk					
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?	
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.	
			tanks and removed through enclosed system and tankered off site. Regular monitoring of dirty water tank contents and maintenance of facilities and equipment Fully trained operators				
Zoonoses and notifiable diseases	Human health and livestock health	Air/direct contact	Detailed biosecurity precautions in place, eg use of disinfectants, disposable overalls, cover boots, gloves, hand gel etc for staff	Unlikely	Human and livestock health implications	Not significant if managed carefully	

What do you do that can harm and what could be harmed	Managing the risk		Д	Assessing the ris	k	
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
			and visitors to prevent the spread of disease. Secure site visitor policy Livestock monitored for signs of disease and incidents reported quickly Use of a health plan, with specialist veterinary input in place.			

What do you do that can harm and what could be harmed	Managing the risk	Assessing the risk				
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
To water						
Nutrients such as N and P plus organic matter Source: Wash water run off to nearby water course, litter and dirty water spreading	Nutrient leaching from soil to surface waters and groundwater, causing eutrophication and increased biochemical oxygen demand (BOD) of watercourses	Land	Wash water run off is diverted to underground storage tanks. Rainwater soaks away naturally on this type of land. Rainwater from outside concrete apron areas and roofs is directed to the attenuation pond. Nearest surface water feature is a dyke running North of the installation towards the West. Feed spilt on yard/roadways during	Unlikely	Pollution of water course leading to eutrophication and poisoning of flora and fauna	Not significant if managed carefully

What do you do that can harm and what could be harmed	Managing the risk	Assessing the risk					
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?	
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.	
			clean out is cleaned up Manure taken directly off site				
Spillages from storage and use of pesticides and fuel/chemicals	Vulnerable groundwater beneath site	Land	Management techniques employed aimed at avoiding or minimising use where possible Use of approved chemicals only Operators fully trained and all equipment regularly maintained to avoid any in-field spillage or discharge	Unlikely	Contamination of surface and groundwaters Killing of flora and fauna	Not significant	

What do you do that can harm and what could be harmed	Managing the risk	Assessing the risk					
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?	
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.	
			Medicines and chemicals stored in bunded containers, meeting all relevant regulatory requirements. No fuel stored on site.				
To land							
Ammonia from storage of dirty water, litter and housing	Sensitive nature and conservation sites identified in pre-application screening Is there a SSSI within 500m?	Air	There are no Ramsar, SSSI, SPA or SAC sites within 5km.	Unlikely	Direct toxic effect on trees, nutrient enrichment and acidification of soils Changes to sensitive ecosystems	Not significant if managed carefully	

What do you do that can harm and what could be harmed	Managing the risk	Assessing the risk				
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
Waste materials, packaging, etc. Source: Non-organic waste storage and disposal	Neighbouring dwellings and surrounding habitats and countryside	Air	Policy to avoid production where possible Dedicated storage areas and facilities Collected by licensed contractors for recycling or disposal Regular checks made for rubbish dumped by third parties	Unlikely	Amenity value of countryside spoilt by rubbish Possibility of causing harm to wildlife	Not significant
Pests						

What do you do that can harm and what could be harmed	Managing the risk	Assessing the risk					
Hazard	Receptor	Pathway	Pathway Risk management Probability of exposure			What is the overall risk?	
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.	
Flies on e.g. manure heap could move off- site and affect nearby residents Also, birds, rats, etc.	Neighbouring dwelling houses	Air	Pest management programme in place Manure heaps are off site as all muck is exported Food sources covered and secure from pests	Unlikely	Flies and rats are a vector of pollution that can harm human health Concerns about this pollution can cause offence and affect amenity	Not significant if managed carefully	
Emissions from biomass boiler	N/A	N/A	N/A	N/A	N/A	N/A	

Table 4 Assessment of Accident Risk

What do you do that can harm and what could be harmed	Managing the risk	Assessing the	risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
Spillages from pesticide and biocide handling and storage areas escaping	Potentially polluting liquids flow over yard to clean water soakaways/surrounding land/vulnerable groundwater beneath site	Flowing over yard or through cracks in poor impermeable surface and through the ground	Accident Management Plan in place Repair and maintain any infrastructure and have appropriate containment measures. Any pesticides only applied by qualified staff. Maintenance and regular inspection	Very unlikely	Contamination of local groundwater and potential nearby abstractions	Not significant with measures indicated

What do you do that can harm and what could be harmed	Managing the risk	Assessing the	risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
			procedure designed and implemented Covered foot dips on good concrete with drains located where overflowing gutters will not dilute Regular inspection of facilities and records kept Dedicated container for storage with impermeable hard			

What do you do that can harm and what could be harmed	Managing the risk	Assessing the	risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
			standing within bund Removed from site by licensed contractor Damaged or suspect packaging rejected at time of delivery			
Fuel oil in storage tank/vehicles escaping the containment	Land, groundwater	The surface water drainage system	No fuel oil stored on the installation. Any spillage, from e.g. a vehicle tank, will be contained using materials held on site.	Unlikely	Contamination of local groundwater and potential nearby abstractions	Not significant with measures indicated

What do you do that can harm and what could be harmed	Managing the risk	Assessing the	risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
Spillage of feed, litter or fuel due to operator error when loading and unloading	Land, groundwater	Land, the surface water drainage system	Standard operating procedures applied for loading and unloading The feed is contained in a sealed system. Any spillage cleaned up immediately. Systems and equipment inspected regularly in accordance with the site	Unlikely		

What do you do that can harm and what could be harmed	Managing the risk	Assessing the	risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
			maintenance and inspection procedure. Barriers in place to prevent collision where applicable. Levels measured to prevent overfilling and sight gauge enclosed by guard. All suppliers are		Contamination of local groundwater and potential nearby abstractions	Not significant with the measures indicated

What do you do that can harm and what could be harmed	Managing the risk	Assessing the	risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
			Overhead pipework routed through buildings. No mill and mix on site. Fully trained operators			
Below ground dirty water tanks overflow	Dirty water flows over yard and into natural soakaway	The surface water drainage system	A system of double tanks is employed which are interconnected which means that if one overfills, the dirty water flows into the other tank. The capacity of	Very unlikely	Contamination of local groundwater and potential nearby abstractions	Not significant with the measures indicated

What do you do that can harm and what could be harmed	Managing the risk	Assessing the	risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
			one tank would take all the dirty water washings from one normal wash down, so the second tank is the backup system to prevent overflow. The tanks are emptied before the start of every clean out.			
Failure to contain firewater or offsite pollutants	Natural soakaways Groundwater		Accident Management Plan in place Firewater would be directed to the dirty water tanks and	Unlikely	Contamination of local groundwater and potential nearby abstractions	Not significant with measures indicated. Significant containment capacity.

What do you do that can harm and what could be harmed	Managing the risk	Assessing the	risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
			removed by tankers. The attenuation pond is another containment point preventing direct release to surface or ground water in an emergency. Straw bales/ sandbags are available for containment to protect natural soakaways,		and surrounding nearby land	

What do you do that can harm and what could be harmed	Managing the risk	Assessing the	risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
			Contaminants to be contained and removed or directed to dirty water storage as appropriate.			•
Incorrect disposal of wash water	Natural soakaways, groundwater and nearby land	The surface water drainage system	Staff trained in correct operation procedures All drainage routes shown on drainage plan All wash water automatically collected to dirty water tanks from housing.	Unlikely	Contamination of ground and surface waters	Not significant

What do you do that can harm and what could be harmed	Managing the risk	Assessing the	risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
Acts of vandalism which cause damage to structures and fittings	Surrounding land, surface and ground waters	Land, water	Site security. The sites can be accessed only via tracks which pass residences. Farm gates will be kept shut. CCTV is installed. Sheds, stores and equipment are securely locked at night. Signs are placed around the perimeter to warn unauthorised people against entering the site There is no public footpath through or	Low	Contamination of soil and or water	Low

What do you do that can harm and what could be harmed	Managing the risk	Assessing the	risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
			adjacent to any part of the installation.			
Flooding and other storm damage	Surrounding land, surface and ground waters	Land, water	There is no known flooding risk for this site. Good site layout and design, including attenuation pond. Maintenance of site infrastructure. Observe weather forecasts and weather warnings	Low	Water and soil pollution	Low

What do you do that can harm and what could be harmed	Managing the risk	Assessing the risk				
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
Fire	Livestock, staff, buildings, fuel and oils, chemicals, bedding, feed, local habitats and neighbouring dwellings	Air	Refer to Fire Prevention Plan below. Regular inspection and maintenance of equipment. Fire alarms. No fuel storage. No bedding storage. No biomass boiler.	Unlikely	Toxic smoke and other pollutants, surface run-off from firefighting water, surface run-off from failed storage tanks, pipes and stores Increased numbers of dead animals for disposal	Low

What do you do that can harm and what could be harmed	Managing the risk	Assessing the risk				
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence.
					Dust and fibres from sheet building material.	

What can do harm and could be harmed		Managing the risk	Assessing the risk		
Hazard	Possible cause of fire	Risk Management	Probability of exposure	Consequence	What is the overall risk?
Chicken Shed	Electrical fire	Electrics are checked. Fire extinguishers available in the control rooms. Sheds constructed in steel.	Unlikely	Fire	Not significant if managed carefully
Chicken Shed	Fire spread from outside	The sheds are surrounded by either concrete or hardcore which is kept free of vegetation. Sheds constructed in steel. Escape doors at each end of the sheds and halfway down at each side.	Very Unlikely	Fire	Unlikely

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