

Appendix 6: Technical Standards – Willow Tree Farm

Installation Name: Willow Tree Farm	
Schedule 1 Activity or DAA description	Relevant Technical Guidance note
Section 6.9A (1) (a) (ii)	How to comply EPR 6.09 Version 2
Pig production	
Pig feed storage and preparation	<p>Selection and use of feed is in accordance with SGN EPR6.09 ‘How to comply with your environmental permit for intensive farming’</p> <p><input type="checkbox"/> Feed is stored in purpose built, covered, feed silos as shown in Appendix 4. Dry feed meal is delivered to the farm by lorry from feed suppliers. Feed is blown directly from the lorry into the relevant storage silos. Feed is piped in sealed system to the sheds minimising creation of dust.</p> <p><input type="checkbox"/> Feed storage vessels are protected from collision damage by curbing and barriers.</p> <p><input type="checkbox"/> No liquid feed storage</p> <p><input type="checkbox"/> Areas around buildings are kept free from build-up of slurry and spilt feed</p> <p><input type="checkbox"/> Selection and use of feed is in accordance with SGN EPR6.09 ‘How to comply with your environmental permit for intensive farming’</p> <p><input type="checkbox"/> Protein and phosphorus levels in the rations are matched to the animals’ needs by providing at least two different feed formulations. A nutritionist is employed to regularly review and reformulate diets in order to optimise production and minimise excretion of nutrients.</p> <p><input type="checkbox"/> Hoppers are filled with a chain and disc system and runs every 15 minutes, so the feed never falls any great distance as it is topping up little and often</p>
Slurry and manure storage	<p><input type="checkbox"/> Slurry is stored on site. There is no production of farmyard manure</p> <p><input type="checkbox"/> <i>The system will be entirely slurry-based and slurry from pits under fully slatted floors is vacuum emptied from the pits twice per batch – approximately once every 6 weeks. It is pumped into the process tank (242m3) where it is mixed and separated. The slurry is then pumped into the 7000m3 enclosed slurry bag (already installed) which is located to the East of the housing. Pits measure 1300mm but slurry levels will not exceed the</i></p>

	<p>800mm threshold due to the frequency of removal.</p> <p><input type="checkbox"/> The <u>separated</u> slurry solids are stored in the slurry separation building as shown on the plan. This building will have 6 months storage. The separated material will then be removed to temporary field heaps from where it will be spread on the land.</p> <p><input type="checkbox"/> Slurry is applied to land by injection or dribble bar, and solids from slurry separation is spread at low trajectory, reducing the risk of bioaerosol creation.</p> <p><input type="checkbox"/> The slurry storage facilities conform to the technical measures detailed in the ‘Water resources control of pollution (silage, slurry and agricultural fuel oil) regulations 2010 (England) and as amended 2013’ (SSAFO). The slurry storage bag, tanks, and all part of the drains and reception pits are impermeable.</p> <p><input type="checkbox"/> Wash water and the contents of footbaths is added to the slurry store. Roof water is collected via gutters and down pipes and is directed to the attenuation pond.</p>
<p>Slurry spreading and manure management</p>	<p>Slurry is injected or applied by dribble bar on to land owned and managed by the operator. Application is in accordance with the Defra Code of Good Agricultural Practice and with a manure management plan for the receiving land which is itself in accordance with the NVZ regulations. We keep a copy of this plan, as well as stock counts and the tonnage/litres applied (including dates).</p> <p>The solids from slurry separation is removed to temporary field heaps from where it will be spread on the land.</p> <p>Both the separated slurry and separate is spread on land belonging to the operator.</p> <p>The following protocols will always be followed:</p> <ul style="list-style-type: none"> • No clearing of slurry or spreading during weekends, public holidays

	<p>or outside the hours of 8.00am to 6.00pm inclusive on spreading days;</p> <ul style="list-style-type: none"> • Once started, the clearing and spreading process will be completed in as little time as possible; • The system is sealed, and no spillage is anticipated, however, in the event of any spillage, surrounding concrete aprons to be cleaned immediately. • Dirty water associated with the cleanout process is collected in the slurry tanks. There is no separate disposal of dirty water, this forms part of the slurry tank emptying process.
<p>Fuel oil & chemical storage, low capacity non SRM</p>	<p><input type="checkbox"/> There is no fuel oil or oil storage on the installation.</p> <p><input type="checkbox"/> Disinfectant, pesticide/rodenticide and veterinary medicines are all stored in bunded areas capable of retaining any spillage. There are no other agrochemicals stored on site.</p> <p><input type="checkbox"/> There is no incinerator</p>
<p>Housing</p>	<p>Housing design and management is in accordance with SGN EPR6.09 'How to comply with your environmental permit for intensive farming'</p> <p><input type="checkbox"/> The buildings and associated drainage have all been built to BAT standards, with a strong focus on renewable energy and resource saving and efficiency, e.g. wind energy, fully slatted system, optimised feeding system.</p> <p><input type="checkbox"/> All pigs at all stages are kept on fully slatted floors, in insulated buildings with roof vents at 6.5m and fan efflux velocity at 11m/s. The housing is well insulated, and the sheds have a damp-proof course which helps to reduce heat loss and condensation.</p> <p><input type="checkbox"/> LED lighting is used throughout, and no heating is applied.</p> <p><input type="checkbox"/> All buildings and structures on site are maintained in good repair. In accordance with the management system. There is a programme of inspection and planned preventative maintenance for the housing, drainage and all equipment. Floors and walls are kept clean. Any cracks and</p>

	<p>damaged areas of yards and walls are repaired.</p> <p><input type="checkbox"/> The slat systems remain reasonably clean without accumulation, allowing slurry and urine to transfer quickly to the pits underneath. A treatment to the floors ensures that they are hard-wearing, hygienic, dust-proof and easily cleaned.</p> <p><input type="checkbox"/> Drinkers have been designed to prevent leakage to minimise the amount of dirty water going to the slurry storage. Water nipple drinkers are used, and water consumption is monitored.</p> <p><input type="checkbox"/> Service checks are carried out on the ventilation system monthly in accordance with the manufacturer's instructions. Alarms are tested weekly.</p>
Low capacity non SRM	N/A
Drainage	<p><input type="checkbox"/> There are no direct or indirect releases to ground water</p> <p><input type="checkbox"/> Refer to the drainage plan(Appendix 4). A copy of the drainage plan is also kept with the accident management plan.</p> <p><input type="checkbox"/> The clean water drainage systems are not contaminated. Slurry is not allowed to enter surface water drains. Only roof water and clean yard water leaves the site, to the attenuation pond. All contaminated water is directed to the slurry storage.</p> <p><input type="checkbox"/> Yard areas are kept visibly clean; drainage channels are kept clear and spilt feed and dust are cleaned up</p> <p><input type="checkbox"/> Drainage from the animal housing and water from cleaning out is treated as slurry and directed to the slurry store.</p> <p><input type="checkbox"/> Disinfectant footbaths are designed not to overflow. Used disinfectant is added to the slurry store.</p>
Livestock numbers and movements	A system is in place to record the number of animals on the farm at any one time. Animal movements on and off the farm are also recorded; these records will be available for inspection.
Deadstock disposal	Fallen stock is disposed of in accordance with the current Animal By-Products Regulations. It is collected by a licenced contractor once per week, or sooner if required. Deadstock collection vehicles are kept to the perimeter of the site to reduce disease risk. The deadstock collector delivers a washed and disinfected carcass bin when they collect a full one.
Veterinary medicines and pest control	Pesticides/rodenticide and veterinary medicines are kept in a store capable of retaining spillage, resistant to fire and are kept dry, frost free and secure.
Pollution Prevention Measures	<input type="checkbox"/> All operations are assessed annually for opportunities to reduce pollution risk and implementation schedules developed as appropriate.

	<input type="checkbox"/> All staff are trained in pollution risk identification, minimisation and emergency procedures for general site activity and activity relating to their work duties. <input type="checkbox"/> There is an accident management plan in place with a procedure to review incidents.
Hazardous waste	Veterinary waste is removed by the vet for safe disposal. Other hazardous waste, such as fluorescent light bulbs, waste oil, aerosols, etc. are removed by a licensed contractor with an adequate audit trail, meeting the requirements of the Environmental Permitting Regulations.

Table of Emission Points

Emission Point Reference	Emission Point Description and Location	Source
Air		
App 4	Roof fan outlets	Outlets on all pig buildings as located in App 4a
App 4	Slurry system	Enclosed slurry handling system (including separation operations) and storage bag
Manure Management Plan	Land spreading - outside installation boundary	Land spreading is by injection or dribble bar (of liquids) and low trajectory spreading (of solids) to reduce aerosol effect
	<p>There is no fixed generator. If a generator was required, this would be hired by local plant hire company.</p> <p>There is no incinerator and no fuel store within the installation or used specifically for the pig enterprise.</p> <p>Sealed feed bins are marked on Appendix 4. Feed is delivered in.</p>	
Water		
App 4	Roof water directed to attenuation pond.	Roof water from all buildings and clean water from uncontaminated yard areas
	All contaminated yard drainage directed to slurry storage.	
Land		
Various	Slurry spreading - outside installation boundary (refer to Manure Management Plan)	Slurry application

There are no emissions to groundwater.

Fugitive Emissions

Appropriate measures for preventing and minimising fugitive emissions are in place in accordance with the SGN EPR6.09 'How to comply with your environmental permit for intensive farming'. Buildings are maintained in good repair. Areas around buildings are kept free from build-up of slurry and spilt feed. Footbaths are managed so that they do not overflow.

Drainage from animal housing and water from cleaning out falls in to slats underneath as shown on the site drainage plan. Clean drainage systems are not contaminated.

Dust

Feed is stored in purpose built covered feed silos. These diets are delivered in via sealed system. Feed is piped from the feed bins to the adlib feeders in the sheds, minimising dust emissions. No straw use.

Ventilation systems are operated to achieve optimum humidity levels for the stage of production in all weather and seasonal conditions. Up to date monitoring and control systems are installed. Fans regularly serviced and cleaned.

Rainwater runoff is collected by the guttering system and routed to drains.

There is no incinerator or generator.

Carcass management

Fallen stock is disposed of in accordance with the current Animal By-Products Regulations. Carcasses are stored in a locked and sealed bin before collection by a licenced contractor.

Flies

Appropriate actions will be put into place to prevent and control flies should a nuisance arise.

Bunding and containment

Agriculture Fuel oil and other chemical storage

No fuel oil storage on the installation or related specifically to the pig enterprise. Pesticides and veterinary medicines are kept in a store capable of retaining spillage, resistant to fire, dry, frost free and secure.

Foodstuffs

Feed is stored in purpose built covered feed silos. All feed is delivered to the farm by lorry from feed suppliers. Feed is blown directly from the lorry into the storage silos, through sealed system. Feed is piped from the feed bulk bins shown in Appendix 4, to ad lib feeders in the sheds minimising dust emissions.

There is no liquid feed storage.

Feed storage vessels are protected from collision damage by curbing and barriers. There is minimal possibility of dust emissions around milling or mixing operations as machinery is fitted with dust control equipment.

Odour

There are no neighbours (sensitive receptors) within 400m of the farm.

If this were to change, or complaints were received regarding odour, an Odour Management Plan would be designed and implemented which conformed with the SGN EPR6.09 'How to comply with your environmental permit for intensive farming' and the H1 Environmental Risk Assessment (Appendix 5).

This plan would be reviewed in the light of any building and management changes, and on the outcome of investigations into the causes of any future complaints, if any occur.

Any complaints will be recorded and investigated using the guidance from EPR 6.09 3.1 and 3.2 odour and emissions management on intensive livestock installations.

Noise and vibration

There are no neighbours (sensitive receptors) within 400m of the farm.

If this were to change, or complaints were received regarding noise, a Noise Management Plan would be designed and implemented which conformed with the SGN EPR6.09 'How to comply with your environmental permit for intensive farming' and the H1 Environmental Risk Assessment (Appendix 5).

This plan would be reviewed in the light of any building and management changes, and on the outcome of investigations into the causes of any future complaints, if any occur.

Any noise complaints will be reported to Cattle Holderness Ltd who will log and investigate causes of all complaints, identifying the source of the noise issue and monitoring noise levels at the site boundary as part of the investigation. The complaint details and subsequent investigation will be recorded on the site complaint form and a copy will be kept in the site office.