**012 Technical Standards Document**

Farm name: Wheaton Aston Pig Unit Operator: Belmont Farms Ltd Permit number: BP3709LB

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| **Schedule 1 activity or directly associated activity (DAA) description** | **Relevant technical guidance note** |
| Section 6.9A (1) (a) (ii) Pig production | How to comply EPR 6.09 Version 2 |
| Pig feed storage and preparation | * Selection and use of feed are in accordance with Sector Guidance Note (SGN) EPR6.09 ‘How to comply with your environmental permit for intensive farming’
* Feed is stored in purpose-built, covered, feed silos and tanks located next to the pig sheds. Milling and mixing of feed takes place off farm and delivered in. The site is mainly wet feed, but when dry feed is delivered to the farm by lorry from feed suppliers or by tractor and trailer. Feed is blown, augured or pumped directly from the lorry into the relevant storage silos. Feed is piped from the silos to the sheds, minimising dust emissions. Most feed is in liquid form, which minimises dust
* All liquid feed storage is contained within a bunded area, preventing any spillage from entering the drainage system.. Feed storage vessels are protected from collision damage by curbing and barriers
* Selection and use of feed are in accordance with SGN EPR6.09 ‘How to comply with your environmental permit for intensive farming’
* 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, to optimise production and minimise excretion of nutrients. Synthetic amino acids are used to ensure that the protein needs of the pigs are met, with the minimum amount of protein in the diet
 |
| Slurry and manure storage | * Slurry is stored on site but no manure is produced.
* Slurry from buildings 1,2 and 3 is piped to the reception tank and piped into slurry tank 1. Slurry from buildings 5-9 is piped directly to slurry tank 1.
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|  | * 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 base of the storage tank and all parts of the drains and reception pits are impermeable. The slurry storage tank and reception pit are designed to BS5502, Part 50.
* The farm is located within a Nitrate Vulnerable Zone (NVZ). The slurry storage tank capacity is six months’ production, including an allowance for rainwater. The slurry storage tank has been designed to have a minimum 300 mm freeboard
* The slurry stores are only agitated prior to emptying
 |
| Slurry spreading and manure management | * Slurry is exported from the site. Records are kept of the arrangements in place when slurry is exported from the site. We have written confirmation that the recipient will spread the slurry and manure to land in accordance with the Defra Code of Good Agricultural Practice and that the spreading will be in accordance with a manure management plan for the receiving land, although this is not required at the time of application
 |
| Fuel, oils and chemical storage | * Fuel oil, oils, pesticides and veterinary medicines are all stored in bunded areas capable of retaining any spillage
 |
| Housing | * Housing design and management is in accordance with SGN EPR6.09 ‘How to comply with your environmental permit for intensive farming’
* All pig housing is FSF with frequent slurry removal with 800mm slurry channels with the exception of building 4 which is to be used for hospital accommodation.
* Housing review completed to confirm all housing is BAT compliant
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|  | * The animal housing is either of insulated prefabricated construction or portal frame with block penning. The housing is well insulated, where appropriate, and the sheds have a damp-proof course, which helps to reduce heat loss and condensation
* All buildings and structures on site are maintained in good repair, in accordance with the management system. There is a program of inspection and planned preventative maintenance for the housing and drainage. Floors and walls are kept clean. Any cracks and damaged areas of yards and walls are repaired
* The slat systems remain fairly clean without accumulation, allowing slurry and urine to transfer quickly to the pits underneath
* Slurry is frequently removed from beneath the slats to the slurry store when there is sufficient slurry to pump out.
* Drinkers and troughs have been designed to prevent leakage to minimise the amount of dirty water going to the slurry tank
* Service checks are carried out on the ventilation system monthly, in accordance with the manufacturer’s instructions
 |
| Drainage | * Refer to the Drainage Plan. The clean water drainage systems are not contaminated. Slurry is not allowed to enter surface water drains
* Yard areas are kept visibly clean, drainage channels are kept clear and spilt feed and dust are cleaned up
* Drainage from the animal housing and water from cleaning out is treated as slurry and directed to the slurry store. Only pig movements outside are on the loading ramp which drains back to the housing slurry channels.
* Roof water drainage from the animal housing is directed to clean water drainage ditches. Disinfectant footbaths are designed not to overflow. Used disinfectant is added to the slurry store
* All clean water discharge points are annotated on the site plan and listed as discharge points on the emissions table within this document.
 |
| 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  | * Fallen stock is disposed of in accordance with the current Animal By-Products Regulations. The site uses a licensed carrier to dispose of them, they are kept in locked covered bins prior to collection.
 |
| Pollution prevention measures | * All operations are assessed annually for opportunities to reduce pollution risk and implementation schedules developed as appropriate
* All staff are trained in pollution risk identification, minimization and emergency procedures for general site activity and activity relating to their work duties
* There is an accident management plan in place, with a procedure to review incidents
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| Veterinary medicines and pest | * Pesticides and veterinary medicines are kept in a store capable of retaining spillage, resistant to fire, and are kept
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| control | dry, frost-free and secure. Vermin control chemicals are brought on site by a registered contractor for use as needed. Chemicals to control flies and other insect pests will be stored with agro-chemicals on the arable unit, if needed |
| 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
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# Buildings inventory

For location of buildings, refer to the Site Layout Plan

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Building Number** | **Pig Type** | **Pig Numbers** | **Feed Type** | **Floor Type** | **Ventilation Type** | **Slurry Depth** |
| 1 | Farrowing Sows | 420 | Wet Feed | FSF | Wall Fans @ 2.7m high | 800mm |
| 2 | Dry SowsBoars  | 6565 | Wet Feed | FSF | Velocity Roof Fans 5m/s >5.5m | 800mm |
| 3 | Dry Sows | 1020 | Wet Feed | FSF | Wall Fans @ 2.7m high | 800mm |
| 4 | Dry Sows | 200 | Dry Feed | Straw Yard | Natural Ventilation | N/A |
| 5 | Maiden Gilts >30kg | 300 | Dry Feed | FSF | Velocity Roof Fans 5m/s >4.5m | 800mm |
| 6 | Maiden Gilts >30kg | 300 | Dry Feed | FSF |  Velocity Roof Fans 5m/s >4.5m | 800mm |
| 7 | Maiden Gilts >30kg | 300 | Dry Feed | FSF |  Velocity Roof Fans 5m/s >4.5m | 800mm |
| 8 | Maiden Gilts >30kg | 300 | Dry Feed | FSF |  Velocity Roof Fans 5m/s >4.5m | 800mm |
| 9 | 15-30kg | 500 | Dry Feed | FSF |  Velocity Roof Fans 5m/s >4.5m | 800mm |
|   |   |   |   |   |   |   |
| Slurry tank 1  | 36 m in diameter  | dome solid cover  |   |   |   |   |
| Slurry Tank 2 | 36m in diamneter  | dome solid cover  |   |   |   |   |
| Slurry Lagoon  | 2794.5 sqm  | floating LECA balls  |   |   |   |   |
|   | **Farrowers**  | 420 |   |   |   |   |
|   | **Dry Sows** | 1876 |   |   |   |   |
|   | **Maiden Gilts above 30kg - production pig**  | 1200 |   |   |   |   |
|   | **15-30kg**  | 500 |   |   |   |   |
|  | **Boars** | 5 |  |  |  |  |

# Odour

There are sensitive receptors within 400 m of the farm and, therefore, an up-to-date Odour Management Plan is in place. This conforms with the SGN EPR6.09 ‘How to comply with your environmental permit for intensive farming’ and the H1 Environmental Risk Assessment. There is no history of odour complaints resulting from current activities on the unit.

# Noise

There are sensitive receptors within 400 m of the farm and, therefore, an up-to-date Noise Management Plan is in place. This conforms to SGN EPR6.09 ‘How to comply with your environmental permit for intensive farming’ and the H1 Environmental Risk Assessment.

There is no history of noise complaints resulting from current activities on the unit.

**Dust**

Dust Management plan in place.

# Site operations and pollution prevention measures

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| **1.Site** | **2. Substance** | **3. Relevant** | **4. Possible failure** | **5. History/records or visual** | **6. Do pollution** | **7. Provide details of pollution** | **8.Testing and** |
| **operations** |  | **activity** | **mechanism and potential** | **evidence of leaks of potentially** | **prevention** | **prevention measures** | **inspection of** |
| **(storage and** |  |  | **for pollution** | **polluting substances to land** | **measures exist** |  | **pollution** |
| **use)** |  |  |  | **associated with the activities** | **for relevant** |  | **prevention** |
|  |  |  |  | **that could result in ongoing** | **activity?** |  | **measures** |
|  |  |  |  | **emissions to land, e.g. cracking** |  |  |  |
|  |  |  |  | **in hard standing, leaking tank** |  | To include: primary, e.g. tanks or | Note: If you are not |
|  |  |  |  | **or bund** |  | pipework; secondary, e.g. bund or | able to supply all of |
|  |  |  |  | Detail any incidents of pollution or | Yes/No | hard standing and, where | this information at |
|  |  |  |  | spills from the relevant activity. |  | present, tertiary, e.g. oil | present, you may |
|  |  |  |  | This can be based on visual |  | interceptor | submit the details |
|  |  |  |  | assessment during site walk over |  |  | with your Accident |
|  |  |  |  | or other records and data sources |  |  | Management Plan |
| Vehicle and | Fuel oil | Main storage | Failure of tank leading to | None identified | Yes | Concrete base and bund | Tank, fittings and |
| machine fuel/ |  |  | spillage to land |  |  | containing tank and fill point | bund visually |
| incinerator |  |  |  |  |  | Double valves locked when not | inspected monthly |
| fuel |  |  |  |  |  | in use | and following any |
|  |  |  |  |  |  | Sight gauge enclosed by guard | notified spill |
|  |  |  |  |  |  | Complies with SSAFO |  |
|  |  |  |  |  |  | Regulations |  |
|  |  | Delivery by | Spillage from road tanker on | None | Yes | Delivery by supplier’s vehicle. | Concrete hard |
|  |  | road tanker | installation yards entering | Evidence of minor spills on |  | Oil tank located at edge of site | standing area |
|  |  | to installation | clean drainage and hence | concrete. Concrete in good |  | to avoid unnecessary traffic past | visually inspected |
|  |  | and road | soakaways | condition |  | the pig buildings | monthly |
|  |  | tanker off- | Spillage from road tanker or | Area drains to slurry store |  | Tank and fixed pipework within | Bunded area and |
|  |  | loading | delivery pipework to yard |  |  | bunded area | tank visually |
|  |  |  |  |  |  | Concrete hard standing | inspected before |
|  |  |  |  |  |  | Materials available to soak up | each delivery |
|  |  |  |  |  |  | minor spills |  |
|  |  |  |  |  |  | Area drains to slurry store |  |
|  |  |  |  |  |  | reception pit so containment |  |
|  |  |  |  |  |  | provided |  |
|  |  | Fuelling | Spillage on yard, overflowing | As above | Yes | As above. Automatic closing | As above |
|  |  | vehicles | tanks |  |  | trigger, locks on valves stored in |  |
|  |  |  |  |  |  | bund when not in use |  |
|  |  |  |  |  |  | Record kept of fuel use, |  |
|  |  |  |  |  |  | regularly reviewed |  |
|  |  |  |  |  |  |  | part of annual |
|  |  |  |  |  |  |  | service schedule |

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|  |  |  |  | assessment during site walk over |  |  | with your Accident |
|  |  |  |  | or other records and data sources |  |  | Management Plan |
| Feed | Nutrients: Phosphorus and nitrogenDust | Delivery to storage areas: dry bulk | Spillage, split or failed pipework, dust, failure of bins | None | Yes | Purpose-made dedicated stores | Pipework and bins regularly inspected to assess condition |
| Delivery to | Spillage, split bags | None | Yes | Purpose-made dedicated stores storesstores | Regular inspection |
| storage |  |  |  |  | of facilities and |
| areas: dry |  |  |  |  | equipment |
| bagged |  |  |  |  |  |
| Distribution: all | Broken augers | None | Yes | Auger runs kept to minimum, mostly within buildings | Regular inspection of facilities and equipment |
| Transfer | Failure of pipework or tanks | None | Yes | Bunded tanks | Regular inspection |
| from delivery |  |  |  |  | of facilities and |
| tanker to |  |  |  |  | equipment |
| storage: |  |  |  |  |  |
| liquid bulk |  |  |  |  |  |
| Feed mixing | Failure of pipework or tanks | None | Yes | Impermeable floors and hard | Regular inspection |
| and | overflowing troughs |  |  | standings | of facilities and |
| distribution: |  |  |  | Feed mixing area drains directly | equipment |
| liquid |  |  |  | to slurry reception pit |  |
|  |  |  |  | Overhead pipework routed |  |
|  |  |  |  | through buildings with internal |  |
|  |  |  |  | slurry storage or over yard area |  |
|  |  |  |  | draining to slurry store |  |
| Slurry | (Nutrients) | Storage | Structural failure | None | Yes | Dedicated purpose-built | Regular inspection |
| (including | ammonia, | within | Overflow to clean water | Below ground structures not |  | facilities, including impermeable | of facilities and |
| dirty water) | nitrate, | buildings, | stream/ground water, land | checked for integrity but no |  | yards and aprons, falls and | equipment |
|  | phosphate | transfer to | and property | indications from use and |  | gradients arranged to direct flow |  |
|  |  | reception pit, |  | surrounding areas of leakage |  | to appropriate storage facilities |  |
|  |  | store in main |  | Aboveground pollution prevention |  | and minimise contamination |  |
|  |  | slurry store |  | measures in good condition |  | Regular monitoring of tank and |  |
|  |  |  |  |  |  | store contents |  |

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|  |  |  |  | **emissions to land, e.g. cracking** |  |  |  |
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|  |  |  |  | or other records and data sources |  |  | Management Plan |
|  |  | Transfer from storage to tanker | Reception pit overflow during agitationLeaking tanker | None | Yes | Above ground slurry store fitted with double gate valvesAll equipment regularly serviced | Regular inspection of facilities and equipment |
| Road transport to field | Tanker failure, road accident | None | Yes | Purpose-made equipment, regularly maintainedFully trained operators | Regular inspection of facilities and equipment |
| Field | Surface run-off, drain | None | Yes | Spreading in accordance with | Regular soil nutrient |
| spreading | contamination |  |  | Manure Management Plan and | testing |
|  |  |  |  | advice from qualified person |  |
|  | Over-application of plant |  |  |  |  |
|  | nutrients |  |  |  |  |

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|  |  |  |  | or other records and data sources |  |  | Management Plan |
| Pesticides | List | Delivery and | Spillage, leaks, overflowing, | None | Yes | Transfer directly from delivery | Deliveries monitored |
| and biocides | substances | transfer from | contamination of clean |  |  | vehicle to dedicated store | Regular inspection |
|  | used | vehicle to | drains |  |  | Damaged or suspect packaging | of facilities and |
|  |  | on-site |  |  |  | rejected at time of delivery | equipment |
|  |  | storage |  |  |  | Dedicated contained store to | Full application |
|  |  | Storage of |  |  |  | current specification | records |
|  |  | pesticides |  |  |  | Records kept | Regular inspection |
|  |  | Mixing of |  |  |  | Dedicated mixing area, | of storage area |
|  |  | pesticides |  |  |  | impermeable base, drains to | Records kept |
|  |  | Application |  |  |  | slurry store |  |
|  |  | foot dip and |  |  |  | Trained staff with appropriate |  |
|  |  | wheel wash |  |  |  | qualifications |  |
|  |  | use |  |  |  | Relevant Codes of Practice |  |
|  |  | Transfer of |  |  |  | followed |  |
|  |  | pesticide |  |  |  | Foot dips on good concrete, |  |
|  |  | and biocide |  |  |  | drains to slurry store or dirty |  |
|  |  | Disposal of |  |  |  | water system |  |
|  |  | waste |  |  |  | Foot dips located where |  |
|  |  | packaging |  |  |  | overflowing gutters will not dilute foot dips |  |
|  |  |  |  |  |  | Wheel wash constructed from |  |
|  |  |  |  |  |  | reinforced concrete with sealed |  |
|  |  |  |  |  |  | joints |  |
|  |  |  |  |  |  | Dedicated container, |  |
|  |  |  |  |  |  | impermeable hard standing |  |
|  |  |  |  |  |  | within bund |  |
|  |  |  |  |  |  | Removed from site by licensed |  |
|  |  |  |  |  |  | contractor |  |
|  |  |  |  |  |  | Dedicated storage area |  |
|  |  |  |  |  |  | Removal by licensed collector |  |

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|  |  |  |  | or other records and data sources |  |  | Management Plan |
| Dirty | Nutrients, | Wash waters | No wash water on yards  yards and is kept within housing slurry system.  |  |  |  |  |
| water/wash | pesticides, | from rearing |  |
| waters | biocides | units/yard/ |  |
|  |  | equipment |  |
|  |  | Drainage |  |
|  |  | from rearing |  |
|  |  | units/yard |  |
|  |  | Area |  |
|  |  | below |  |
|  |  | ground |  |
|  |  | storage |  |
|  |  | Above |  |
|  |  | ground |  |
|  |  | storage |  |
|  |  |  |  |  |  |  | standards |