## Noise Management Plan for Feltwell Farm Pig Unit (comprising Airfield Farm & Feltwell Farm)

The H1 environmental risk assessment submitted with an application to vary the permit for redevelopment of Feltwell Farm Pig Unit identified sources of noise with potential to cause annoyance. Created and updated this noise management plan (NMP) to support the overall environmental management system in place at Feltwell Fm. The overriding principle is to ensure day-to-day activities are carried out in accordance with the plan so there is no reasonable cause for annoyance to people outside the installation boundary. Significant pollution outside the boundary is not expected, operator has no record or recollection of noise concerns or complaints and will continue to foster good relations with neighbours.

Actions and contingency actions in this NMP are best available techniques (BAT) in accordance with Best Available Techniques (BAT) Reference Document 2017, Environment Agency (2005) Technical Guidance Note IPPC SRG 6.02 (Farming); Noise Management at Intensive Livestock Installations, and Environment Agency (2021) Guidance - Noise & vibration management: environmental permits.

Identified sensitive receptors within 400m of the installation boundary from a site walkover and desk top study. The residential dwellings at Feltwell Fm are not owned by the operator or occupied by workers at Airfield, Feltwell or Methwold (Breckland) Fm. The receptors are shown in Table 1 and Figure 1:-

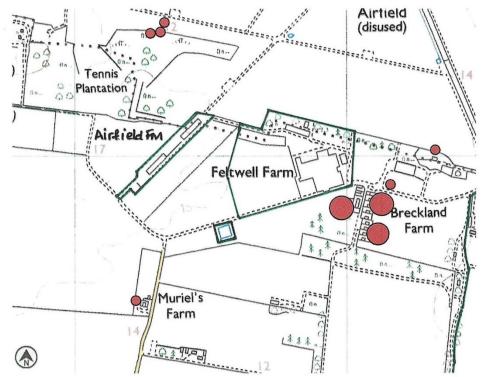
Nº.	Receptor	NGR	Direction	Distance from boundary
1	Residential - Feltwell Farm, Lodge Road, Feltwell, Thetford, IP26 4DU	TL 73050 92888	SSE	20m
2	Residential - Feltwell Farm, Lodge Road, Feltwell, Thetford, IP26 4DU	TL 73047 92870	SSE	30m
3	Residential - Feltwell Farm, Lodge Road, Feltwell, Thetford, IP26 4DU	TL 73046 92846	SSE	50m
4	Residential - Feltwell Farm, Lodge Road, Feltwell, Thetford, IP26 4DU	TL 73049 92849	SSE	65m
		TL 73035 92829		
5	Residential - Feltwell Farm, Lodge Road, Feltwell, Thetford, IP26 4DU	TL 73079 92861	SSE	60m
6	Residential - Feltwell Farm, Lodge Road, Feltwell, Thetford, IP26 4DU	TL 73085 92858	SSE	70m
7	Residential - Feltwell Farm, Lodge Road, Feltwell, Thetford, IP26 4DU	TL 73089 92856	SSE	75m
8	Residential - Feltwell Farm, Lodge Road, Feltwell, Thetford, IP26 4DU	TL 73078 92839	SSE	75m
9	Residential - Feltwell Farm, Lodge Road, Feltwell, Thetford, IP26 4DU	TL 73075 92820	SSE	90m
10	Residential - Feltwell Farm, Lodge Road, Feltwell, Thetford, IP26 4DU	TL 73070 92801	SSE	105m
11	Residential - Feltwell Farm, Lodge Road, Feltwell, Thetford, IP26 4DU	TL 73067 92781	SSE	120m
12	Residential - Feltwell Farm, Lodge Road, Feltwell, Thetford, IP26 4DU	TL 73071 92760	SSE	140m

Table 1. Feltwell Farm Pig Unit receptor locations within 400m

13	Residential - Feltwell Farm, Lodge Road, Feltwell, Thetford, IP26 4DU	TL 73067 92741	SSE	160m
14	Residential - Feltwell Farm, Lodge Road, Feltwell, Thetford, IP26 4DU	TL 73063 92721	SSE	180m
15	Residential - Feltwell Farm, Lodge Road, Feltwell, Thetford, IP26 4DU	TL 73060 92705	SSE	190m
16	Industrial - Warren Energy Ltd, Brandon Road, Methwold, Thetford, IP26 4RJ	TL 73179 92946	E	165m
17	Residential - Brandon Road, Methwold, Thetford, IP26 4RJ	TL 73362 92998	E	340m
18	Residential - Muriel's Farm, Old Methwold Road, Feltwell, Thetford, IP26 4DX	TL 72279 92500	SW	365m
19	Agricultural - Annyalla Poultry Fm, Brandon Rd, Methwold, Thetford, IP26 4RJ	TL 72181 93430	NW	395m
20	Residential - Brandon Road, Methwold, Thetford, IP26 4RJ	TL 72284 93478	NW	370m
21	Residential - Brandon Road, Methwold, Thetford, IP26 4RJ (Planned)	TL 72324 93492	NW	380m

Distances measured on government website at magic.defra.gov.uk

#### Fig 1. Feltwell Farm Pig Unit receptor locations within 400m



Residential dwellings likely have high sensitivity – reasonably expect enjoyment of a high level of amenity, and where people would reasonably be expected to be present continuously, or at least regularly for extended periods.

Industrial and agricultural premises likely have low sensitivity – where the enjoyment of amenity would not reasonably be expected, or there is transient exposure, where the people would reasonably be expected to be present only for limited periods of time as part of the normal pattern of use.

The following table sets out:-

- Sources of noise from a typical intensive pig unit
- Actions taken at Feltwell Farm to prevent or minimise noise levels
- Contingency actions to limit exposure to elevated noise emissions beyond the installation boundary.

issue	problems		
issue Noise from routine work activity Mobile source	<ul> <li>Problems</li> <li>Revving tractor engines</li> <li>Reversing signals</li> <li>Scraping on concrete</li> <li>Moderate-loud noise</li> </ul>	<ul> <li>Restricted to normal working times 07.00-23.00 hours, Monday to Friday and Saturday morning in accordance with How to comply. Also, on Sunday and bank holiday mornings owing to preference for pushing out dunging and laying areas daily for pig welfare, health and to minimise odour.</li> <li>Farmworkers can start at 06.00 in warm weather.</li> <li>Farm tractors used to pushout and load manure and take in straw, engine revs kept low and idling between jobs avoided to minimise noise, engines switched off when vehicle not in use. Tractors enclosed inside pig house most of the time.</li> <li>Audible 'reversing' signals for safety.</li> <li>Vehicle access restricted to qualified farmworkers.</li> <li>Loading manure outside manure barn into tractors &amp; trailers, HGVs approx. 3 times every week. Manure exported offsite to another farming business for use as organic nitrogen fertiliser &amp; soil conditioner. No buildings for any screening effect or barrier to noise at nearby sensitive receptors, noisy, short duration activity typically takes less than an hour each load.</li> <li>Preventive maintenance programme for farm vehicles. Farmworkers carry out pre-start safety checks, working properly, repair minor faults or callout maintenance team, or vehicle emise.</li> </ul>	<ul> <li>Forecast extraordinary warm temperature.</li> <li>Heatwaves in June, July, and August.</li> <li>Met Office definition for UK heat wave is an extended period of hot weather for 3 consecutive days with daily maximum temperatures meeting or exceeding the heat wave temperature threshold of 27°C for Norfolk.         <u>Timeframe for implementation</u>         Immediate, same day.         <u>Contingency actions</u>         Farmworkers can start 06.00.         Minimise disturbing pigs in warm weather.         Checking daily &amp; weekly weather forecast.         <u>Duration of action</u>         Warm weather likely to last days, weeks.</li>         Heatwaves will become more frequent. According to Agency adapting to climate change risk assessment summer daily maximum temperature may be around 7°C higher compared to average summer temperature now by 2050, or sooner.         <u>Cessation of action</u> </ul>
		<ul> <li>buildings for any screening effect or barrier to noise at nearby sensitive receptors, noisy, short duration activity typically takes less than an hour each load.</li> <li>Preventive maintenance programme for farm vehicles. Farmworkers carry out pre-start safety checks, working properly, repair minor faults or</li> </ul>	<ul> <li>summer daily maximum temperature may be around 7°C higher compared to average summer temperature now by 2050, or sooner.</li> <li><u>Cessation of action</u></li> <li>Outside temperature less than 30°C and pigs properly</li> </ul>

Contingency actions to minimise noise and noise risks

### Table 2. Routine actions and contingency actions to minimise noise and noise risks at Feltwell Farm Pig Unit Routine actions to minimise noise and noise risks

Noise related

Potential risks and

Noise related	Potential risks and	Routine actions to minimise noise and noise risks	Contingency actions to minimise noise and noise risks
issue	problems		
		<ul> <li>Good outside concrete scraping area designed to minimise area of contaminated yard when pushing out manure and straw in between buildings provides screening and noise barrier between activity and receptors.</li> <li>Farmworkers check scraped area every day. Call out maintenance team or building contractors to repair any defects.</li> <li>Keep doors of rearing houses closed when not in use.</li> <li>Electric pumps for example water for pigs &amp; slurry into storage tank running intermittently considered to be low noise and enclosed.</li> </ul>	
People noise	Faint-moderate     noise	Farm workers, contractors, visitors instructed to avoid raised voices playing radios unnecessarily loud.	
Noise from large delivery vehicles travelling to & from farm Mobile source	<ul> <li>HGVs, tractors &amp; trailers</li> <li>Release of air brakes</li> <li>Revving engines</li> <li>Rattling empty trailers</li> <li>Reversing signals</li> <li>Loud-very loud &amp; intrusive</li> </ul>	<ul> <li>Restricted to normal working times 07.00-23.00 hours in working week Monday to Friday and Saturday morning but exclusive of public and bank holidays in accordance with How to comply. Outside these times in event of extraordinary circumstances, delays, breakdowns, availability only.</li> <li>Speed restriction on approach track &amp; onsite 5mph.</li> <li>Vehicles not allowed to wait on hardstanding nearest sensitive receptors in Feltwell Fm bungalows.</li> <li>Drivers made aware of driving slowly on and offsite in forward gear, to minimise noise, engines to be switched off when vehicle not in use.</li> <li>Audible 'reversing' signals for safety.</li> </ul>	

Table 2. Routine actions and contingend	v actions to minimiso r	noise and noise risks	at Foltwoll Farm Dia Unit
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Noise related issue	Potential risks and problems	Routine actions to minimise noise and noise risks	Contingency actions to minimise noise and noise risks
		<ul> <li>Well maintained units, tractors, bulk, livestock trailers expected of haulage contractors to minimise noise.</li> <li>Concrete apron all round houses for smooth passage of HGV and farm vehicles to minimise noise.</li> <li>Farm manager regularly inspects concrete apron. Maintained in good repair, defects cracking potholes reported and repaired by maintenance team or a building contractor.</li> </ul>	
Noise from small vehicles travelling to & from farm Mobile source	Farmworkers, visitor's cars, courier van deliveries all considered to be low risk	<ul> <li>Restricted to normal working times 07.00-23.00 hours in working week Monday to Friday and Saturday morning but exclusive of public and bank holidays in accordance with How to comply.</li> <li>Farmworkers arrive sooner to start work at 07.00 and can start work 06.00 in warm weather.</li> <li>Everyone instructed to drive cars, vans into parking area without excessive noise.</li> <li>Speed restriction onsite 5mph.</li> </ul>	
Noise from feed transfer into bulk silos Fixed source	<ul> <li>Engine noise from vehicle &amp; blower</li> <li>Loud-very loud &amp; intrusive</li> </ul>	<ul> <li>Restricted to normal working times 07.00-23.00 hours in working week Monday to Friday and Saturday morning but exclusive of public and bank holidays in accordance with How to comply. Outside these times in event of extraordinary circumstances, delays, breakdowns, availability only.</li> <li>Large capacity trailers minimise number of deliveries.</li> <li>Silos installed in pairs in between pig houses so delivery movements and handling onsite is reduced.</li> <li>Blow feed from tip-up trailers is noisy, short duration typically less than an hour .</li> </ul>	

Table 2. Routine actions and contingency	actions to minimise noise an	d noise risks at Feltwell Farm Pig Unit

issue	problems	
		<ul> <li>Blow feed over as short a distance as possible.</li> <li>Feed delivery into and distribution out of silos on northside benefit from screening effect of buildings provide noise barrier between delivery points, augers, and receptors. Not on southside, but delivery is most noisy activity and short duration typically less than an hour to complete a delivery.</li> <li>Delivery monitored by driver and blower switched off in between each delivery point and soon as empty.</li> <li>Well maintained units and bulk trailers are expected of haulage contractors to minimise noise.</li> </ul>
Noise from automatic feeding equipment Fixed source	<ul> <li>Location of silos</li> <li>Feed distribution</li> <li>Very faint-faint noise</li> </ul>	<ul> <li>Good package feed distribution system installed, silos, sealed flexible pipes with augers and automatic, constant supply into pig feeders inside houses.</li> <li>Augers on northside benefit from screening effect of buildings provide noise barrier between augers, and receptors.</li> <li>Farmworkers check feed level in silos every day to avoid hungry pigs, empty augers otherwise will be running empty continuously, noticeable at night time.</li> <li>Augers will be running more frequently as pigs grow</li> <li>Preventive maintenance programme includes farm workers check pig feeding equipment is working properly during walk through checks and opening up every day. Repair minor faults or callout maintenance team, or electrical contractor. Inspect and maintain equipment with maintenance team or contractors in accordance with manufacturers or suppliers' instructions and keep records.</li> </ul>

Contingency actions to minimise noise and noise risks

#### Table 2. Routine actions and contingency actions to minimise noise and noise risks at Feltwell Farm Pig Unit Routine actions to minimise noise and noise risks

Noise related

Potential risks and

Noise related issue	Potential risks and problems	Routine actions to minimise noise and noise risks	Contingency actions to minimise noise and noise risks
Noise from pigs inside	Not considered probable cause for annoyance.	Feeding pigs ad-libitum 24/7 avoids behaviours and squealing in anticipation of feeding.	
Noise from ventilation fans on roof Fixed source	<ul> <li>Noisy, out of balance or worn fans</li> <li>Faint-moderate audible tonal noise fans running continuously especially in warm weather</li> </ul>	<ul> <li>Good professional designed and installed forced high velocity ventilation systems in pig houses.</li> <li>Selected package fans on roof considered to be low noise relative to typical rural background noise.</li> <li>Package fan inlets, attic sections, lead throughs and uncapped, plastic outlet cones minimise fan noise.</li> <li>Computer controlled automatic ventilation, uses small number of fans running continually at high-speed rather than more fans switching on and off.</li> <li>Individual fans can be switched off when faults occur</li> <li>Preventive maintenance programme includes farm workers check fan settings, and for faulty, noisy fans, during walk-through checks start of every day. Repair minor faults or callout maintenance team, or electrical contractor. Inspected &amp; maintained by maintenance team or contractor in accordance with manufacturers or suppliers' instructions and keep records.</li> <li>Any alarm system installed gives warning of failure high temperature via mobile phones, noise will not exceed level required to alert persons onsite.</li> <li>Fans &amp; housing cleaned during washout.</li> <li>Fans switched off when house is empty.</li> </ul>	Fan repaired, replaced, normal noise levels.

Table 2. Routine actions and contingency actions to minimise noise and noise risks at Feltwell Farm Pig Unit

Noise related	Potential risks and	Routine actions to minimise noise and noise risks	Contingency actions to minimise noise and noise risks
issue	problems		
Noise from pigs loading (In&out) Fixed source	<ul> <li>Pigs squealing</li> <li>Loud-very loud &amp; intrusive</li> </ul>	<ul> <li>Generally restricted to normal working times 07.00-23.00 hours in working week Monday to Friday and Saturday morning but exclusive of public and bank holidays in accordance with How to comply. Also have to load pigs out before 07.00 at night time and on public and bank holidays but latter rarely happens. To fulfil factory requirements, expect approx. half of all the pigs to be loaded out before 07.00.</li> <li>Qualified, farmworkers drivers responsible for loading &amp; unloading. Careful handling to minimise excitement, stress, and pigs quickly settle down in trailers.</li> <li>Short duration of noise as pigs loaded quickly.</li> <li>Loaded trailers promptly moved offsite.</li> <li>Well maintained units and livestock trailers are expected of haulage contractors to minimise noise.</li> </ul>	
Noise from washout Mobile source	<ul> <li>Engine noise</li> <li>Faint-moderate clearly audible noise</li> </ul>	<ul> <li>Restricted to normal working times 07.00-23.00 hours in working week Monday to Friday and Saturday morning but exclusive of public and bank holidays in accordance with How to comply. Outside these times in event of extraordinary circumstances, delays, breakdowns, availability only.</li> <li>Park tractors and pressure washers inside or behind buildings. Walls of buildings provide noise screening and barrier between tractors, pressure washers and receptors.</li> <li>Rinse down first before washout to reduce duration.</li> </ul>	

Table 2. Routine actions and contingency actions to minimise noise and noise risks at Feltwell Farm Pig Unit

Noise related issue	Potential risks and problems	Routine actions to minimise noise and noise risks	Contingency actions to minimise noise and noise risks
Noise from loading slurry Mobile source	<ul> <li>Engine noise</li> <li>Moderate-loud noise</li> </ul>	<ul> <li>Restricted to normal working times 07.00-23.00 hours in working week Monday to Friday and Saturday morning but exclusive of public and bank holidays in accordance with How to comply. Outside these times in event of extraordinary circumstances, delays, breakdowns, availability only.</li> <li>Abstractions from lagoon likely over several days to empty or reduce quantity stored. Short-duration activity each load takes less than an hour. Exported offsite to another farming business for use as organic nitrogen fertiliser and soil conditioner mostly to be expected in spring &amp; late summer.</li> <li>Buildings onsite generally provide significant physical barriers to noise at sensitive receptors.</li> </ul>	
Repairs	<ul> <li>Ordinarily not considered probable cause for annoyance</li> <li>Loud-very loud &amp; intrusive</li> </ul>	<ul> <li>Restricted to normal working times 07.00-23.00 hours in working week Monday to Friday and Saturday morning but exclusive of public and bank holidays in accordance with How to comply. Outside these times only in event of extraordinary circumstances, delays, breakdowns, availability.</li> </ul>	<ul><li>Extraordinary noisy work, vehicles onsite.</li><li>Noisy work outside normal working times.</li></ul>

Table 2. Routine actions and contingency actions to minimise noise and noise risks at Feltwell Farm Pig Unit

Noise related issue	Potential risks and problems	Routine actions to minimise noise and noise risks	Contingency actions to minimise noise and noise risks
Monitoring noise	Monitoring can help identify any increase in noise levels with time so remedial action can be taken to avoid risk of causing annoyance.	<ul> <li>Farm Manager responsible for site tour every day including perimeter monitoring for any abnormal elevated noise level with potential to cause annoyance offsite.</li> <li>Check routine and contingency actions to minimise noise and risks being adhered to.</li> <li>Health, Safety, Environmental &amp; Welfare Manager monitoring noise level in accordance with a schedule and recording every 3 months using calibrated digital decibel meter. More frequently, for example weekly, daily, to investigate risk of causing annoyance.</li> </ul>	<ul> <li>Extraordinary noisy activities.</li> <li>Abnormal higher than normal noise levels.         <u>Timeframe for implementation</u> </li> <li>Immediate, same day.         <u>Contingency action</u> </li> <li>Check actions contingency actions being adhered to.</li> <li>Investigate causes arrange any repairs to reduce noise</li> </ul>
Complaint	<ul> <li>Noise sensitivity likely to increase in warm weather when people want to enjoy their gardens and have windows open more.</li> <li>Slow response</li> <li>Elevated level of annoyance.</li> </ul>	<ul> <li>Farm Manager and Health, Safety, Environmental &amp; Welfare Manager responsible for investigating noise complaint reported by Agency, local authority, or seriously affected sensitive receptor on same day on normal working days Monday to Friday.</li> <li>Investigate if noise complaint can be substantiated. If noise no longer apparent investigation must still be carried out and recorded same day:-</li> <li>Attempt to establish time noise occurred, duration, description of noise.</li> <li>Activities taking place onsite at time of complaint.</li> <li>Noisy activities taking place offsite in vicinity.</li> </ul>	<ul> <li><u>Contingency action</u></li> <li>Investigate if alleged noise can be substantiated. Even</li> </ul>

 Table 2. Routine actions and contingency actions to minimise noise and noise risks at Feltwell Farm Pig Unit

 Noise related
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 Routine actions to minimise noise and noise risks
 Contingency actions to minimise noise and noise risks

Noise related issue	Potential risks and problems	Routine actions to minimise noise and noise risks       Contingency actions to minimise noise and noise risks
		<ul> <li>Record all details of investigation and action taken on noise complaint report. A copy must be sent to Health, Safety, Environmental &amp; Welfare Manager at Wayland Farms Ltd immediately and must be retained onsite &amp; available for future reference, or inspection with Agency.</li> <li>Investigation may involve identification and cessation of an activity causing complaint, for example replace noisy plant, use straw bales for temporary screening noise barrier, provided no fire risk.</li> <li>Duration of action</li> <li>Investigation likely achievable same day, next day.</li> <li>Cessation of action</li> <li>Notify Agency, local authority, complainant, anyone else likely to be seriously affected, same day as soon as possible result of investigation and corrective action or what still needs to be done with timescales</li> </ul>
Review	Changes to be documented	<ul> <li>Health, Safety, Environmental &amp; Welfare Manager responsible to review NMP every 12 months. Sooner where a substantiated complaint resulted in making change to noise related issues for example new source of noise, change in operating procedures, routine action, and contingency action to minimise noise or risk of noise.</li> </ul>
Change history	Date	Name
Last updated	02 August 2024	
Last review	31 January 2023	
Next review	30 January 2024	-
receptors for b 31/05/24 Adde	ected grid refence for a ungalows in a terrace. ed agricultural premise	an existing receptor and identified 2no. additional sensitive es (a poultry farm) and a residential dwelling in the same
• •	01	other within 400m of Airfield Fm. Added a reference to the ot owned by the operator or occupied by workers at Airfield,

## Table 2. Routine actions and contingency actions to minimise noise and noise risks at Feltwell Farm Pig Unit

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Noise related	d Potential risks and	Routine actions to minimise noise and noise risks	Contingency actions to minimise noise and noise risks
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issue	problems		
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Feltwell or Methwold (Breckland) Fm. Corrected the post codes for all the dwelling houses at Feltwell Fm. 23/05/24 Removed reference to noise from a backup generator, not required permanently onsite. 31/01/23 Updated NMP in orthodox template, added more noise related issues, actions and

contingency actions in preparing to apply to vary permit for new development, demolition of old buildings and erect new rearing houses, straw barn.

# Noise Complaint Report

Date	
Reference number	
Name and address of complainant	
Telephone number of complainant	
Time and date of complaint	
Date, time, and duration of offending	
noise	
Weather conditions	
(e.g., dry, rain. Fog, snow)	
Wind strength and direction	
(e.g., light, steady, strong, gusting)	
Callers' description of noise	
(e.g., hiss, hum, rumble, continuous,	
intermittent)	
Has the caller any other comments	
about the offending noise?	
about the orienting holse!	
Any other previous known complaints	
relating to the installation (all aspects, not just noise)	
not just hoise)	
Any other relevant information	
Potential noise sources that could give	
rise to the complaint	
Operating conditions at the time	
offending noise occurred	
Actions taken	

Final outcome			
Complement visited			
Complainant visited			
Complainant contacted with			
explanation			
Yes/No			
Date			
By whom			
Form completed by	Date:	Signed:	