

# Carrick's Farm

## Summary of Environmental Management System

### The Environmental Management System (EMS) in place includes the following:

- 1) Implementing Environment Agency's Environmental Permit Regulations (EPR) 'How to Comply' document (version 2)
- 2) Red Tractor Assurance for pigs
- 3) Stock movement and numbers on site are recorded as per statutory requirements (Nitrate Vulnerable Zones (NVZs), The Pigs (Records, Identification and Movement) Order 2011 (PRIMO) and eAML2), broiler movements through the Soanes Poultry Group
- 4) Manure management arrangement complies with nitrates regulations requirements
- 5) Storage on the associated arable unit complies with the Silage, Slurry and Agricultural Fuel Oil regulations (SAFFO)
- 6) Manure Management Plan is implemented
- 7) Odour Management Plan is implemented
- 8) Noise Management Plan is implemented
- 9) Staff are trained and are aware of their, and any contractors' responsibilities.

In addition to the above, the EMS includes the following Annexes:

2a	Complaints Procedure
2b	Site Closure
2c	Pollution Incident
2d	Raw Material Log
2e	Maintenance Checklist
2f	Emergency Action Plan
2g	Waste Removal Log
2h	Training Record

### Normal operations

- Daily records are kept on all aspects of the farm's operation including:
  - Pig movements
  - Feed consumption and deliveries
  - Delivery of goods and materials
  - Medication
  - Mortalities
  - Temperatures of areas within pig housing
- Weekly records of water and fuel consumption are kept
- Staff carry out daily inspections of the site to ensure all plant is operating correctly
- The farm manager reviews information and operation frequently with staff, to identify any unexpected or abnormal changes in operation and agree suitable remedial action if necessary.

## **Maintenance schedule and records**

A programme of planned preventative maintenance is carried out on all plant equipment including:

- Ventilation equipment
  - Sensors and detectors
  - Feed and water systems
  - Carcase incinerator
- Inspections and maintenance schedules are based on the manufacturer recommendations
  - Generators are tested weekly to ensure they are working properly
  - Ventilation fail-safes are tested in accordance with relevant regulations
  - Buildings and equipment on site are inspected weekly and checked for visual signs of leakage, corrosion and structural damage, security and correct operation. Anything found is placed in the diary. An annual inspection is carried out by the manager (appendix 2e)
  - A record of all faults, maintenance work and inspections is kept in the farm office. Details can be found in the diary on each site.

## **Incidents and abnormal operations**

Measures are in place to identify incidents and abnormal operations such as breakdowns, damage, etc. Staff are trained to notice and respond to abnormal changes in operation by investigating the causes. They then either take steps to get back to normal operation and ensure the problem does not reoccur or report issues that cannot be immediately addressed.

Incidents are recorded in the site diary and pollution incidents are recorded on a sheet found in Appendix 2c.

A copy of the permit is available and accessible for staff to read. Staff have been given training on the potential environmental impacts of the unit and their role in ensuring environmental impacts are minimised.

## **Complaints system**

Complaints relating to the farms activity are logged and referred to the farm manager for investigation and follow up action (a copy of the form to be used can be found on in Appendix 2a). A record is kept of any remedial action to prevent or minimise the causes and staff will also respond to concerns raised by the local community as appropriate.

We have in place a site identification notice at the entrance of the site clearly visible from a public highway in accordance with '*How to comply with your environmental permit for intensive farming Version 2 2010*'. The sign notifies neighbours and members of the public about the nature of the farm who they can contact for further information or to notify a concern.

## **Accidents**

The site has an Accident Management Plan in Appendix 2f. Events or failures that could damage the environment have been identified in the Environmental Risk Assessment (Appendix 4). A back up copy of the Accident Management Plan can be found in every office, and in the farmhouse in the event that the office is inaccessible in an emergency. All staff are aware of the location and content and their responsibilities in the event of an accident.

## **Training and qualifications**

- All staff are suitably qualified to work at the installation
- All staff receive formal training from both the farm manager and external training providers, which includes making them aware of their (and contractors') roles and responsibilities
- All staff have received formal training on Health and Safety, the accident management plan and will be trained about the requirements of the environmental permit and pollution prevention

- New staff are mentored as part of their 'on the job' training
- Staff and contractors have defined roles and understand what is required of them and what others will carry out
- Training and instruction of staff and contractors is recorded in the training plan; the training plan is kept in the site office
- As a Red Tractor Assured farm, key staff are registered members of the Pig Industry Professional Register (PIPR)
- A competency log can be found in Appendix 2h

### Site security

- The site has a secure perimeter fence and it is well hidden from the nearby road by trees and a hedgerow
- Sheds, stores, tanks and equipment are securely locked at night
- The site is due to have a gate fitted
- The fuel oil tanks and LPG tanks are secure and locked
- Signs are placed around the perimeter to warn people against entering the site
- There is no public footpath through any part of the site.

### Energy efficiency

Energy usage at Carrick's Farm is as follows:

Energy source	Use
Electricity	Lighting, ventilation, computer control systems, feed augers, water pumps.
Bottled gas	Used three days a year to heat rooms before pigs come in
Diesel – gas oil	standby generator, pressure washer and vehicles.
Kerosene tank	Incinerator

### Basic energy requirements

#### Heating

- Blower heater used to heat rooms before entry of pigs
- Insulation is at highest specification for pig buildings

#### Electricity

- The ventilation fans in all sheds have been selected so that they are the appropriate power and size for the age and number of animals housed
- The computer systems control the ventilation for maximum efficiency
- The fans are low energy and are regularly maintained and cleared of debris
- All lighting is LED and are on timers

#### Fuel oil

- The standby generator is visually inspected, as per the maintenance schedule, to ensure they operate efficiently. The oil tanks, associated pipe work and bunding are visually inspected weekly
- Vehicles and tractors are serviced by a contractor at recommended service intervals

- All staff and contractors employed on site are trained in the efficient use of equipment, including driving techniques. Training needs are reviewed annually and as new equipment or techniques are introduced
- Energy usage is recorded. In accordance with the permit, energy efficiency and usage will be reviewed every four years. Opportunities to improve energy efficiency will be implemented if suitable.

**Further potential improvement measures include:**

- Installing more energy efficient equipment and controllers, as appropriate,

**Efficient use of raw materials**

- Types and amounts of raw materials used on farm are listed in the Raw Materials Inventory; this is appended to the Accident Management Plan (B3.5 3c)
- Product safety sheets should be attached to this form
- The raw materials inventory will be reviewed every four years to identify opportunities for reducing usage or substituting materials that are less harmful.

**Minimising water use**

- Water is measured monthly by a water meter on the mains supply and borehole. Water usage is closely monitored; any significant fluctuations will be investigated by the farm manager and remedial action taken
- A water efficiency audit will take place within two years of the permit issue. An action plan to reduce water use will be agreed as a result. Water use will then be reviewed every four years.

**Avoidance, recovery and disposal of wastes**

All wastes are removed by Bruntons and the council a log can be found in Appendix 2g.

Within two years of the permit being granted, a waste minimisation review will be undertaken to take into account the waste hierarchy and to identify whether appropriate measures to ensure that minimal waste is produced need to be updated and changed.

The methodology for this review and an action plan for reducing the use of raw materials will be submitted within two months of completion of the review. For wastes which are technically and financially impossible to recover, such as sharps, vaccines, veterinary materials, including gloves and ABP, these are collected by Garth vet for disposal.

**Inspection and maintenance schedule**

Records are kept of inspection and maintenance of farm structures and plant. The annual checklist can be found in Appendix 2e. Staff report any problems encountered and actions taken on a daily basis directly to the pig unit manager. A record is made in a diary kept in the Farm Office. This is reviewed daily by the person with overall responsibility for the site for that day and appropriate action implemented.

Structures and equipment are inspected monthly. The inspection and maintenance programme covers the following areas:

- Building structures and yards; includes structural integrity, water system, electrical systems (including ventilation and fail-safes), roofs, drainage systems, gutters and downpipes
- Emergency generator
- Slurry system; includes reception pit, tanks and associated pipework
- Dirty water reception pit
- FYM middens
- Medicines/chemical stores; includes bunding and security arrangements
- Fuel storage tanks and pipework; includes bund integrity and security arrangements

- Feed storage silos, bins and tanks; includes bund and collision protection integrity as applicable
- Feed delivery pipework/systems
- Incinerator
- Swales/soakaways.



# Environmental Management System Appendix 2a: Carrick's Complaints Record

## Intensive Farming General Complaint Form

<b>Name of farm</b>	
<b>Time and date of complaint</b>	<b>Name and address of complainant</b>
<b>How complaint was received, eg telephone call, visit, etc?</b>	<b>Email address of complainant</b>
<b>Who first received the complaint?</b>	<b>Telephone number of complainant</b>
<b>Who was the complaint reported to for further action?</b>	
<b>Type of complaint</b> ( <i>give all relevant details – use space overleaf if necessary</i> )	
<b>Describe the activity which was happening at the time of the complaint</b> ( <i>include names of any relevant staff</i> )	
<b>Any other relevant information</b>	



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## Environmental Management System Appendix 2a: Carrick's Complaints Record

**Are there any other complaints relating to the installation or that location? (If yes, give details)**

**Actions taken and by who**

**Form completed by**

**Signed**

**Date**

**Intensive Farming General Complaint Form**

Type of complaint continued...



## Environmental Management System Appendix 2b: Carrick's Farm Site

### Closure/decommissioning plan

#### Site closure/decommissioning plan

##### **Purpose**

This plan indicates how buildings, infrastructure and any remaining manures and wastes will be dealt with when a site is closed or decommissioned.

The plan would also include a record of any pollution incidents, such as spillage of oil, leaking stores, etc. which have occurred during the operation of the permitted site, together with the steps taken to remedy that pollution at the time. This will help to establish whether the site is in a satisfactory state when the permitted Schedule 1 Activity (pig production) ceases and the EPR/IPPC Permit is surrendered.

##### **Methodology**

Buildings, stores and facilities which are to remain in place will be cleaned thoroughly internally and externally to avoid any potential risk of pollution. If these buildings, stores or facilities are to continue in use for activities for which the Permit is no longer required, a suitable programme of works and timescale for completion will be agreed in writing with the Environment Agency to achieve the best environmental outcome and to minimise waste.

Wastes, including unused chemicals, asbestos and oils, will be disposed of following the Duty of Care. Manure, slurry and dirty water stores will be emptied as appropriate with the contents applied to land for agricultural benefit.

Where possible, unused livestock feeds will be collected and fed to suitable livestock elsewhere. Spoilt and surplus feedstuffs, and feedstuffs that cannot be recovered by feeding to stock, will be mixed with slurry or manure as appropriate and used in accordance with the methods already stated.

Infrastructure dedicated to the livestock named in the permit will be removed or taken out of use if no immediate further use is required for it on that site. Buildings will be cleaned and secured if their use is no longer required. This plan will be maintained on site, updated as circumstances change and will be reviewed every four years. Please refer to the Site Layout, Site Drainage and Site Services plans and Site Condition Report for further details.





## Environmental Management System Appendix 2c: Carrick's Farm Site Pollution Incident Record

### Pollution Incident Record

<b>Date of incident</b>	<b>Description of the incident</b> <i>Include any EA case number and name(s) of EA officers in attendance, if applicable</i>	<b>Action taken</b>	<b>Signature</b>



## Environmental Management System Appendix 2c: Carrick's Farm Site Pollution Incident Record

<b>Date of incident</b>	<b>Description of the incident</b> <i>Include any EA case number and name(s) of EA officers in attendance, if applicable</i>	<b>Action taken</b>	<b>Signature</b>



## Environmental Management System Appendix 2d: Carrick's Farm Raw Materials

### Types and amounts of raw materials

Inventory of raw materials	Justification for use of this material	Quantity used (litres or kg per year)	Quantity stored on site (litres or kg per year)
<b>a) Biocides</b> ( <i>includes disinfectants, wood preservatives, slimicides</i> )			
Defra approved disinfectant	Disease control	400 litres	10 litres
<b>b) Pesticides</b> ( <i>includes herbicides, fungicides, insecticides, vertebrate control products</i> )			
Rat/mouse poison	Pest control	45kg	15kg
Flykiller - spray	Pest control	2 litres	1 litre
Round-up	Pest control	5 litres	Just in time
Maggot killer	Pest control	180kg	40kg
<b>c) Veterinary medicines</b> ( <i>excluding dietary additives</i> )			
Pigs: Prescription-only antibiotics (solid)	Disease control	6kg (dependant)	5kg
Pigs: Prescription-only antibiotics (liquid)	Disease control	20 litres (dependant)	5 litres
<b>d) Diesel</b>			
	Pressure washer	50 litres	Just in time
	Incinerator	300 litres	
	Grounds maintenance Blowing sheds	50 litres	Just in time



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## Environmental Management System Appendix 2d: Carrick's Farm Raw Materials

NB. All are estimates

Paper copies of the product safety sheets should be found on site



# Environmental Management System Appendix 2e: Carrick's Farm Maintenance Checklist

Facility	Date	Remedial Work Required	Date Carried Out	Signature



## Environmental Management System Appendix 2e: Carrick's Farm Maintenance Checklist

All areas should be thoroughly checked for: cracks, damage, safety and efficiency on a six monthly basis.



## Environmental Management System Appendix 2f: Carrick's Farm Accident/Emergency Action and Management Plan

<b><u>Emergency Type</u></b>	<b><u>Action to be taken</u></b>
Loss of borehole water	<ul style="list-style-type: none"> <li>• Switch to mains – tap located underneath sink unit</li> <li>• Contact borehole engineer – Ralph 07976 634802</li> </ul>
Loss of mains water	<ul style="list-style-type: none"> <li>• Switch to borehole water</li> <li>• Contact Yorkshire Water</li> </ul>
Loss of ALL water	<ul style="list-style-type: none"> <li>• Water will be used from store tank</li> <li>• Contact Yorkshire Water, 0345 1 24 24 24 / Borehole engineer</li> </ul>
Loss of feed	<ul style="list-style-type: none"> <li>• Feeders to be run manually</li> <li>• If mechanical problem, call Malc on 07831 332081</li> </ul>
Unsatisfactory feed	<ul style="list-style-type: none"> <li>• If problem with feed contact Ed Brockenbow from ABN on 07540 819094</li> </ul>
Loss of ventilation	<ul style="list-style-type: none"> <li>• With electrical failure – generator will back up supply</li> <li>• Open vents and fans manually to ensure adequate airflow through the shed</li> <li>• Contact engineers – BCM Walker 01262 488269</li> </ul>
Loss of electricity	<ul style="list-style-type: none"> <li>• Generator will automatically back up lost supply</li> <li>• Ensure there is enough diesel in tanks</li> <li>• Make a note of when power was lost</li> <li>• Contact Electricity board, EON 0800 068 5523 with details</li> </ul>
Temperature raise	<ul style="list-style-type: none"> <li>• Turn on all fans and open all side vents to maximum</li> <li>• Open doors if still too warm</li> </ul>
Temperature drop	<ul style="list-style-type: none"> <li>• Close fans with shutters</li> <li>• Check gas, call Northern Energy on 01423 770666</li> </ul>

### **Contacts**

<b>Name</b>	<b>Number</b>	<b>Position / Reason</b>
Emily Field	07766 335661	
Tim Field	07977 441256	
Local Services	01377 254180	East Riding
A Hughes and Son	01522 682626	Waste Disposal Contractor
Dennis	01262 470 254	Plumber
BCM Walker	01262 488 269	Electrician
Malc	07831 332081	Mechanic



## Environmental Management System Appendix 2f: Carrick's Farm Accident/Emergency Action and Management Plan

**Identify the emergency, assess if “emergency services” need to be called – if in doubt dial 999.**

<b>Emergency Type</b>	<b>Action to be taken</b>
Environmental Emergency	<ul style="list-style-type: none"> <li>• Call the environmental Incident Hotline on 0800 80 70 60 (UK)</li> </ul>
Flood	<ul style="list-style-type: none"> <li>• Call Floodline on 0345 988 1188</li> </ul>
Fire	<ul style="list-style-type: none"> <li>• Call emergency services on 999</li> </ul>
Minor Injury	<ul style="list-style-type: none"> <li>• Remove injured person from any further danger</li> <li>• Contact nearest First Aid Trained Personnel:               <ul style="list-style-type: none"> <li>○ Emily 07766335661</li> <li>○ Sara 01262 470268</li> <li>○ Any of pig staff</li> </ul> </li> <li>• Take to hospital.</li> <li>• Report in accident sheet</li> </ul>
Major Injury	<ul style="list-style-type: none"> <li>• Remove injured person from any further danger</li> <li>• Call Emergency Services on 999</li> </ul>
Disease Outbreak	<ul style="list-style-type: none"> <li>• If high mortality or loss of production on site, contact vet, Garth (Pigs) on 01262 488323</li> <li>• Use different protective clothing for contaminated shed.</li> <li>• If disease outbreak on local farm: follow advice from AHVLA.</li> <li>• No visitors on site.</li> </ul>
Media / animal activists on site	<ul style="list-style-type: none"> <li>• Be polite at all times</li> <li>• Refer to Emily, 07766335661</li> <li>• Report to police and Red Tractor press department, 020 8960 8950, if necessary</li> </ul>





## Environmental Management System Appendix 2g: Waste Removal Record

<b>Date of Removal</b>	<b>Description of the waste</b>	<b>Removed by (Company)</b>	<b>Signature</b>



## Environmental Management System Appendix 2h: Staff Training

<b>Biosecurity</b>	Name	Signed	Name	Signed	Name	Signed	Name	Signed	Name
Understands/implement unit biosecurity arrangements									
Aware of pig movement legislation									
Can describe ways disease may be transmitted									
Can describe/identify signs of ill health									
Understands own role in maintaining pig health									
Can take appropriate action when disease is suspected/injuries noted									
Understands unit animal health plan									
Understands health status of unit									
Understands driver/staff biosecurity plans									
Understands need and use of isolation unit									
<b>Health and Safety</b>									
Understands indications of human contamination									
Understands own response to accidents									
Knows location of product data sheets/COSHH									
Understands accident reporting procedures									
Can provide basic support/assistance									
Uses appropriate PPE									
Understands RIDDOR regulations									
Can check that all equipment to be used is safe									
Can use ladders safely									
Can work safely at height									
Can work safely in confined spaces									
Can conduct manual lifting safely									
Can move/handle stock safely									
Aware of unit emergency action plans									



## Environmental Management System Appendix 2h: Staff Training

<b>FIRE SAFETY</b>									
Understands unit emergency procedures									
Knows unit fire/incident collection point									
Knows position of fire alarm points/extinguishers									
Knows identification of different fire extinguisher colouring and use									
<b>ENVIRONMENTAL UNDERSTANDING</b>									
Understands site's consequence on environment									
Understands IPPC folder									
<b>Vehicle Training</b>									
Bobcat									
Forklift									
Merlot									
Trailer									



## Environmental Management System Appendix 2h: Staff Training



## Environmental Management System Appendix 2i: Climate Change Risk Assessment

Potential changing climate variable	A Impact	B Likelihood	C Severity	D Risk (B x C)	E Mitigation (what you'll do to mitigate this risk)	F Likelihood (after mitigation)	G Severity (after mitigation)	H Residual risk (F x G)
1. Summer daily maximum temperature may be around 7°C higher compared with average summer temperatures now.	May affect pig comfort, and food intake and growth	2	1	2	<p>Keep a log of any hot days that occur each year.</p> <p>Keep a log of temperature in pig sheds.</p> <p>Ensure extra space is provided per pig, to allow pigs to lie away from each other.</p> <p>Ensure all vents/windows are open to allow airflow.</p>			
2. Winter daily maximum temperature could be 4°C more than the current average.	No negative impact expected.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3. The biggest rainfall events are up to 20% more intense than current extremes (peak rainfall intensity)	<p>a) Surface water drainage system overloaded.</p> <p>b) Washout of fines into water course.</p>	<p>a) 2</p> <p>b) 2</p>	<p>a) 3</p> <p>b) 2</p>	<p>a) 6</p> <p>b) 4</p>	<p>a) Drains and deep pit managed.</p> <p>b) Plenty of space for slurry to be stored in an emergency including storage off site</p>	a) 2	a) 2	a) 6



## Environmental Management System Appendix 2i: Climate Change Risk Assessment

	c) Struggling to spread slurry if too wet							
4. Average winter rainfall may increase by 35% on today's averages.	Surface water drainage system overloaded.	3	2	6	Increase surface water storage capacity.	2	2	4
5. Sea level could be as much as 0.6 m higher compared with today's level	Inland site. Low impact expected.	3	1	3				
6. Drier summers, potentially up to 39% less rain than now.	Increased dust – less water to suppress.	4	1	4				
7. The flow in the watercourses could be 35% more than now at its peak, and 80% less than now at its lowest.	At low flow increased stress on the river at discharge point.	3	1	3				