Purpose & Objectives

The objectives for this Noise Management Plan (NMP) are:

- Identify all possible noise sources at the facility.
- Outline the noise prevention control and mitigation measures employed on site.
- Ensure all operating conditions (normal, abnormal and emergency) are considered in evaluating the risk of noise release.
- Commit to pro-actively monitoring noise emissions and in preventing impact on receptors, if deemed necessary.
- Reduce the risk of noise releasing incidents or accidents and planning for foreseeable potential events accordingly.
- Describe the contingency arrangements in place to prevent or react effectively to noise releases.

Management Plan Format

The structure of this management plan is as follows:

Receptor Identification - Detail of sensitive receptors, including those within 400 metres radius of the installation boundaries. The NMP will be used by Site Management when reviewing noise source impact and responding to complaints.

Noise Source Activities–

- Lists potential noise sources identified at the installation.
- Potential impacts from the noise sources are assessed and outcomes detailed within MWG-R02-F1 Environmental Risk Assessment (ERA). In summary, the ERA in terms of a noise impact assessment details:
  - The potential noise releases from site under normal operation.
  - The control measures employed by site to minimise the potential for noise release sources.
  - Abnormal scenarios leading to potential noise releases; and
  - Contingency plans in the event of abnormal scenarios occurring.

Overview of Noise Impact Controls – Table 3 details the key control measures and procedures in place to minimise the potential for noise generation from site.

Monitoring and Evaluation **–** This section of the NMP provides reference to any noise monitoring undertaken at site and complaint procedures should a noise complaint being received on site.

Environmental Management System (EMS) references to all associated EMS documentation are used throughout the NMP. The 'EM 00 System Index' should be consulted to cross reference to the latest Issue Number / Date.

Audit and Review

Site Management will review the NMP and associated procedures based on the frequency stipulated by the Environmental Permit or when the following occurs:

- Upon receipt of a series of sustained complaints that have been linked by Site Management or the Regulator to deficiencies in this NMP.
- Significant change to site infrastructure or operating techniques.

Reviews of the NMP and associated procedures are recorded on the EM 03-006 Audit and Document Review Form. Any improvements put into practice in terms of 'on-site' noise control techniques, will be implemented and recorded on the EM 03-001 Incident and Corrective Action Report From.

Guidance

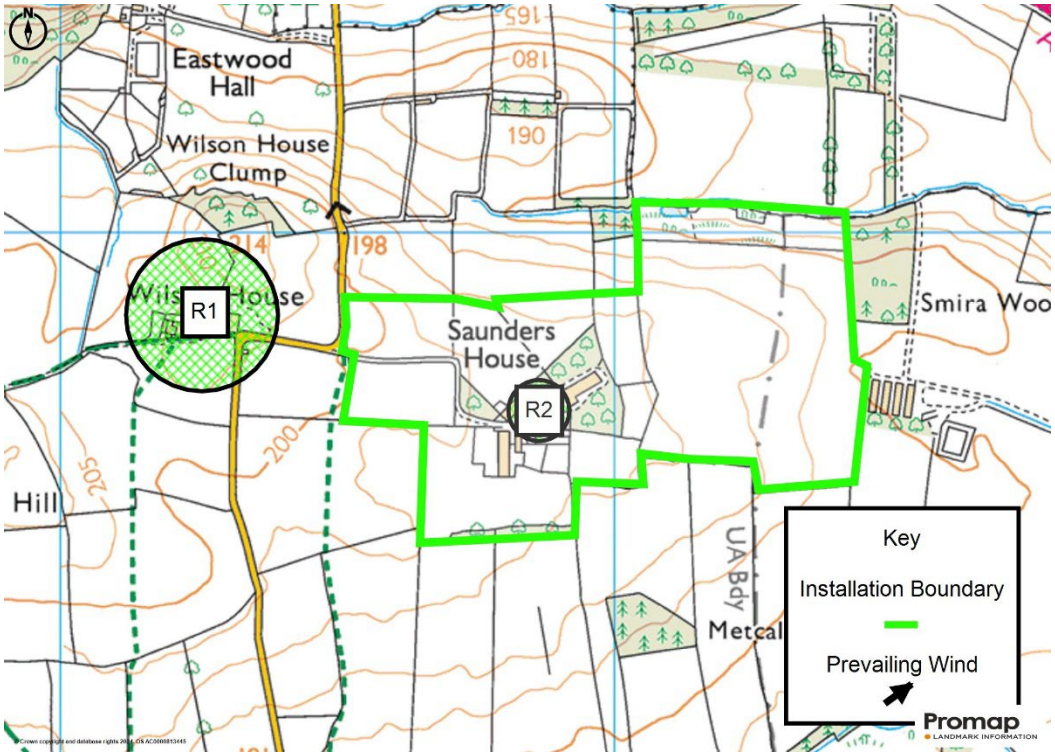
Table 1 outlines the sector guidance documents, and their relevant BAT requirements, considered when developing the NMP. Table1 will be updated as appropriate during the review process to ensure current Environment Agency guidance is applied.

Table 1 – Guidance Documents		
Reference	**Title**	**Document Issue Date / Version**
How to comply with your environmental permit for intensive farming.	Appendix 5 - Noise management at intensive livestock installations.	V1 - March 2011.

Site Setting and Receptor Identification

Saunders House is an intensive free range hen farm, located at Norbeck Bank, Rokeby, Barningham. The installation comprises of three hen units and an extensive ranging area. The Permitted area is approximately 83 hectares. The National Grid Reference for the centre of the site is NZ 08821 11661.

As shown on the Receptor Plan below and detailed on the associated receptor schedule in Table 2, the nearest human occupied sensitive receptor that is not associated with the farm is Wilson House, c.260 metres to the West.



Do Not Scale

Table 2: Summary of Sensitive Receptors Identified Within 400 metres			
Nature of Receptor	**Direction**	**Approximate Distance from the Closest Installation Boundary**	**Plan Reference**
Residential / Industrial / Commercial / Offices	W	c. 260 metres	**R1** – Wilson House
	On Farm	On farm	**R2** – Saunders House (Farm Property)

Source Material Inventory

- Feeding hens.
- Feed delivery.
- Livestock movements in and out.
- Clean down.
- Manure loading and transport.
- Delivery of supplies and materials.
- Ventilation fans.
- Vehicles operating within installation boundaries.

Pathways and Receptors

The pathway for all of the above sources is via the atmosphere. The prevailing wind direction is South Westerly. There are no downwind receptors within 400 metres of the proposed installation boundary. It should be noted that site have not received any complaints from neighbours relating to odour from the farm or associated operations.

Overview of Noise Impact Controls

Table 3 below details the key control measures and procedures in place to minimise the potential for noise generation from site.

Table 3 – Overview of Noise Impact Controls

Noise Source	Actions taken to prevent or minimise noise	Frequency of Implementation / Records
Feeding of hens.	• All feed systems are automated. No manual feeding. • PPM carried out in line with manufactures recommendations.	• On-going. Sound operation of feed silos and distribution systems checked as part of site infrastructure inspections.
Feed delivery	• Bulk delivery of feed to minimise number of deliveries - during normal working hours. • Blower and vacuum type delivery vehicles fitted with low noise units. • PPM carried out in line with manufactures recommendations.	• On-going. Feed delivered by suitably trained staff.
Livestock Movements (In and Out)	• Short duration of movement - during normal working hours. • Movements initiated and supervised by trained staff to minimise animal stress.	• On-going. Animals handled by train stocksmen to minimise stress to the bird.
Clean Down.	• Contractor vehicles used, engine revs kept low, effective silencer on exhaust systems. • Full clean down undertaken at the end of the production cycle, every c.15 months. - during normal working hours.	• On-going. Dedicated cleaning plan followed to ensure efficient clean down of the farm.
Manure loading/transport.	• Litter only collected on a weekly basis. • Engine revs kept low where possible. • All equipment regularly serviced and operated to current standards.	• On-going. Manure belt removal systems checked as part of site infrastructure inspections.
Delivery of supplies and materials	• Typically small deliveries during normal working hours by arrangement.	• On-going. Deliveries supervised where required.

Table 3 – Overview of Noise Impact Controls		
Noise Source	**Actions taken to prevent or minimise noise**	**Frequency of Implementation / Records**
	• Low perceived impact.	
Ventilation fans	• Variable speed fans with automatic controllers set to maintain optimum environmental conditions within buildings. • Efficient fan types selected. • Regular maintenance and cleaning takes place.	• On-going. Performance of ventilation checked by Stockmen on daily basis.
Vehicles operating within installation boundaries	• Operations mainly carried out during normal working hours. • Vehicles maintained in accordance with manufacturer's recommendations and defective silencers replaced. • Audible reversing signals required for safety purposes. • Holes in roads and yards to be repaired.	• On-going. Site speed limit enforced and roadways inspected and maintained as part of the site infrastructure monitoring program.