
Manure Management Plan

Erection of a free range egg
production unit including silos
and associated works at
Crugnant Farm, Sarn Meyllteyrn,
Pwllheli

Prepared for Messrs Parry



land & property
professionals

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Manure Management Plan for Crugnant Farm, Sarn Meyllteyrn, Pwllheli, Gwynedd.

This manure management plan has been prepared for Messrs Parry of Crugnant Farm, Sarn Meyllteyrn, Pwllheli, Gwynedd. LL53 8DT.

The farm extends to approximately 289.55 hectares which is owner occupied. The farm currently has 200 suckler cows, 850 breeding ewes and 32,000 free range chicken layers. The applicants currently buy in fertiliser to spread on the land, and therefore this will not be required if the application is successful.

The manure management plan has been prepared for the total stock of 200 cows, 850 breeding ewes and 64,000 laying hens.

Table 1 shows the minimum amount of land necessary for the volume of livestock proposed to be carried on the farm. This is estimated at 176.38ha of required land for the purposes of spreading.

The assessment shows a requirement of 176.38, and availability of 245.35 ha of land for spreading (277.35ha with ranging area). The farm has therefore sufficient capacity to dispose of all manure produced by all enterprises in accordance with all the relevant regulations and legislation.

The manure storage and disposal will also need to accord with DEFRA's Code of Good Agricultural Practice for the Protection of Air, Water and Soil.

Table 1

Stock Unit	Number of stock	Months housed	Hectares needed per stock	Total area required (ha)
1 suckler cow	200	6	0.019	22.8
1 sheep	850	2	0.003	5.1
1000 laying hens	64	N/A	2.32	148.48
Minimum land needed				176.38ha
Minimum land available to spread				245.35ha

Table 2 Manure spreading and deposition

Manure produced and spread				
Group	Kg N produced	No of animals	Total Kg N	Kg N (Year)
Sheep	12	850	10,200	10,200
Cattle over 24 months	83	200	16,600	16,600
Laying hens	0.55	64,000	35,200	35,200
Total N Produced				62,000 kg N
Spreadable Area & Ranging Area				277.35
Total N/Ha				223.5 kg N/Ha

Contingency plan - There are a number of covered areas on the farm to allow for storing any manure, slurry and dirty water produced at times when spreading may not be possible e.g. due to wet, waterlogged or frozen conditions in accordance with the Code of Good Agricultural Practice. This is to ensure manures and slurry are spread at appropriate times to prevent pollution and maximise uptake of nutrients for crop growth.

Wash water will be stored in a dirty water tank below ground which will be compliant with SSAFO Regulations (Wales) 2010 standards and be of sufficient capacity to cope with the build-up of wash water. Once this reaches capacity, it will either be spread on the land directly from a slurry tanker, or taken to the existing slurry pit, which complies with SSAFO regulations.

During and after a potential disease outbreak, the wash water from the unit will be collected by a specified waste services company or a permitted anaerobic digester, which would take the 'hazardous waste' off the farm and dispose of correctly. This will ensure any contaminated wash water/slurry from the outbreak will be kept separate from other manures/slurry on the farm.