
MANURE MANAGEMENT PLAN

Erection of a 32,000 Free Range Poultry unit, erection of feed silos, creation of vehicular access together with all other associated works

At

Frowen Farm

Login, Whitland, Carmarthenshire, SA34 0TP

Prepared for Anthony and Fairclough



land & property
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1. INTRODUCTION

The Manure Management Plan presented has been prepared to accompany the planning application of the farming business Anthony and Fairclough for the erection of a 32,000 bird Poultry Unit.

The Water Code states that, to reduce leaching losses from manures, you should not apply more than 250 kg per ha of total nitrogen in organic manures in any 12 months. However, these are guideline levels only and if a FACTS trained advisor can show that the crop requirements are higher the rates can be increased. The farm is not within a Nitrate Vulnerable Zone.

The farm land of Anthony and Fairclough extends to 145 acres of owner occupied land in total, including woodland. Some areas are not suitable for the application of manure. There is a further 125 acres of additional rented ground. Approximately 118.29 of spreadable ground is available to apply manure and slurry to all of which is owner occupied, this is subject to land to be excluded to meet the requirements of the relevant regulations.

2. PROPOSED DEVELOPMENT AND FARM STOCKING

The proposed development is for an erection of a further 32,000 bird free range poultry unit at Frowen Farm, Login, Whitland, Carmarthenshire, SA34 OTP. Presently there are 15 suckler cows and 700 breeding ewes. The business is currently having a change of policy in the sheep enterprise changing breed and reducing stock numbers to 500 ewes.

3. LAND AVAILABLE & HARVEST

We have analysed the Environment Agency flood plans for the land available for spreading of manure, and at appendix one of this report are found detailed maps annotating spreading areas.

Annually the farm business makes one cut of silage. Taking a cut of silage off the farm land results in a high requirement for organic manures to restore the nutrients to the ground.

4. STORAGE OF MANURE

All solid manure produced within the poultry unit will be removed every four days and directly spread upon the extensive land available at Frowen Farm if the nutrients are required. The majority of the year the manure will be placed directly into a sealed manure store. The applicants are applying for planning consent for the erection of a covered manure store on farm. Manure is removed from the poultry unit in a sheeted trailer.

5. MANURE APPLICATION

A Manure Management Plan has been produced at Appendix one. In addition to identifying no-spread areas, high risk areas and those areas of the farm that are suitable for applications of manures for most of the year, the plan should also assess the amount of land available to take the manures produced. The map should be colour coded: -

Red = No-spread areas, e.g. yards; within 10 metres of a watercourse or 50 metres of a borehole, spring or well used for drinking or parlour washings. Or Areas not normally used for operational reasons but may be brought into use in the future.

Orange = Very High Risk. Steeply sloping fields of gradients 1 in 7 to 1 in 5; fields at risk of flooding; sandy or shallow soil over fissured rock; fields where drains have been installed during the past 12 months; poorly drained or waterlogged land; severely compacted soils, etc.

Yellow = Moderate Risk. Slopes between 1 in 14 to 1 in 8; land sloping towards watercourses; imperfectly drained land.

Hatched Dark Green = Lower Risk with Caution. This land may have manure applied to it but care must be taken prior to application of manure, that no flood warnings have been raised or that excessive rainfall is forecast within 48 hours of the proposed application.

Green = Lower Risk. Remainder of land upon which manures are applied and which has not been subsoiled or mole ploughed within the past 12 months.

Field Number	Field Size (Ha)	Spreadable Area (Ha)	Non Spreadable Area (Ha)	Tenure
SN1924 2299	4.82	4.82		Rented
SN1924 1880	3.55	3.55		Rented
SN1924 3587	2.46	2.46		Rented
SN1924 2565	3.88	3.64	0.20 YY23, 0.04 ZZ31	Rented
SN1924 4277	2.31	2.31		Rented
SN1825 4501	5.75	3.89	1.26 BW1, 0.60 YY23	Owned
SN1824 3880	1.87	1.63	0.25 BW1	Owned
SN1824 3670	0.41		0.41 WS1	Owned
SN1824 3250	4.68	2.93	1.75 BW1	Owned
SN1824 4453	4.65	4.65		Owned
SN1824 5832	7.16	5.01	1.12 BW1, 0.03 ZZ31, 1.00 Range	Owned
SN1824 6692	2.37	2.37		Owned
SN1824 8182	3.61	3.61		Owned
SN1824 9170	3.57	3.51	0.06 ZZ89	Owned
SN1824 8834	1.84	1.00	0.84 Range	Owned
SN1824 5578	5.06	2.06	3.00 Range	Owned
SN1824 5855	3.47		3.47 Range	Owned
SN1824 7364	1.99		1.99 Range	Owned
SN1824 7548	3.53		3.53 Range	Owned
SN1824 9152	2.30		2.30 Range	Owned
SN1924 0357	1.68		1.68 Yard	Owned
SN1824 9743	0.98	0.43	0.48 WS1, 0.02 ZZ31, 0.05 ZZ89	Owned
SN1824 9533	0.49		0.49 WS1	Owned
SN1824 9226	0.20		0.20 BW1	Owned
SN1824 7822	3.12		2.78 BW1, 0.34 YY23	Owned
SN1824 5823	0.34		0.34 BW1	Owned
Total	76.09	47.87	28.23	

47.87 hectares or 118.29 acres of land is available for the application of manure.

Table 1 – Total N Calculation

Frowen Farm is not located within a Nitrate Vulnerable Zone, however in utilising the Nitrate Vulnerable Zone Wales Farmers Workbook, 2014 Edition the farm figures for nitrogen produced per annum are shown below. These figures are used as the most up to date Nitrogen figures available in Wales. The minimum amount of land needed for spreading slurry and manure is calculated in table 1 and is based upon the housing period of the livestock.

Suckler Cows at Frowen Farm are housed for six months of the year and are then out at pasture. The Sheep at Frowen Farm are housed for two months of the year. The Poultry shall be housed within the unit for the entire year but shall be grazing the poultry unit each day in rotation.

Type of Livestock	Number of Stock	Total N produced by each unit of stock (kg/annum)	Total N produced per annum	Total N produced by type of livestock whilst housed
Suckler Cows	15	83	1,245	622.50
Sheep	500	12	6,000	1,000
Poultry	32,000	0.55	17,600 (per fourteen month cycle)	15,085.71 (per annum)
TOTAL				16,708.21

Total Land Farmed	76.09 hectares
Total Land available for Spreading	47.87 hectares
Total Nutrients Available	11,967.5 kg N
Total Nitrogen produced on Farm	16,708.21 kg N
Difference between Nitrogen	-4,740.71 N

There is not enough land at Frowen Farm for the application of manure therefore the nitrogen shall be applied to the farmland at Frowen Farm in line with the Codes of Good Agricultural and Environmental Condition, Cross Compliance Regulations. Poultry manure will also be sold off to other local farmers. Anthony and Fairclough also have circa 82 acres of rented ground that they could apply poultry manure to in addition to the owned land and part rented shown above. Poultry manure is in demand as an organic fertiliser.

The table above page shows the total nitrogen produced over the housing period.

Good agricultural practice publications advise that a maximum of 250/kg a hectare of total nitrogen is applied to the ground through manures. Anthony and Faircolough plan to spread most of the manure at Frowen Farm with the excess sold off farm.

6.0 SPREADABLE AREA

The total land available for spreading manures is 47.87 hectares. Manure shall be spread directly onto this land if nutrients are required and if weather conditions permit. Manure shall be stored in the covered manure store proposed to be erected on farm.

7. MANURE STORAGE

PROPOSED MANURE STORE

Manure in the worst case can be stored in the proposed manure store that will be 32.025m x 18.3m or all sold off farm.

Manure will be stored in accordance with SSAFO (Water Resources Act (Control of Pollution) (Silage Slurry and Agricultural Fuel Oil) (Wales) Regulations 2010).

8. "DIRTY" YARD AREAS

"Dirty" Yards

The "dirty" yard areas on the farm will be kept to a minimum. This is due to the manure all being contained in the poultry unit and removed every four days together with the hardcore area to the front of the poultry unit.

Frowen Farm Poultry Unit will have a dirty water tank installed on farm. The waste water tank will be built in compliance with the SSAFO standards.

9. CONTINGENCY PLAN

In the event that manure cannot be applied to the land and that the manure store at Frowen Farm is full the applicant shall sell the manure to other local farmers or the manure will be stored in a separate existing agricultural building.

All contaminated wash water will be stored in the dirty water tank upon farm.

APPENDIX 1 – Farm Plans