APPENDIX NO. 7 divertises.

ORGANIC MANURE NUTRIENTS

Conseeting Andreas Andre

SCHEDULE 2

CRITERIA AS TO STORAGE CAPACITY AND NUTRIENT MANAGEMENT

Table 1 Slurry storage capacity required for sows and pigs

Unit type	m³/week¹				
Water:meal ratio changing for finishers only	2.0:1	2.5:1	3.0:1	3.5:1	4.0:1
Breeding unit (per sow place)	-	-	-		0.174
Integrated unit (per sow place)	0.312	0.355	0.398	0.441	0.483
Finishing unit (per pig)	0.024	0.031	0.039	0.046	0.053

¹An additional 200mm freeboard must be provided in all covered tanks and 300mm freeboard in all uncovered tanks. Allowance must also be made for net rainfall during the specified storage period for uncovered tanks.

Table 2 Slurry storage capacity required for cattle, sheep and poultry

Livestock type	m³/week¹		
Dairy cow	0.33		
Suckler cow	0.29		
Cattle > 2 years	(N) 0.26		
Cattle (18-24 months old)	0.26		
Cattle (12-18 months old)	0.15		
Cattle (6-12 months old)	0.15		
Cattle (6-12 months old) Cattle (0-6 months old)	0.08		
Lowland ewe	0.03		
Mountain ewe	0.02		
Lamb-finishing &	0.01		
Poultry — layers per 1000 birds (30% DM)	0.81		

An additional 200mm freeboard must be provided in all covered tanks and 300mm freeboard in all uncovered tanks. Allowance must also be made for net rainfall during the specified storage period for uncovered tanks.

Table 3 Storage capacity required for dungstead manure

Livestock type	Solid fraction (m³/week)	Seepage fraction (m³/week)1
Dairy cow	0.28	0.04
Suckler cow	0.25	0.03
Cattle > 2 years	0.23	0.02
Cattle (18-24 months old)	0.23	0.02
Cattle (12-18 months old)	0.13	0.01
Cattle (6-12 months old)	0.13	0.01
Cattle (0-6 months old)	0.07	0.01

¹Allowance must also be made for net rainfall during the specified storage period for uncovered tanks.

Article 13 and 20

Table 6 Annual nutrient excretion rates for livestock

Livestock type	Total Nitrogen	Total Phosphorus
	kg/year	kg/year
Dairy cow	85	13
Suckler cow	65	10
Cattle (0-1 year old)	24	3
Cattle (1-2 years old)	57	8
Cattle > 2 years	65	10
Mountain ewe & lambs	7	1
Lowland ewe & lambs	13	2
Mountain hogget	4	0.6
Lowland hogget	6	1
Goat	9	1
Horse (>3 years old)	50	9
Horse (2-3 years old)	44	8
Horse (1-2 years old)	36	6
Horse foal (< 1 year old)	25.	3
Donkey/small pony	Met 30	5
Deer (red) 6 months — 2 years	J. ary 13	2
Deer (red) > 2 years	çot 25	4
Deer (fallow) 6 months — 2 years	7	1
Deer (fallow) > 2 years	13	2
Deer (sika) 6 months — 2 years con wife	6	1
Deer (sika) > 2 years	10	2
Breeding unit (per sow place)	35	8
Horse foal (< 1 year old) Donkey/small pony Deer (red) 6 months — 2 years Deer (fallow) 6 months — 2 years Deer (fallow) > 2 years Deer (sika) 6 months — 2 years Deer (sika) 6 months — 2 years Deer (sika) > 2 years Breeding unit (per sow place) Integrated unit (per sow place) Finishing unit (per pigeplace) Laying hen per bird place	. 87	17
Finishing unit (per pigplace)	9.2	1.7
Laying hen per bird place	0.56	0.12
Broiler per bird place	0.24	0.09
Turkey per bird place	1	0.4

Article 15 and 20

Table 7 Amount of nutrient contained in 1m³ of slurry

Livestock type	Total Nitrogen (kg)	Total Phosphorus (kg)
Cattle	5.0	0.8
Pig	4.2	0.8
Sheep	10.2	1.5
Poultry — layers 30% DM	13.7	2.9

For the purposes of calculation, assume that $1\mathrm{m}^3 = 1,000$ litres = 1 tonne.

Table 8 Amount of nutrients contained in 1 tonne of organic fertilisers other than slurry

Livestock type		Total Nitrogen (kg)	Total Phosphorus (kg)
Poultry manure	broilers/deep litter	11.0	6.0
	layers 55% dry matter	23.0	5.5
	turkeys	28.0	13.8
Dungstead manure (cattle)		3.5	0.9
Farmyard manure		4.5	1.2
Spent mushroom compost		8	2.5
Sewage sludge		Total nitrogen and total phosphorus content per tonne shall be as declared by the supplier in accordance with the Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 to 2001 and any subsequent amendments thereto.	
Dairy processing residues and other products not listed above		Total nitrogen and total phosphorus content per tonne based on certified analysis shall be provided by the supplier.	

Table 9 Nutrient availability in fertilisers

Article 15

	Other to day			
Fertiliser	Availability ¹ (%)			
	Nitrogen nut diff		Phosphorus	
	From January 1 2010	From January 1 2011	From January 1 2007	
Chemical	100	20 0 100	100	
Pig and poultry manure	50 60	tig 50	100	
Farmyard manure	30 &	30	100	
Spent mushroom compost	45 consent	20	100	
Cattle and other livestock manure (including that produced on the holding)	40	40	100	

Refers to year of application