TECHAPPR

Lindridge Farm, Desford

Slurry Lagoon Volume Calculation

	Figures used for calculation			Source
No. of Milking cows	200	current		R Leedham
No. of Milking cows	250	proposed		R Leedham
No. of young stock 6mth-2yrs	130	current		R Leedham
No. of calves up to 6 months	60	current		R Leedham
Slurry volume produced per month	1.93	cu metres per stock per month	650 kg animal	Defra Booklet 2 Table F
Slurry volume produced per month	0.40	cu metres per stock per month	young stock	Defra Booklet 2 Table F
Slurry volume produced per month	0.21	cu metres per stock per month	calf to 6 months	Defra Booklet 2 Table F
Rainfall	606.2	mm per annum	1971-2000 ave.	Met Office - Sutton Bonnington
Milking parlour washings	18	litres per animal per day		Defra NVZ Booklet Part 2
Buildings & yard area	9388	sq metres		from OS plan
Lagoon Surface area	3729	sq metres		from proposed drawing

Average 22 week period (5 months)

Slurry	1930.0		Cows current
	2412.5		Cows proposed
	260.0		Young stock
	63.0		Calves
Rainfall	953.8		on lagoon area
Washings	693.0		from parlour
Run off	2401.1		buildings & yards
Total	6783.4	cu metres	(for proposed 250 cows)
	6783390.169	litres	
	1492169.469	gallons	
	6162.3	cu metres	(for current 200 cows)