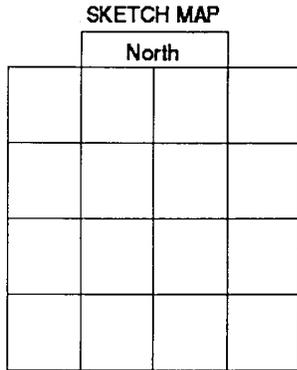


HOLDING POND (ANIMAL WASTE)

Owner/Operator _____ County _____ Field Office _____

NRD _____ Date _____



PLANNING & DESIGN DATA

- (1) Drainage Area of Lot & other Contributing Area Acres
- (2) Animal Units =
- (3) Maximum Length of Storage Days (Minimum of 190 days)
- (4) Storage Months -->
- (A) Will there be a Debris Basin in this System Yes No

Legal Description

Sec. _____ T _____, R _____

- (B) Will manure be scraped into or toward the pond Yes No

SOLID STORAGE REQUIRED (For an UnPaved Lot)

If the answer to (A) is Yes NO SOLID STORAGE need be provided

If the answer to (A) is No and the answer to (B) is No use the following:

(5) _____ acres x _____ .5 in . x _____ 3630 = cu ft
(1)

If the answer to (A) is No and the answer to (B) is Yes the total manure production and transport must be analyzed

LIQUID WASTE STORAGE REQUIRED (PAVED LOT or CONFINED FEEDING)

If the liquid produced by the animals or wastewater will infiltrate or evaporate before reaching the holding pond this storage will be 0.

- (6) Daily Manure Volume per AU = cu ft/AU/day See Table 4-5 4-8 etc
- (7) Flush water= _____ gal/head/day x 134/Ave Size of Animal _____ = cu ft/AU/day
From the operator or Table 10. 1 # 2 NE-ENG-82
- (8) Total _____ x _____ x _____ = cu ft
(2) (3) (6)+ (7)

RAINFALL RUNOFF STORAGE THAT IS REQUIRED

Use the greater of the following:

- (9) From the Map on page NE-10C-31.3 of the AWMFH in
- (10) Total Runoff (9) X (1) X 3630 = cu ft

OR (User the larger of (10) or (13) in Line (14))

- (11) UNPAVED LOT *From NE-ENG-81->* (6) + (7C) = in
- (12) PAVED LOT *From NE-ENG-81->* (0) + (9 C) = in
- (13) Volume of Runoff into Pond = (11) OR (12) x (1) x 3630 = CU ft

NOW SIZE THE POND

(14) (5) + (8) + (10) or (13) = cu-ft

Determine the configuration needed to store (14)

(15) Depth of Pond = ft

Adjust the pond depth for freeboard, evaporation and rainfall

(16) (15) + from Eng 91 (4c)/12 + from Eng 81 (5)/12 + 1 ft = ft

Reconfigure the pond with the adjusted depth from (16)

Calculated by _____ Checked by _____

Date _____ Date _____