





PROJECT: Cold Springs Farms - FEED  
 PROJECT NO.: 238-08012A  
 COMPUTATION BY: JEO DATE: 3/26/09 SH. NO.: 1  
 CHECKED BY: DATE: OF: 1

Subject: Holding Pond 1 Design Sheet, P3

98 FT x 98 FT			
		2.00 FT	
	<b>FREEBOARD</b>	16,952 CF	
	<b>50YR 24HR STORM EVENT &amp; RUNOFF</b>	0 CF	0.00 FT
	<b>25YR 24HR STORM EVENT</b>	5,347 CF	0.76 FT
	<b>25YR 24HR STORM EVENT RUNOFF</b>	19,040 CF	3.87 FT
	<b>PRECIPITATION - EVAPORATION</b>	0 CF	0.00 FT
8.00 FT	<b>VOLUME OF MANURE, BEDDING, WASH WATER, FLUSH WATER, NORMAL RUNOFF, AND EXTERNAL STORAGE</b>	1,193 CF	0.37 FT
	<b>MINIMUM TREATMENT VOLUME</b>	0 CF	0.00 FT
	<b>SLUDGE ACC. &amp; PERMANENT ADD. STORAGE</b>	2,812 CF	1.00 FT
50 FT x 50 FT			

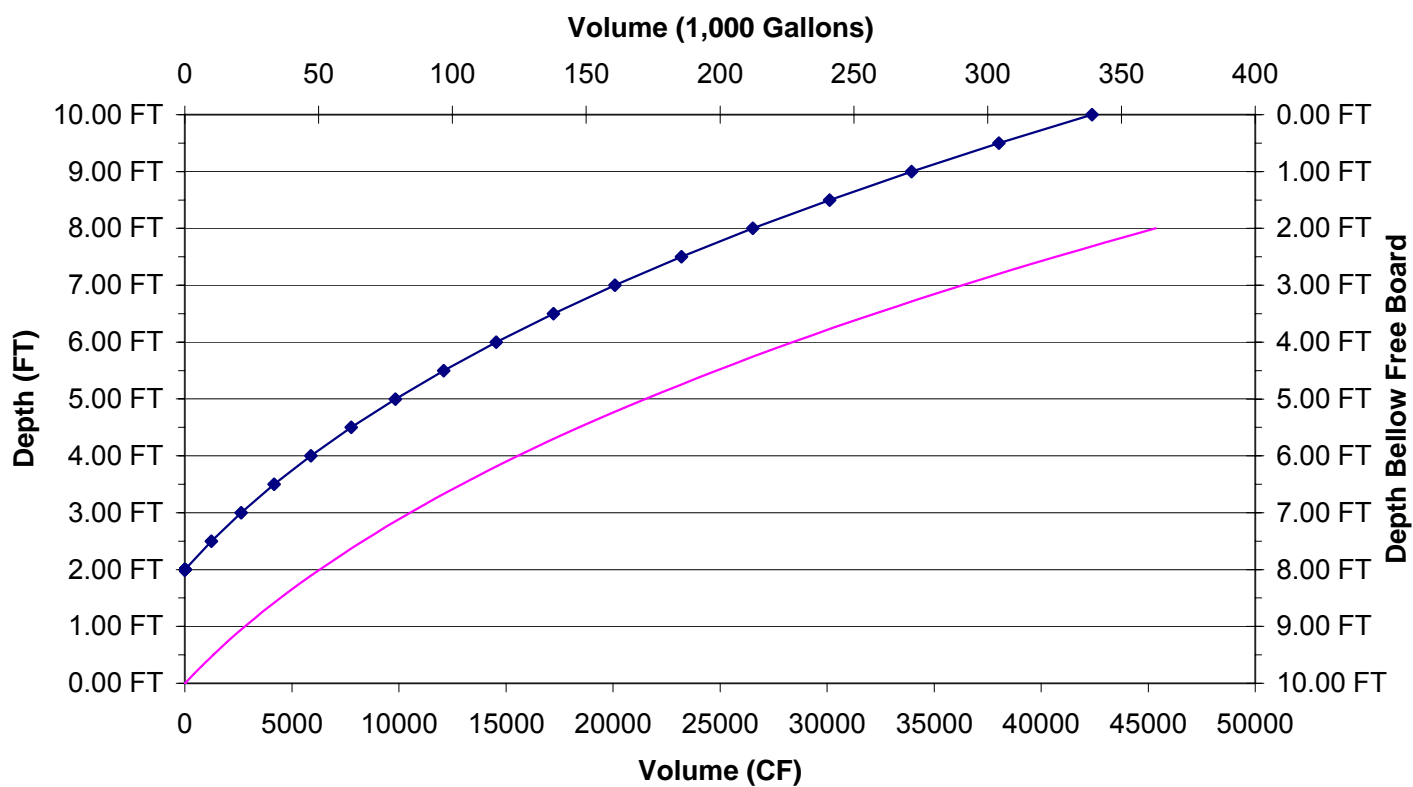
  

EARTHEN STORAGE			
TOTAL DEPTH	8.00 FT		Deminsions
FREEBOARD	2.00 FT		BOTTOM WIDTH
RESIDUAL SOLIDS	1.00 FT		BOTTOM LENGTH
MINIMUM TREATMENT	0.00 FT		INSIDE SLOPE
PRECIP-EVAP DEPTH	0.00 FT		TOP WIDTH
25 YR, 24-HR Runoff V	19,040 CF		TOP LENGTH
25 YR, 24-HR Runoff D	3.87 FT		
25 YR, 24-HR EFF	0.76 FT		START PUMPING
50 YR, 24-HR Runoff V	0 CF		STOP PUMPING
WORKING DEPTH	0.37 FT		
50 YR, 24-HR VOL	0 CF	≈ 0.00 MG	ACTUAL PRECIP
25 YR, 24-HR VOL	5,347 CF	≈ 0.04 MG	ACTUAL EVAP
PRECIP-EVAP VOL	0 CF	≈ 0.00 MG	25 YR, 24-HR ACT
WORKING VOLUME	1,193 CF	≈ 0.01 MG	50 YR, 24-HR ACT
MINIMUM TREATMENT	0 CF	≈ 0.00 MG	
RESIDUAL SOLIDS	2,812 CF	≈ 0.02 MG	50 YR, 24-HR Runoff D
TOTAL RAMP VOL	0 CF	≈ 0.00 MG	50 YR, 24-HR EVENT D
FREEBOARD	16,952 CF	≈ 0.13 MG	
TOTAL VOLUME	45,344 CF	≈ 0.34 MG	

CALCULATE



## RECTANGULAR HOLDING POND 1 Storage Curve



— (CF)

—◆— (1,000 GALLON)





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Inputs:

- ☐ Facility Animals & Locations
- ☐ Additional Animal Waste Inputs
- ☐ Dairy Waste Water Inputs
- ☒ 25YR Stormevent
- ☐ 50YR Storm Event
- ☐ Facility Storage Volumes
- ☐ Nutrients As Excreted

Print

Storages:

- |  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> Pond 1 | <input type="checkbox"/> Uncovered Stacks 1-6 | <input type="checkbox"/> Rect. Tanks 1-8    |
| <input type="checkbox"/> Pond 2            | <input type="checkbox"/> Covered Stacks 1-6   | <input type="checkbox"/> Circular Tanks 1-2 |
| <input type="checkbox"/> Pond 3            |   | <input type="checkbox"/> Circular Tanks 3-4 |
| <input type="checkbox"/> Pond 4            |   | <input type="checkbox"/> Settling Basin 1   |
| <input type="checkbox"/> Pond 5            |   | <input type="checkbox"/> Settling Basin 2   |