



# St. Joseph County Health Department

*“Promoting physical and mental health and facilitating the prevention of disease, injury, and disability for all St. Joseph County residents”*

## FLOOD DOSE WORKSHEET

This worksheet must be accurately completed and submitted with the site plan which demonstrates all aspects of the trench system.

**SYSTEM SPECIFICATIONS: See Health Department specification sheet for information**

Soil Load Rate \_\_\_\_\_ Required absorption area \_\_\_\_\_ ft<sup>2</sup> Required gallons per minute \_\_\_\_\_

Number of bedrooms/equivalents \_\_\_\_\_ x 150 = Daily Design Flow (DDF): \_\_\_\_\_ gallons

**SEPTIC TANK:** Size: \_\_\_\_\_ gallons Manufacturer \_\_\_\_\_

**DOSE TANK:** Size: \_\_\_\_\_ gallons Manufacturer \_\_\_\_\_

Internal dimensions \_\_\_\_\_ width \_\_\_\_\_ length \_\_\_\_\_ gallons per inch or foot  
(circle one)

**ABSORPTION FIELD:** \_\_\_ Aggregate/pipe \_\_\_ Chambers \_\_\_ Other \_\_\_\_\_ (check one)

Lateral separation \_\_\_\_\_ feet on center Minimum trench depth \_\_\_\_\_ Maximum trench depth \_\_\_\_\_

**Chambers:** Manufacturer \_\_\_\_\_ Length per chamber \_\_\_\_\_ feet

Total number of chambers \_\_\_\_\_ Chambers per run or trench \_\_\_\_\_

**Trenches:** Number \_\_\_\_\_ Length \_\_\_\_\_ feet Width \_\_\_\_\_ feet Total square footage \_\_\_\_\_

**Bed:** Length \_\_\_\_\_ feet Width \_\_\_\_\_ feet Total absorptive area \_\_\_\_\_ square feet

**DISTRIBUTION NETWORK:**

Only pressure rated pipe, fittings (couplers, reducers, elbows, tee’s, etc.) will be used. \_\_\_ Yes \_\_\_ No

**Delivery Line:** Length \_\_\_\_\_ feet Diameter \_\_\_\_\_ inches Volume\* \_\_\_\_\_ (length X volume/foot)

\*This is the drain back amount to be added to the actual dose, if applicable, to determine the float settings.

Pipe diameter:	1”	1¼”	1½”	2”	3”	4”
Gallons/foot:	.045	.078	.106	.174	.384	.650

Delivery line drains to:

\_\_\_\_\_ D-box: Total dose is DDF Total dose \_\_\_\_\_ gallons

\_\_\_\_\_ Dose tank: Total dose is DDF + drain back Total dose \_\_\_\_\_ gallons

Drawdown distance - pump on/off \_\_\_\_\_ x \_\_\_\_\_ gallons per inch or foot = \_\_\_\_\_ total dose amount

**Friction loss in delivery line:** Sec. 53 (v) Table VIII of Rule 410 IAC 6-8.1

Friction loss at \_\_\_\_\_ gpm = \_\_\_\_\_ feet per 100 ft. of \_\_\_\_\_ inch diameter pipe

Number from Table VIII \_\_\_\_\_ x \_\_\_\_\_ delivery line length/100 = \_\_\_\_\_ Friction loss

**PUMP:** Manufacturer \_\_\_\_\_ Model \_\_\_\_\_ Horse power \_\_\_\_\_

Performance curve included with TDH and gpm plotted \_\_\_\_\_ Yes \_\_\_\_\_ No

Pump is adequate, but not oversized \_\_\_\_\_ Yes \_\_\_\_\_ No

Dosing Tank will be set up in compliance with Sec. 44 and Sec. 45 of the State Code \_\_\_\_\_ Yes \_\_\_\_\_ No

Electrical Connections will be inside gas proof box. \_\_\_\_\_ Yes \_\_\_\_\_ No

All Septic Tanks and Dosing Tanks will have risers in accordance with Sec. 39 (g) of the State Code \_\_\_\_\_ Yes \_\_\_\_\_ No

Each Dose Tank will be equipped with an audible and visual alarm on a separate circuit from the pump \_\_\_\_\_ Yes \_\_\_\_\_ No

Pump must stay submerged at all times \_\_\_\_\_ Yes \_\_\_\_\_ No

**TOTAL DYNAMIC HEAD:**

A. Friction Loss in Delivery Line \_\_\_\_\_ feet

B. Elevation Difference (Pump off to D-Box) \_\_\_\_\_ feet  
(Or highest elevation in delivery line)

C. System Design Head \_\_\_\_\_ 0 \_\_\_\_\_ feet

A + B + C = Total Dynamic Head = \_\_\_\_\_ feet