Data and Slides Presented Courtesy of

Massachusetts Alternative Septic System Test Center

A DIVISION OF

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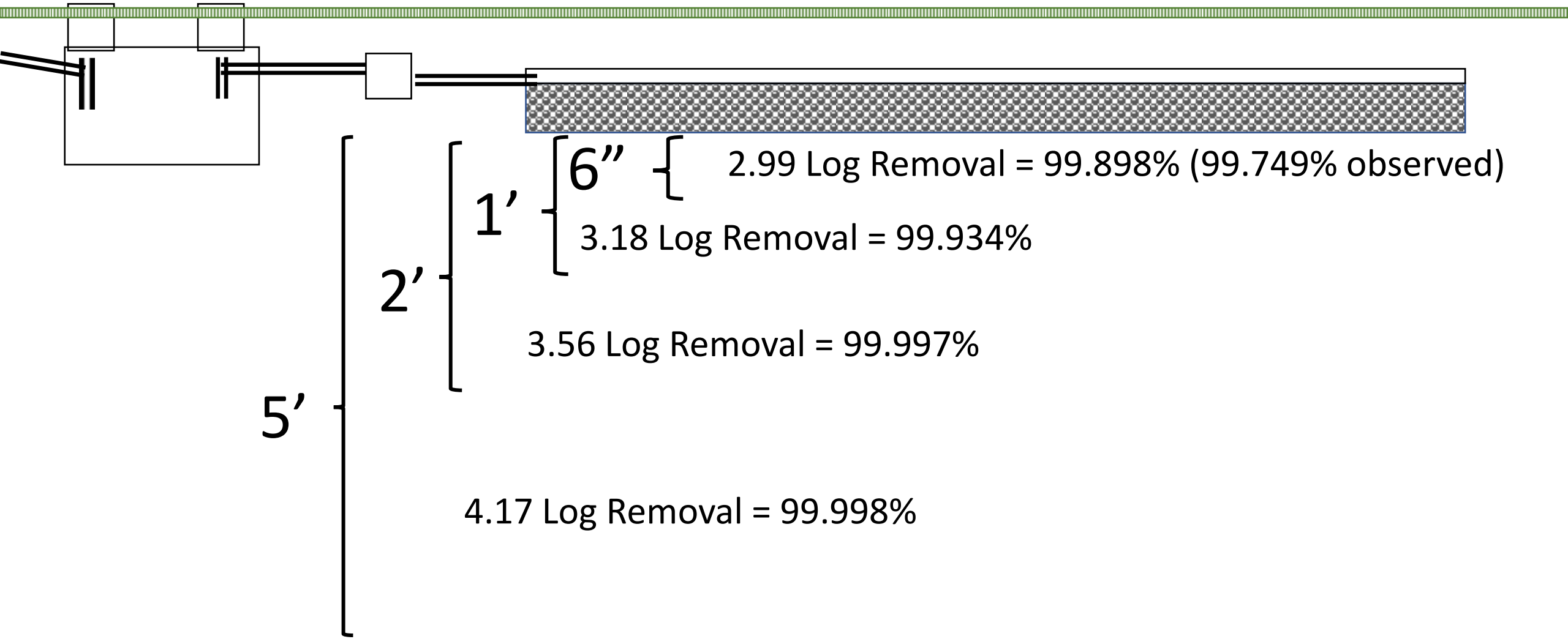
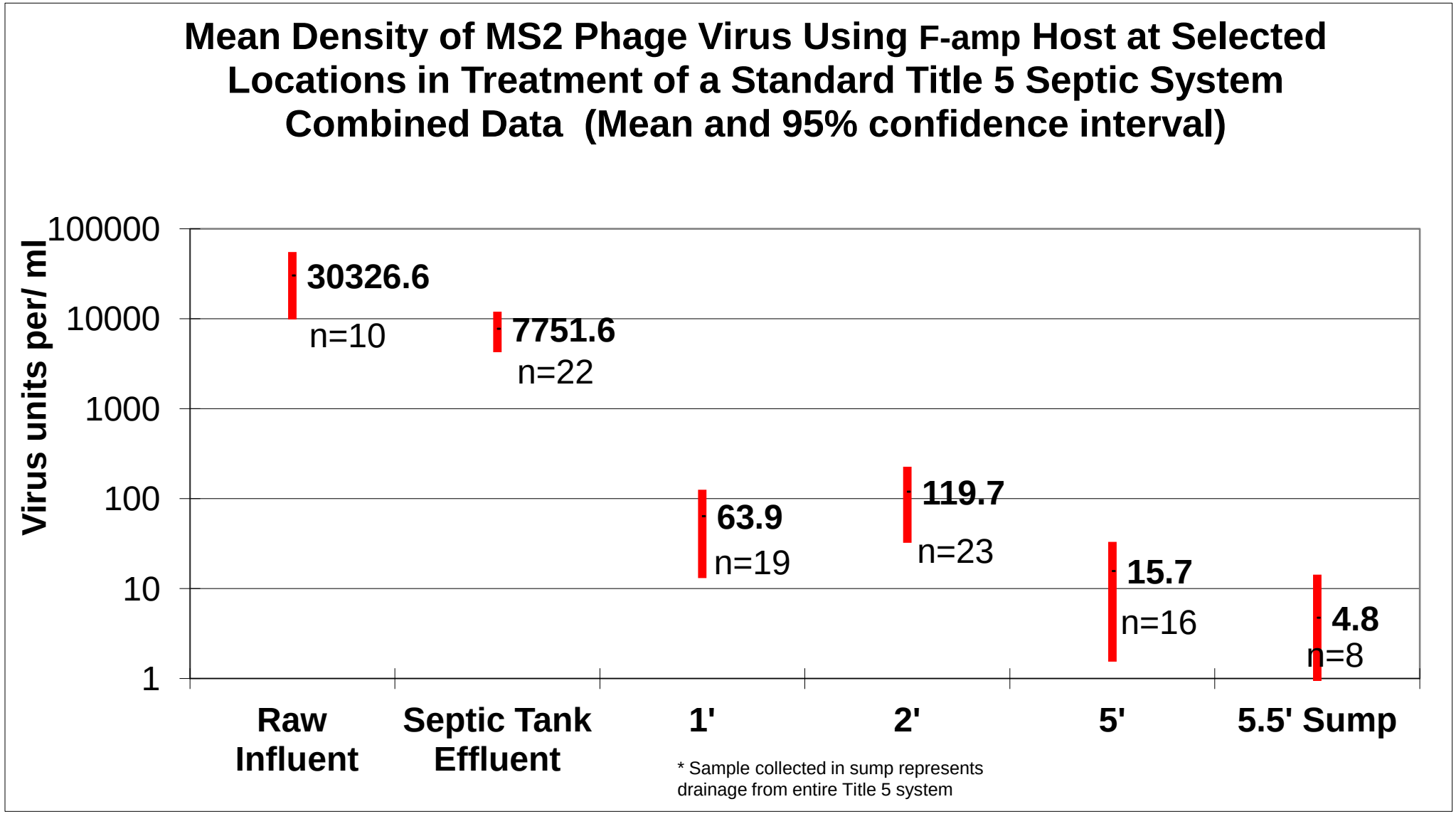

6”
2.99 Log Removal = 99.898% (99.749% observed)
1’
3.18 Log Removal = 99.934%
2’
3.56 Log Removal = 99.997%
5’
4.17 Log Removal = 99.998%

MASSTC


Mean Density of MS2 Phage Virus Using F-amp Host at Selected Locations in Treatment of a Standard Title 5 Septic System Combined Data (Mean and 95% confidence interval)
Virus units per/ ml
100000
10000
1000
100
10
1
30326.6
n=10
7751.6
n=22
63.9
n=19
119.7
n=23
15.7
n=16
4.8
n=8
Raw Influent
Septic Tank Effluent
1'
2'
5'
5.5' Sump
* Sample collected in sump represents drainage from entire Title 5 system

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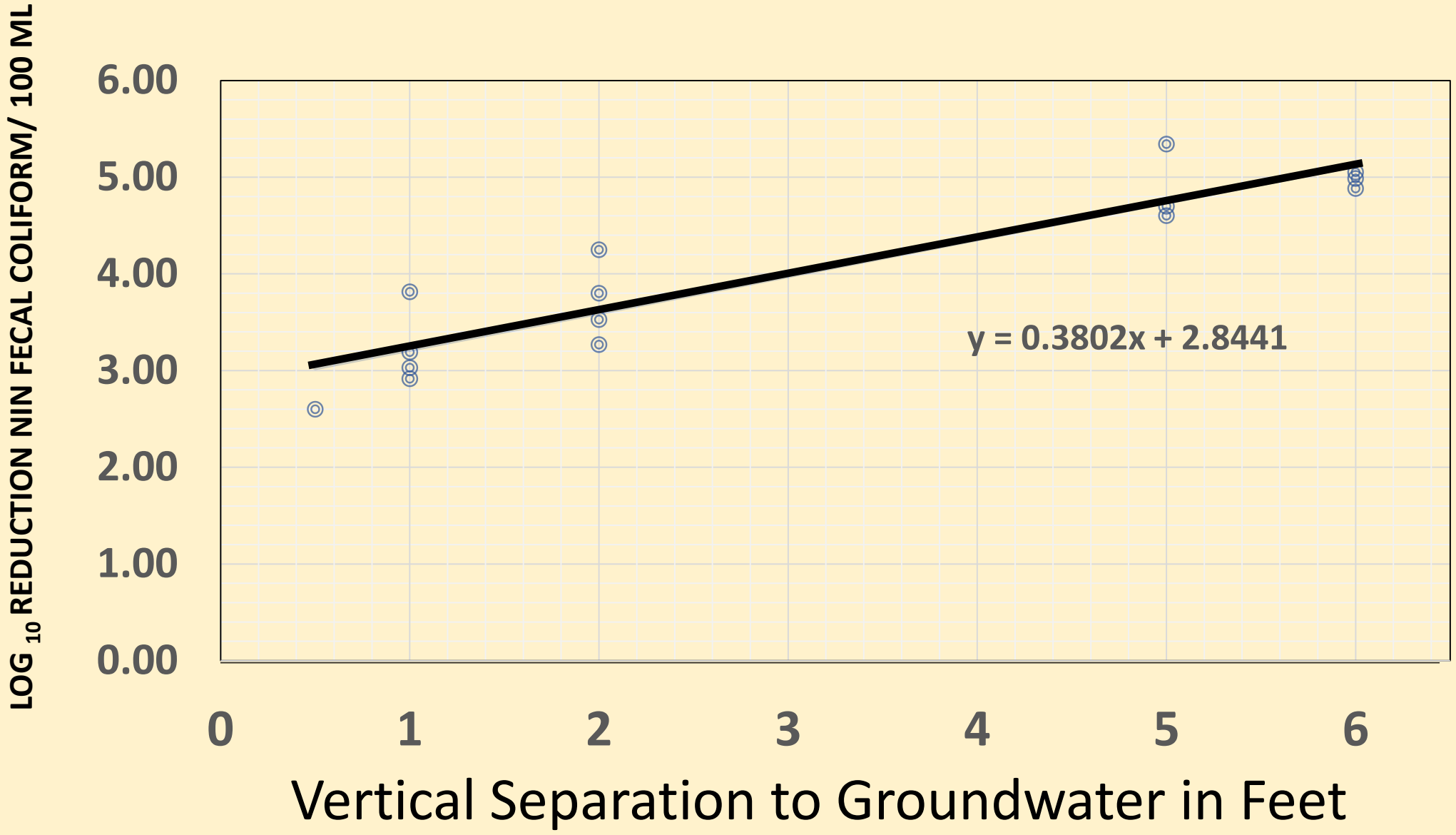
Relationship Between Vertical Separation at Sampling Point and Log Reduction in Fecal Coliform Beneath Standard Gravity-Fed Pipe-in-Stone Trenches



A Brief Data Summary of Selected Experiments Performed at **M**assachusetts **A**lternative **S**eptic **S**ystem **T**est **C**enter regarding cellulose layering under soil absorption systems

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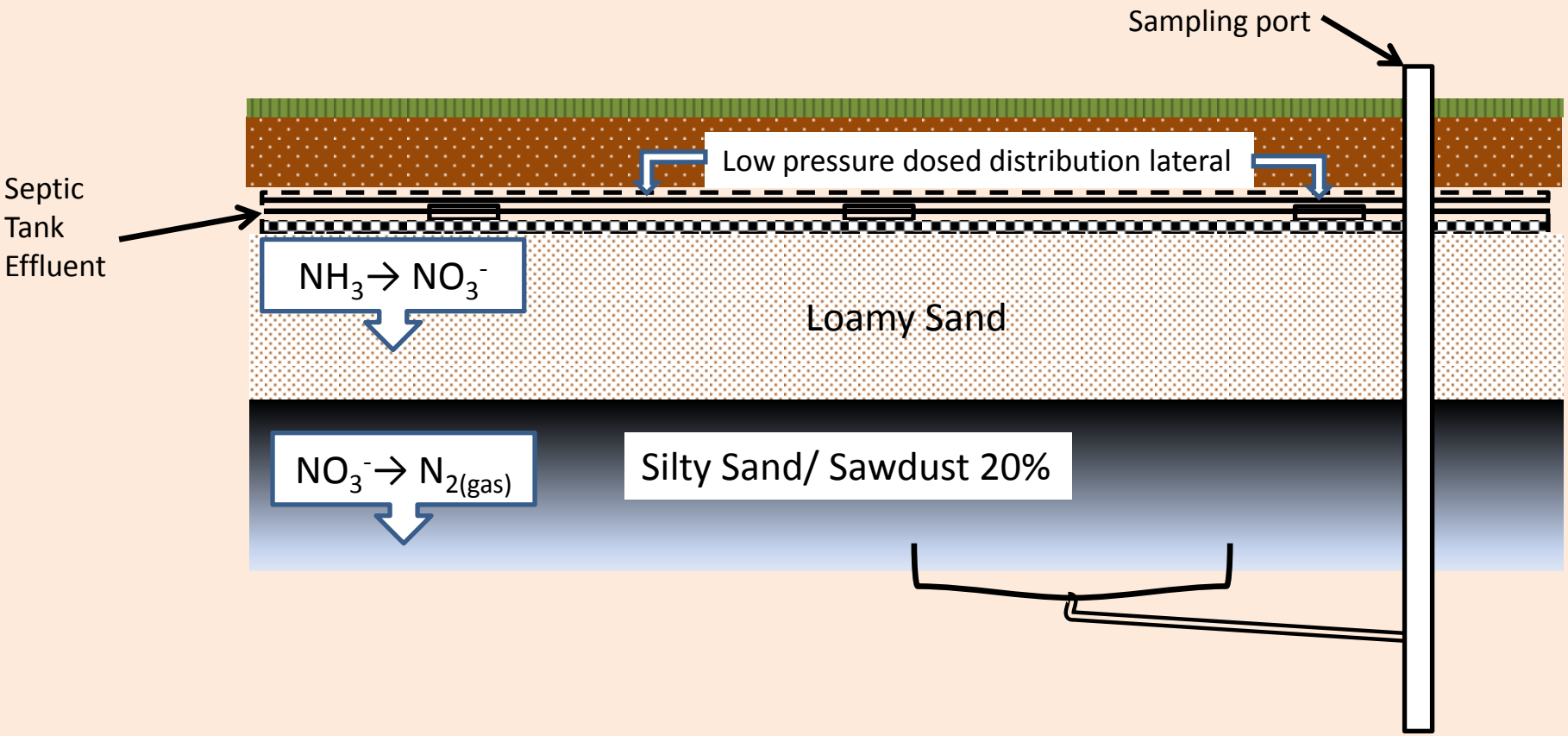
Large scale "permeable reactive barrier" system (Silt-sawdust layer)



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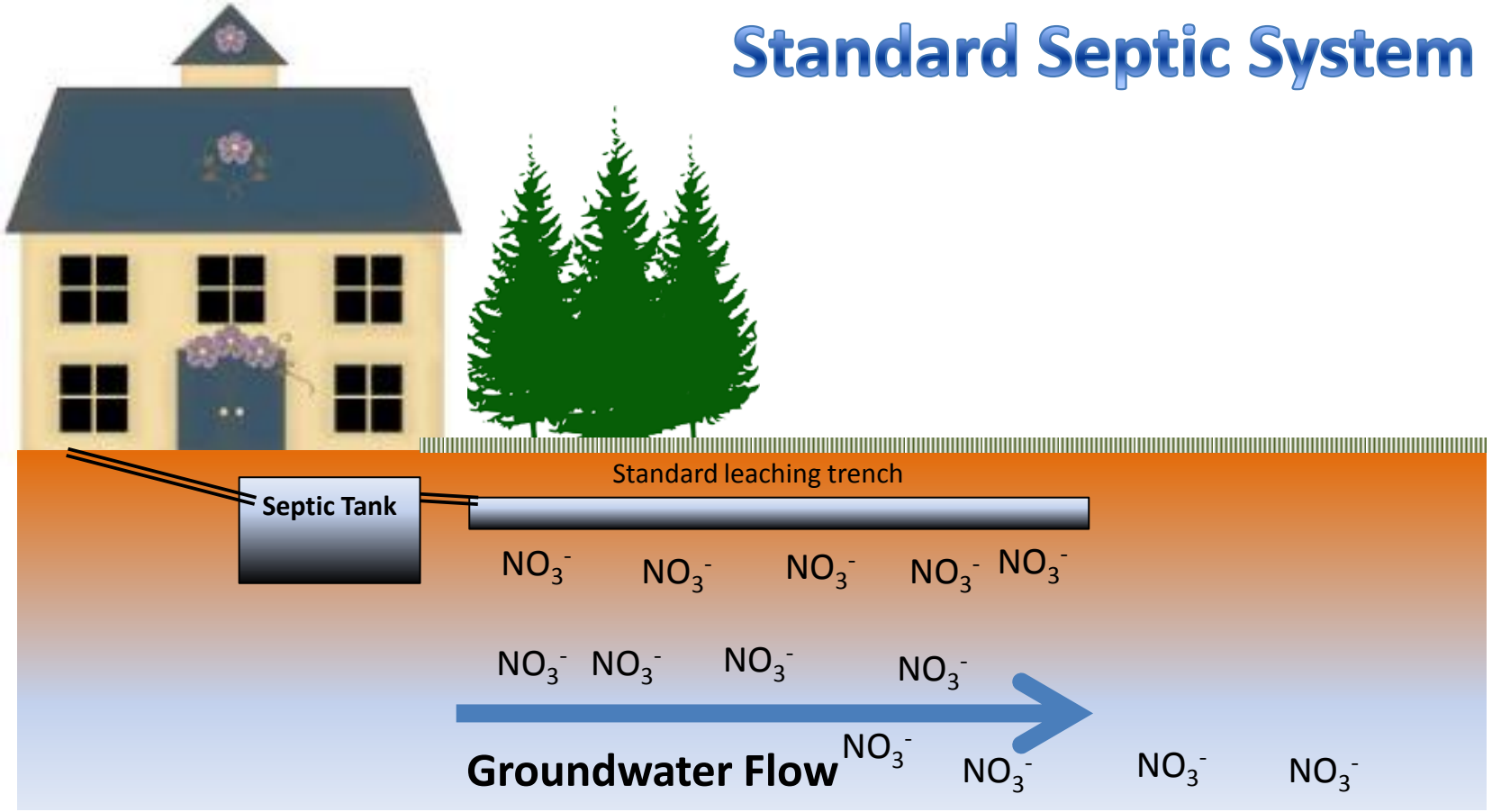
Standard Septic System



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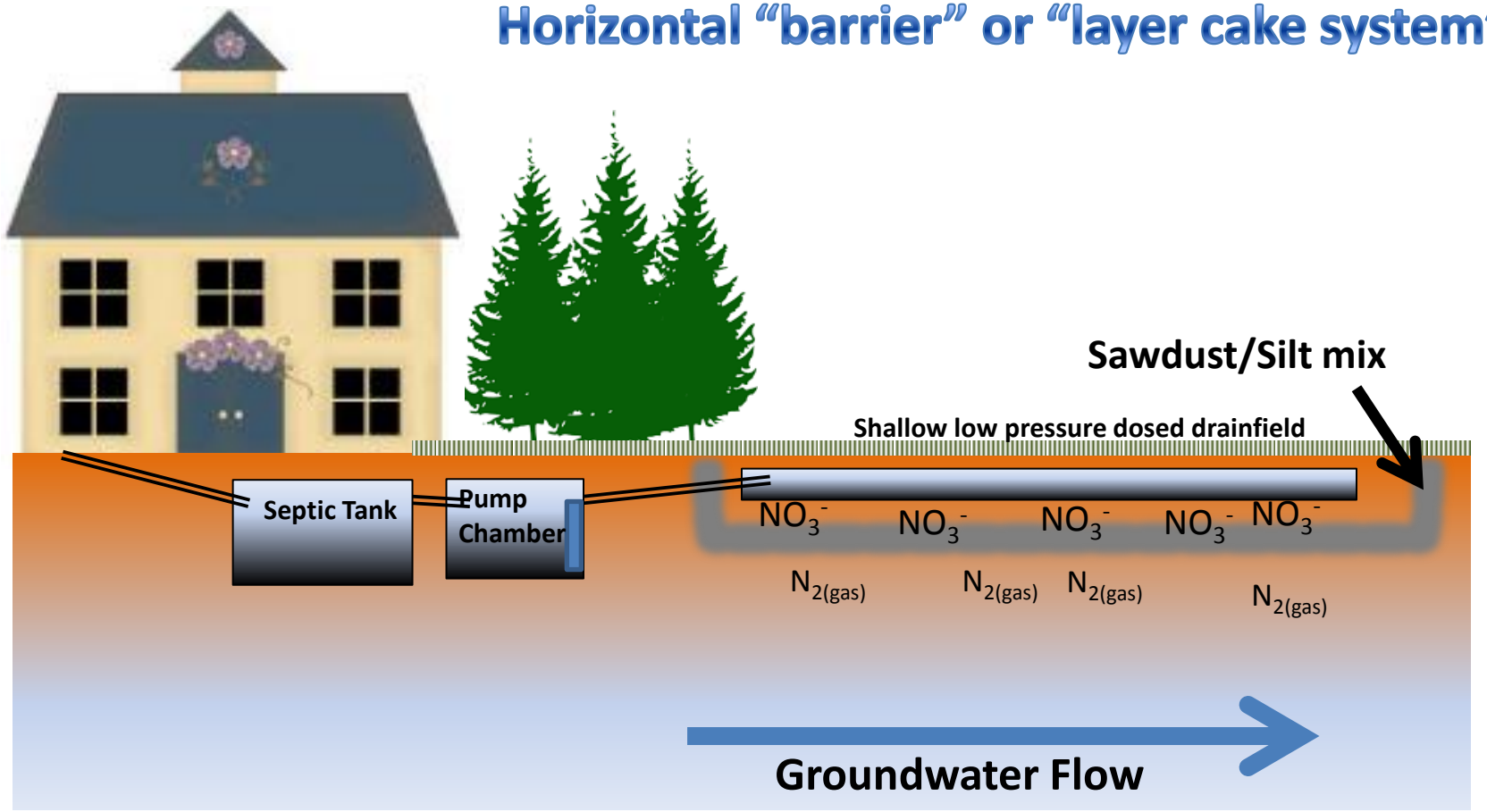
Horizontal "barrier" or "layer cake system"



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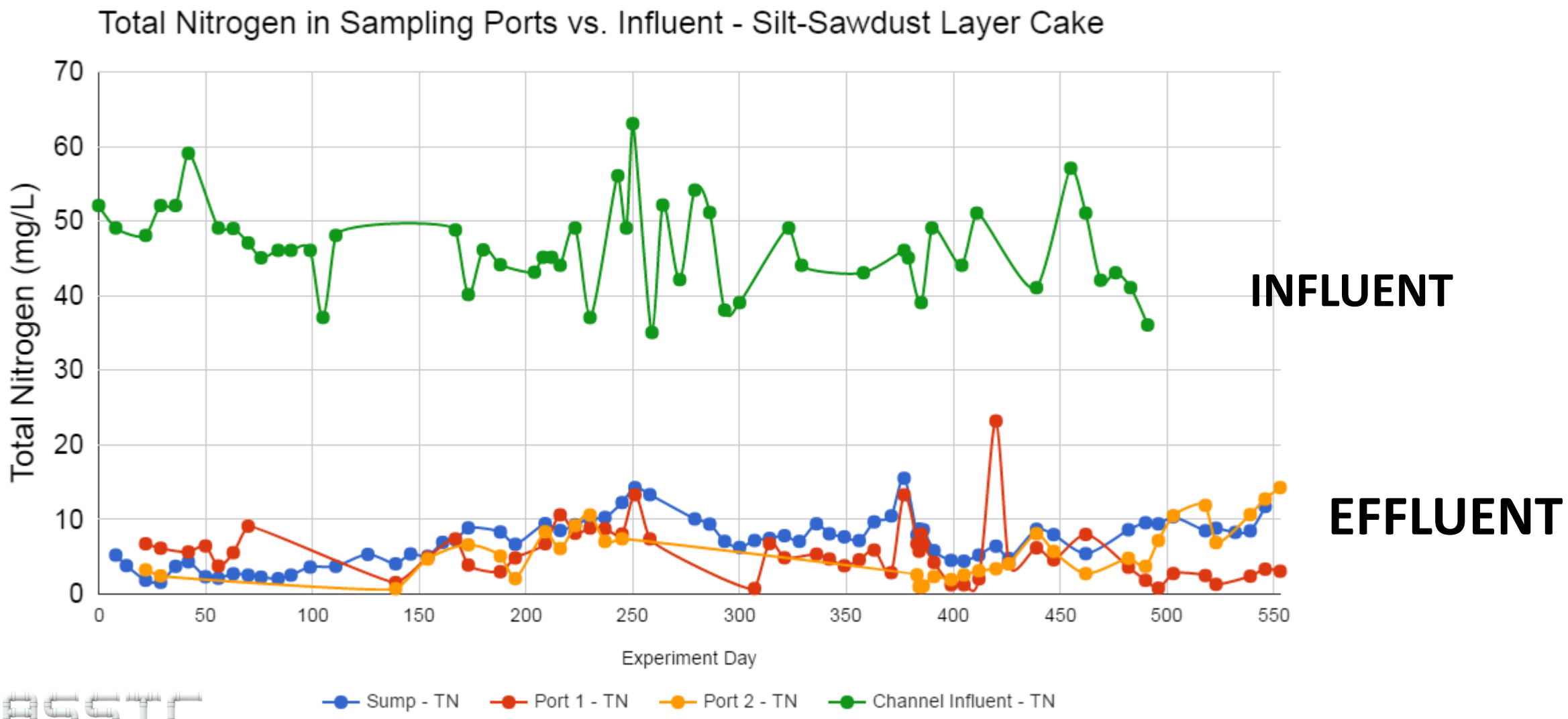
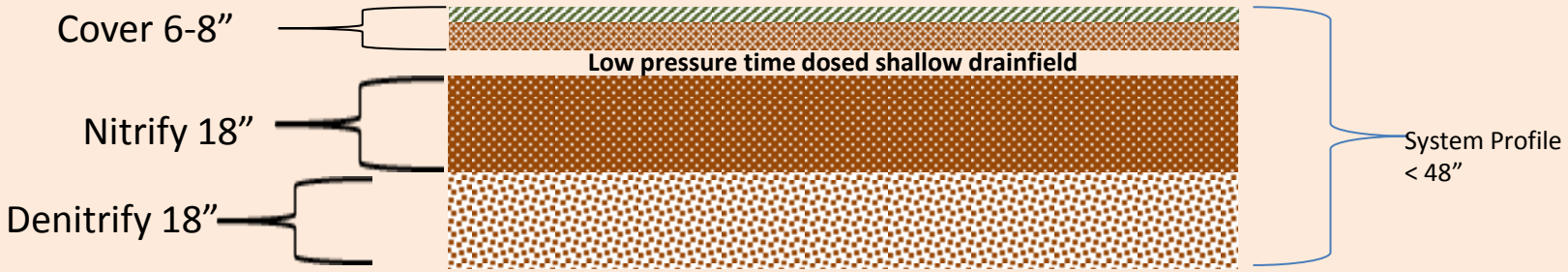
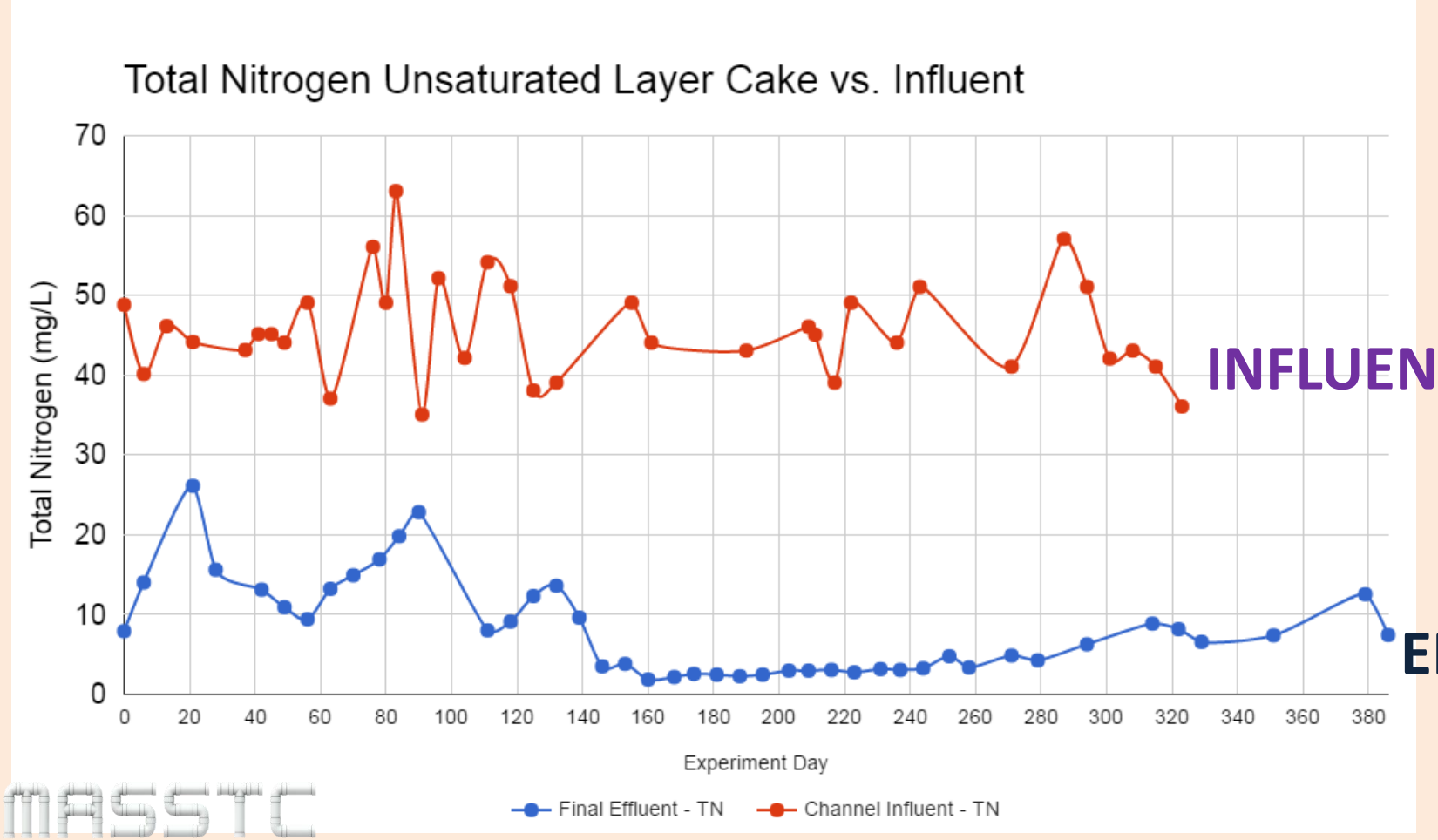
Large scale "permeable reactive barrier" system (Silt-sawdust layer)







Mean 8.2 mg/L TN
Median 7.4 mg/L TN