SOIL ANALYSIS FOR DRIP ADVANCED TREATMENT SYSTEM

August 6, 2023

For: Geoff Roesch Parcel ID: 094-012.00 Wilson, TN

Total Bedroom Availability in System Design: 36 Bedrooms

Ta1 A: Total SF = 56,158 = 21 Bedrooms

Area 1 = S2 Pit 4 = 19,000 SF @ .2/gpd Silty Clay Loam Moderate Structure

11 Bedrooms = 1,650 gpd/.2 = 8,250 SF plus 15% allowance for topography fluctuations & trees = 1238 SF + 8,250 SF = 9,488 SF Primary & 9,488 SF Reserve 16,500 SF Required

Area 2 = S2 Pits 1&3, S3 Pit 3 = 37,158 SF @ .1/gpd Silty Clay Moderate Structure

10 Bedrooms = 1500 gpd/.1 = 15,000 SF plus 15% allowance for topography fluctuations & trees = 2,250 SF + 15,000 SF = 17,250 SF Primary & 17,250 Reserve **34,500 SF Required**

Ta1 B: Total SF = 11,232 SF = 3 Bedrooms

Area 1 = S3 Pit 1 @ .1/gpd Silty Clay Moderate Structure

3 Bedrooms = 450 gpd/.1 = 4,500 SF plus 15% allowance for topography fluctuations & trees = 675 SF + 4,500 SF = 5,175 SF Primary & 5,175 SF Reserve **10,350 SF Required**

Ta2: Total SF = 35,779 SF = 10 Bedrooms

Area 1 = S1 Pits 1,2&3 @ .1/gpd Silty Clay Moderate Structure

10 Bedrooms = 1500 gpd/.1 = 15,000 SF plus 15% allowance for topography fluctuations & trees = 2,250 SF + 15,000 SF = 17,250 Primary & 17,250 Reserve **34,500** SF Required

In: Total SF = 35,004 SF = 2 Bedrooms *see below

Area 1 = S2 Pit 2 (Clay Platy Structure Not Used) = Not Supported

Area 2 = S3 Pit 2 @ .075/gpd Clay Weak Structure (Total Area = 9,284 SF)

2 Bedrooms = 300 gpd/.075 = 4,000 SF plus 15% allowance for topography fluctuations & trees = 600 SF + 4,000 SF = 4,600 SF Primary & 4,600 SF Reserve **9,200 SF Required**

Gu: Soil Structure Not Supported for Drip System

ANALYSIS PROVIDED BY: A1 SEPTIC INSTALLERS
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^{*} Actual bedroom count approval will be subject to local permitting office.