

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
1999 CANDLEWICK DRIVE
FORT MILL, S.C. 29715
803-802-4403 (office)
803-802-4402 (fax)

Reference: Data Sheet for Lot 579 Farms S.D., Iredell County NC
House Footprint: Refer to Drawing
Water Source: Private Well
Number of Bedrooms: 5/600gpd (Currently permitted for four bedrooms)
Pre-determined LTAR: Initial 0.3 gpd/ft2, Repair 0.25 gpd/ft2
Suggested System Type: LP PPBPS, Repair LP PPBPS
Distribution: CVB
Pressure Head: 2'
Flow per Tap: 7.11gpm
Hole Size: 3/16
Number of Panels: 77
System Flow: 45.43
Dosing Volume: 277.2
Pump Run Time: 6.10
Elevation Head: 8.0
Friction Head: 3.27
Total Dynamic Head: 15.92
Total Linear Footage: 335
Proposed Trench Depth: 36"
Septic/ Pump tank size: 1500gal

Line	Actual Length	Design Length	Elevation
White 1	23'		4.2
Pink 2	38'		5.0
Blue 3	54'		6.0
White4	67'		6.7
Pink 5	44'		7.5
Blue 6	48'		8.3
White 7	46'		9.2
Pink 8	40'		10.1
White 9	40'		10.9
Pink 10	42'		11.8
Blue 11	35'		12.4
Pink 12	30'		13.1
White 13	44'		14.2

Blue 14	**135'**	**135'**
Pink 15	**100'**	**100'**
White 16	63'	
White 17	**53'**	**50'**
Orange 18	**50'**	**50'**

Initial System: 335' of PPBPS **Repair System:** 614'
Septic Tank: 1500gal **Benchmark: 0.05, Front left corner**
House Corner: 12.1, Rear left Corner

Comments: Currently Lot 579 is permitted for a four bedroom septic system; the present owners wish to expand this system in order to accommodate a five bedroom septic system. Previously the site was permitted with a .25 LTAR, we are proposing to alter the house location and increase the LTAR to a .3gpft2, therefore four new soil observations were excavated in order to determine that there was adequate soils and space available to accommodate the five bedroom system.