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LICENSED SOIL SCIENTIST
1999 CANDLEWICK DRIVE
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Reference: Data Sheet for Lot 374 Farms S.D., Iredell County NC
House Footprint: Refer to Drawing
Water Source: Community Well
Number of Bedrooms: 5/600gpd (Currently permitted for four bedrooms)
Pre-determined LTAR: Initial 0.3 gpd/ft2, Repair 0.3 gpd/ft2
Suggested System Type: LP PPBPS, Repair LP PPBPS
Distribution: CVB
Pressure Head: 2'
Flow per Orifice: .59
Hole Size: 3/16
Number of Panels: 77
System Flow: 45.43 gal/min
Dosing Volume: 277.20 gal/dose
Pump Run Time: 6.10 min
Pump Tank Drawdown: 8.94"
Elevation Head: 11.10
Friction Head: 2.28
Total Dynamic Head: 18.45
Total Linear Footage: 335'
Proposed Trench Depth: 36"
Septic/ Pump tank size: 1500gal

Line	Actual Length	Design Length	Elevation
Pink 1	105'		2.7
Orange 2	100'		3.0
Blue 3	50'		3.9
Pink 4	**67'**	**67'**	**4.9**
Orange 5	**68'**	**67'**	**5.3**
White 6	**70'**	**67'**	**5.8**
Blue 7	**73'**	**67'**	**7.1**
Orange 8	**68'**	**67'**	**8.2**
Pink 9	67'		8.7
Blue 10	100'		9.6
Pink 11	81'		11.0

Initial System: 335' LP PPBPS, P4-O8
ST/PT: 1500gal
House Corner: 5.2, Back Left Corner

Repair System: PPBPS, P1-B3 & P9-P11, 503' (Need 334')
Benchmark: 2.0, Rear left corner

Comments: Currently lot 374 is permitted for a four bedroom septic system; the current owners wish to slightly alter the current house location, add a fifth bedroom and a pool. The site is permitted with a .3 LTAR for both the initial and the repair, three additional soil observations were completed and all verified the current rating of .3g/d/ft2. Please note the new proposed septic area is in the same location as the current permit. This is a crawl only/no basement and do not cut pad. Due to unsuitable topography this proposal is to acquire a panel block system, although once the clearing of the lot takes place, this lot should accommodate a 5 bedroom 25% reduction system.