PPBPS SYSTEM FOR WASTEWATER TREATMENT

Owner's name: Jim Wilson **Phone:** 704 663-3540
Mailing address: 107 Harbour Shore Court
Mooresville, NC 28117
System location: The Harbour-Lot 18
Tax ID #: **Deed Book:**
Township: **County:** Iredell
Source of Wastewater Flow: 5-bedroom home
Estimated Daily Wastewater Production: 600 gpd
System Flow: 33.96 gpm

DESIGN PARAMETERS

Drainfield size: 336 linear ft.
Number of Panels 76
Trench depth: 28" below natural soil surface
Trench width: 36"
Septic tank size: 1500 gal
Supply line volume: 31.32 gal
Supply line length: ~180'
Supply line diameter: 2"
Supply line pressure rating: SCH 40

Loading rate: 0.3 gpd/ft^2
Hole size 5/32"
Hole spacing: 1 per panel
Pump tank size: 1500 gal
Pump tank dimensions: Stay Rite 10.5'x5' (or other NCDENR approved 1500 gal pump tank
Approx. pump tank draw down: Stay Rite is 32.7 gal/in-will vary based on tank dimensions
Combined lateral line volume: 25 gal
Dosing volume: 274 gal

Recommended float controls: SJE Pumpmaster
Threaded union: in tank
Gate valves: 1 per lateral, 1 in tank
Check valves: 1 in tank, 1 on each supply line
Anti-siphon hole: No

Elevation head: ~20'
Pressure head: 2.0'
Friction head: 4'
Total dynamic head: 26'

Recommended high water alarm: SJE Rhombus panel and floats
Recommended Pump: Myers, effluent pump, series ME50, 1/2hp or approved equal
Additional Comments: Soil suitability performed by Soil and Environmental Consultants and Iredell County Health Department.

The Harbour Lot 18

Project No. 5-1436s1

LAYOUT FOR 5 BEDROOM HOME — Oct-04

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH
TBM		10.0			100.0	
INSTR. 1			110.0			
			SYSTEM			
1	ORANGE			3.30	106.7	36
2	YELLOW			4.00	106.0	54
3	BLUE			4.50	105.5	69
4	PINK			5.10	104.9	84
5	YELLOW			7.60	102.4	45
6	ORANGE			8.20	101.8	45
					Total	**333**
			REPAIR			
7	PINK			4.40		36
8	ORANGE			5.30		48
9	RED			6.00		63
10	YELLOW			6.90		70
11	BLUE			7.30		70
12	PINK			7.60		47
13	RED			8.50		30
					Total	**364**

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	DISTRIBUTION
SYSTEM	336	0.30	PPBPS	LPP
REPAIR	364	0.30	PPBPS	LPP

Notes:

** TBM of system = front eip
**TBM is assumed to be 100'
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**BS and FS indicate rod readings