LP PPBPS SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant:	William & Elizabeth Gaule
Address:	102 Peralta Circle Mooresville, NC 28117
Phone:	440-935-2929
County:	Iredell
Location:	136 BRIDLEWOOD DR (LOT 130 CL&T)
Source of Wastewater Flow:	4 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	480
System Flow:	25.01

Design Specifications

Drainfield Size:	269
Loading Rate (gpd/ft.^{2}):	0.3
Depth of Gravel in Trench:	NA (PPBPS)
Gravel Size:	NA (PPBPS)
Trench Depth:	36 in.
Trench Width:	24 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	138
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	24.01
Dosing Volume:	147.13
Supply Manifold:	N/A
Supply Manifold Length:	N/A
Supply Manifold Volume:	N/A
Recommended Float Controls:	SJE Sensor Float Control Switches as Required for Control Panel or County Approved Equivalents
Recommended Control Panel:	SJE-Rhombus Model 112 (NEMA 4x) Control Panel or County Approved Control Panel.
Pressure Head:	2 ft.
Friction Head:	1.75
Elevation Head:	20.37
Total Dynamic Head:	27.74
Threaded Union:	In Tank
Gate Valves:	1 in Tank 1 per lateral
Check Valves:	In Tank
Anti-Siphon Hole:	NA
Additional Comments:	Soil suitability was performed by Rollans Soil & Environmental Services

136 BRIDLEWOOD DR (LOT 130 CL&T)
LP PPBPS

DESIGN FLOW (gpd):	480
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	807
TOTAL LATERAL LENGTH:	269
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	266.6666667
SUPPLY LINE LENGTH:	138
TOTAL DYNAMIC HEAD:	27.74
MANIFOLD SIZE:	N/A
DOSING VOLUME:	147.13
PUMP TANK DRAW DOWN*:	7.0
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	1000

**Pump tank draw down based on a volume basis of 21 gallons per inch. Draw down may vary among pump tank manufacturers.*

136 BRIDLEWOOD DR (LOT 130 CL&T)

Project #: 01-1653

LAYOUT FOR 4 BEDROOM HOME

February 14, 2011

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM					785.80		
INSTR. 1							
HOUSE CNR					770.43		
P. TANK					768.36		
1	***RED***				***783.73***	***44***	***44***
2	***ORANGE***				***782.73***	***44***	***44***
3	***BLUE***				***781.23***	***40***	***40***
4	***PINK***				***779.88***	***35***	***35***
5	***RED***				***778.55***	***26***	***26***
6	***ORANGE***				***771.53***	***40***	***40***
7	***BLUE***				***769.89***	***40***	***40***
8	PINK				768.36	38	38
9	RED				767.21	131	131
10	ORANGE				765.74	103	103
11	PINK				764.62	27	27
					Total	**568**	**568**

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
****System***	***269***	***0.300***	***MOD.***	***0.300***	***PPBPS***	***LOW PRESSURE***
Repair	299	0.275	MOD.	0.275	PPBPS w/ TS II Pretreatment	LOW PRESSURE

Notes:

** TBM located top of ground at EIP at corner of lot (see site plan)

**All measures in feet

**Nitrification lines are demonstrated on contour via colored pin flags

**BS, HI, and FS indicate rod readings

** **All lines located by a Licensed Surveyor.**

LP PPBPS TAPSHEET -136 BRIDLEWOOD DR (LOT 130 CL&T)

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench Area	Number of Panels
1	RED	783.73	44	0.156	0.41	132	10
2	ORANGE	782.73	44	0.156	0.41	132	10
3	BLUE	781.23	40	0.156	0.41	120	9
4	PINK	779.88	35	0.156	0.41	105	8
5	RED	778.55	26	0.156	0.41	78	6
6	ORANGE	771.53	40	0.156	0.41	120	9
7	BLUE	769.89	40	0.156	0.41	120	9
	total	feet =	269	gal/min =	25.01		61

Des. Flow	480
Pump Run=	5.88
soil LTAR	0.3
LTAR +5%	0.315
LTAR with mod.	0.6
LTAR with mod.. + 5%	0.63

.156 equals 5/32 inch hole