OWNER INFORMATION

Owner: Hiawtha Brower

Address: 9849 Treeside Ln
Matthews, NC 28105
Phone: 718-859-9386
County: Iredell
Location: Audrey Lane, Lot 39

Source of Wastewater Flow: 4 Bedroom Single Family Residence
Estimated Gallons Per Day Flow: 480
System Flow: NA

25% GRAVITY DESIGN INFORMATION

Drainfield Design Flow (gpd): 400
Loading/Soil Application Rate (gpd/ft.^{2}): 0.30
Depth of Gravel in Trench: NA (25% reduction)
Gravel Size: NA (25% reduction)
Total Lateral Length From Layout: 400
Total Lateral Length Required: 400
Trench Depth: 36 in.
Trench Width: 36 in.
TOTAL AREA TRENCH BOTTOM: 1200

Septic Tank Size: 1000 gal.

Estimated Supply Line Length: 6
Supply Line Diameter: 3 in. SCH 40 PVC
Supply Line Volume: 2.16
Dosing Volume: NA
Supply Manifold: SERIAL DISTRIBUTION

Additional Comments: Soil suitability was performed by Iredell County Environmental Health

AUDREY LN, GRAND BAY LOT 39
FIELD LAYOUT SPECIFICATIONS

LAYOUT FOR 4 BEDROOM RESIDENCE

June 16, 2013

LINE #	FLAG COLOR	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM			NA		
HOUSE CRN		NA	NA		
P. TANK		NA	NA		
1	ORANGE	NA	NA	58	58
2	BLUE	NA	NA	99	99
3	PINK	NA	NA	65	65
4	YELLOW	NA	NA	50	46
5	***ORANGE***	*NA*	*NA*	***44***	***44***
6	***BLUE***	*NA*	*NA*	***72***	***72***
7	***PINK***	*NA*	*NA*	***74***	***74***
8	***YELLOW***	*NA*	*NA*	***78***	***78***
9	***ORANGE***	*NA*	*NA*	***70***	***70***
10	***BLUE***	*NA*	*NA*	***63***	***62***
			Total	**673**	**668**

System	LINE LENGTH *400*	SYSTEM TYPE *ACCEPT.*	SOIL LTAR GPD/FT^2 *0.30*	TRENCH SYSTEM *25% RED.*	DISTRIBUTION *GRAVITY*
Repair	268	*MOD.*	0.30	PPBPS	LOW PRESSURE

Notes:

** TBM Is Not Required.

**All measures in feet

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

DOSING CALCULATIONS

Location Grand Bay

Lot No: Lot 39

No. of Bedrooms	4
Design Flow	480 $^{gal}/_{day}$
LTAR	0.30 $^{gal}/_{ft^2\ day}$
25% RED. Expansion? (YES OR NO)	YES
Supply Line Length	6 ft.
Supply Line Volume	2.16 gal.
Required Feet of 25% RED. Line	400 ft.
Amount of Line from Layout	400 ft.
Gallons per Minute	NA $^{gal}/_{min}$
Septic Tank Capacity	1000 gal.
Minimum Septic Tank Capacity	1000 gal.
Lateral Line Volume	261.2 gal.