

MICHAEL ATHANAS & ASSOCIATES
NORTH CAROLINA LISCENSED SOIL SCIENTEST
1999 CANDLEWICK DRIVE
FORT MILL, SOUTH CAROLINA 29715

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Attached is an onsite wastewater septic design for a 5 bedroom residential home on lot 437 Section 6 CL&T Subdivision in Iredell County, NC.

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July 16, 2010

CL&T SEC. 6 LOT 437
APPLICANT AND DESIGN SPECIFICATIONS

Applicant:	Jeff Hunt
Phone:	914-474-6130
Address:	1061 RT. 376 Wappinger Falls, NY 12590
County:	Iredell
Location:	CL&T sec. 6 lot 437
Application for:	5 Bedroom Single Family Residence
Gallons per day:	600
Linear feet:	336
Loading Rate (gpd/ft.2):	0.3
Trench Depth:	36"
Trench Width:	24"
Septic Tank Size:	1250
Pump Tank Size:	1250
Estimated Supply line Length/ft:	40
Supply Line Diameter:	2"
Dosing volume:	188.36
Lateral line volume:	280.80
Supply Manifold:	2"
Manifold Length:	N/A
Manifold Volume:	N/A
Pressure Head:	2
Friction Head:	2.00
Elevation Head:	6.20
Friction factor:	2.05
TDH:	11.73
Pump Run:	5.89
Threaded Union:	IN TANK
Gate Valves:	IN TANK
Check Valves:	IN TANK
Anti-Siphon Hole:	IN TANK
Design flow:	600
Trench Bottom FT/SQ:	672
Number of fields	1
Supply line length	40'
Draw down:	6.1
Comments:	Soil suitability was performed by Michael Athanas & Associates and Iredell County.

*Pump tank draw down based on 31 gallons per inch. Draw down may vary depending on tank manufacturers.

*Dosing volume base on 67% of lateral line volume.

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SYSTEM TYPE	**PPBPS**
SYSTEM LTAR	**0.3 GPD/FTSQ**
SYSTEM LINE LENGTH	**336**
REPAIR TYPE	*LP PPBPS*
REPAIR LTAR	*0.3 GPD/FTSQ*
REPAIR LINE LENGTH	*335*

LINE #	FLAG COLOR	SHOT ELEVATION	LINE LENGTH
1	PINK	4.60	40
2	***RED***	***4.80***	***56***
3	***RED***	***4.80***	***56***
4	***ORANGE***	***5.00***	***56***
5	***ORANGE***	***5.00***	***56***
6	***BLUE***	***5.20***	***56***
7	***BLUE***	***5.20***	***56***
8	RED	***3.20***	55
9	WHITE	***7.10***	120
10	PINK	***7.20***	120
		Total	**671**
TBM		***8.90***	
HOUSE CORNER		***3.70***	
TANK		***4.20***	

LINE#	COLOR	LENGTH	# OF PANELS
2	***RED***	**56**	**13**
3	***RED***	**56**	**13**
4	***ORANGE***	**56**	**13**
5	***ORANGE***	**56**	**13**
6	***BLUE***	**56**	**13**
7	***BLUE***	**56**	**13**
	TOTAL	**280**	**78**
HOLE SIZE	**5/32"**		
GALLONS PER MINUTE	**31.98**		