

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
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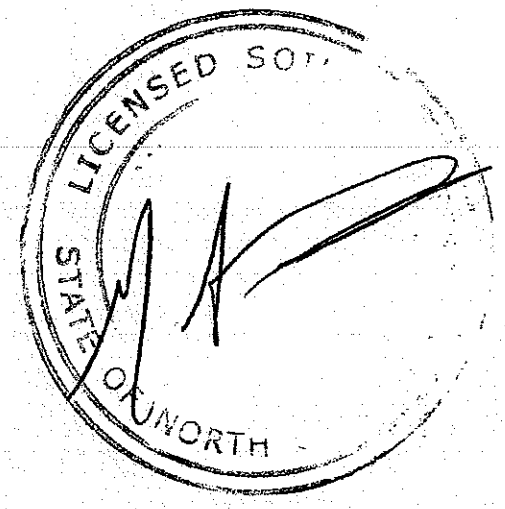
Reference: Data Sheet for 125 Culpepper Rd., Windy Hill Acres, Lot 19
House Footprint: See attached plan
Building Setbacks: 35' front/rear, 15' side
Water Source: County water
Number of Bedrooms: 3/360 GPD
Proposed LTAR: 0.3 GPD/FT2
Proposed System Type: PPBPS
Proposed Repair System Type: PPBPS
Distribution: Pressure manifold
Flow per Tap: 7.11 GPM
Tap Size: ½" SCH 40
System Flow: 21.33 GPM
Dosing Volume: 162 gallons
Pump Run Time: 7.6 minutes
Elevation Head: 11.7'
Friction Head: 1.4'
Pressure Head: 2'
Total Dynamic Head: 15.1'
Supply Line Length: 105' of 2" PVC
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 36"

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Line	Design Length	# of Panels	Actual Length	Elevation
Blue 1			30'	2.2'
Orange 2			52'	3.8'
White 3	**67'**	**15**	**72'**	**5.5'**
Red 4	**67'**	**15**	**96'**	**7.3'**
Blue 5	**67'**	**15'**	**100'**	**8.8'**
Orange 6			52'	9.5'
Yellow 7			32'	10.7'
Blue 8			37'	11.2'

Initial System: 201' **Repair System:** 203'
Pump Tank: 12.2' **House Corner:** 11.4' **Benchmark:** 8.7'

Comments:
This property was purchased as a foreclosure. The existing septic system is located on an adjacent lot that did not get included in the foreclosure. MA&A evaluated the property for a new septic system. There was a pool on the property that has been filled. The power pole in the back yard must be removed and the power line in the back yard needs to be moved to run along the property line.



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DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Shee
PROPERTY ID #
COUNT

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: ZIA Const. & Remodeling, LLC _____ APPLICATION DATE____
ADDRESS: 120 Oakwood Meadow Dr., Mooresville, NC 28117 _____ DATE EVALUATED: _
PROPOSED FACILITY: _3 BDRM____ PROPOSED DESIGN FLOW (.1949): _360 GPD_____ PROPERTY SIZE: __0.47 AC__
LOCATION OF SITE: 125 Culpepper Rd., Windy Hill Acres, Lot 19 _____ PROPERTY RECORDED: _6/13/19
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☒ Auger Boring ☒ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ M

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
PIT 1	LS 15%	0-17	R C SBK	FR SS SP SEXP	N/A	34"	F-C SAP PS	N/A	PS 0.3-0.4
		17-34	R CL WSBK	FR SS SP SEXP					
		34-60	L/SL SAP M	VFR SS SP SEXP					
PIT 2	LS 15%	0-9	Br SCL WSBK	FR SS SP SEXP	N/A	54"	N/A	N/A	PS 0.3
		9-36	R C SBK	FR SS SP SEXP					
		36-54	R CL WSBK	FR SS SP SEXP					
PIT 3	LS 15%	0-9	Br SCL WSBK	FR SS SP SEXP	N/A	57"	N/A	N/A	PS 0.3
		9-32	R C SBK	FR SS SP SEXP					
		32-57	R CL WSBK	FR SS SP SEXP					
PIT 4	LS 15%	0-5	FILL		N/A	44"	F-C SAP PS	N/A	PS 0.3
		5-23	R C SBK	FR SS SP SEXP					
		23-44	R CL WSBK	FR SS SP SEXP					
		44-61	SL SAP M	VFR SS SP SEXP					

Pit evaluations BR 9/x/16
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DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	402 FT2	406 FT2
System Type(s)	PPBPS	PPBPS
Site LTAR	0.3	0.3

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____PS_____
EVALUATED BY: _____MA&A_____
OTHER(S) PRESENT: _____

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: 4727595405
DATE OF EVALUATION:
COUNTY: IREDELL

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
AB 1	LS 15%	0-24	R C SBK	FR SS SP SEXP	N/A	48"	F-C SAP	N/A	PS 0.3
		24-48	R CL WSBK	FR SS SP SEXP					
AB 2	LS 15%	0-6	R Br SCL WSBK	FR SS SP SEXP	N/A	42"	F-C SAP	N/A	PS 0.3-0.35
		6-34	R C SBK	FR SS SP SEXP					
		34-42	R CL WSBK	FR SS SP SEXP					
		42-48	SL SAP M	VFR SS SP SEXP					
AB 3	LS 15%	0-8	Br SCL WSBK	FR SS SP SEXP	N/A	48"	N/A	N/A	PS 0.3
		8-40	R C SBK	FR SS SP SEXP					
		40-48	R CL WSBK	FR SS SP SEXP					
AB 4	LS 15%	0-26	R CL WSBK	FR SS SP SEXP	N/A	26"	Com SAP PS	N/A	PS 0.4-0.5
		26-60	L/SL SAP M	VFR SS SP SEXP					

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COMMENTS: