APPROVED APR 18 2016
BA



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
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Reference: Data Sheet for 111 Leesburg Ln. CL&T Sec 18, Lot 29
House Footprint: See attached plan
Building Setbacks: 35' front, 15' side, 50' lake
Water Source: Existing Well
Number of Bedrooms: 3/360 GPD
Proposed LTAR: 0.45 GPD/FT2 (initial), 0.15 GPD/FT2 (repair)
Proposed System Type: 25% Reduction
Proposed Repair System Type: TSII Pretreatment American Perc-Rite Drip
Distribution: Gravity-End cap/Drop box
Septic Tank Size: 1000 Gallons
Proposed Trench Bottom: 36" (initial), 6" (repair)

Line	Design Length	Actual Length
Pink 1	40'	48'
Blue 2	60'	72'
Pink 3	40'	46'
Yellow 4	35'	35'
White 5	25'	25'

Initial System: 200' **Repair System:** Existing System + 1000 FT2

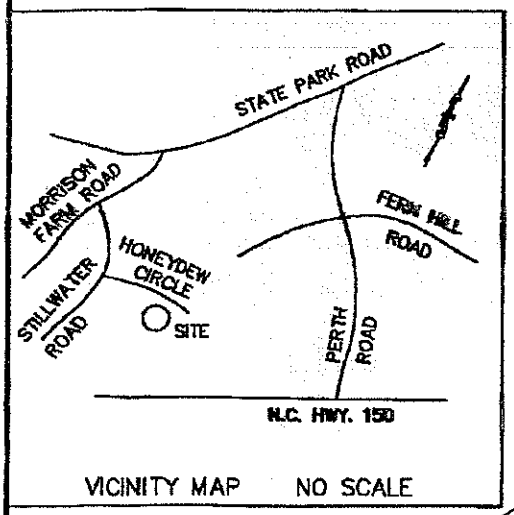
Comments:
This property has an existing bed system for a two bedroom residence. The bed encroaches on the 50' setback from the lake. The owners want a three bedroom septic system for the resale of the house. MA&A are proposing a new initial system. The existing septic tank will be disconnected and a new tank will be set. Because of the limited access to the area, a plastic tank will most likely be needed. The repair will use the existing two bedroom bed system and additional drip irrigation line with pretreatment to encroach on the lake setback.
The 100' well setback is marked in white flags. The septic tank is marked in orange flags.

plat book 13, page 49, that the ratio of precision is 1':10,000, that this map was prepared in accordance with the General Statutes of North Carolina, Chapter 89C. my hand and seal on the 2, day of MARCH, A.D. '20 16.

NORTH CAROLINA PROFESSIONAL SEAL L-2499 LAND SURVEYOR WILLIAM M. ALLEN

WILLIAM M. ALLEN, PLS

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VICINITY MAP NO SCALE

LAKE NORMAN

760' CONTOUR

S76°41'52"W 51.66'

S53°58'52"W 91.65'

761' CONTOUR

N36°26'08"W 62.56'

#4 REBAR

30' BUFFER FROM 760 CONTOUR

Repair Area

Ex. Boat

PB. 13 PG. 49

N17°13'08"W 50.84'

Ex. ST

Deck

LOT 29
0.79 AC.

House

(BASE BEARING) S24°58'00"E 215.78'

LOT 30
LESLIE M. THOMAS
2375/1485

N24°35'08"W 100.06'

Well

#4 REBAR

BENT #5 REBAR

Ex. DRIVE

S24°58'00"E 30.96'

N48°48'52"E 151.52'

(TIE ONLY) S48°54'20"W 115.17'

R/W

#5 REBAR

Well

LEESBURG LANE
30' R/W

BENT #5 REBAR

LOT 28
JACKIE LORRAINE KELLEY BEAVER
596/409

(TIE ONLY) N24°51'47"E 63.34'

PK NAIL IN THE IN

NOTES

1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENT AND/OR RIGHTS-OF-WAY OF RECORD.
2) AREA COMPUTED BY THE COORDINATE METHOD.
3) EXISTING 760' & 761' CONTOUR ELEVATION BASED ON LAKE NORMAN LAKE LEVEL AT COWAN'S FORD DAM (READING ON 3/2/16) ELEVATION: 757.00'
4) OVERHEAD POWER
5) NO GRID MONUMENT FOUND WITHIN 2000 FEET.

0' 20' 40' 100'

SCALE IN FEET

LEGEND
P.P. = POWER POLE
POWER TRANS.
E.I.P. = EXISTING IRON FOUND

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 4639066506
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
(Complete all fields in full)

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OWNER: Neal & Sarah Hertwick
ADDRESS: 111 Leesburg Ln., Troutman, NC
PROPOSED FACILITY: 3 bdrm
PROPOSED DESIGN FLOW (.1949): 360 GPD
LOCATION OF SITE: 111 Leesburg Ln., CL&T Sec 18 lot 29
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☒ Pit ☐ Cut

APPLICATION DATE
DATE EVALUATED:
PROPERTY SIZE: 0.79 AC
PROPERTY RECORDED: 5/5/1976

TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

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	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
AB 1	LS 8%	0-3	Br SCL WSBK	FR SS SP SEXP	N/A	26"	C-M SAP PS	N/A	PS 0.45
		3-26	R CL WSBK	FR SS SP SEXP					
		26-60	SL SAP M	VFR NS NP SEXP					
AB 2	LS 5%	0-6	FILL		N/A	0"	PS	N/A	PS 0.5
		6-60	SL SAP M	VFR NS NP SEXP					
AB 3	LS 10%	0-36	R CL WSBK	FR SS SP SEXP	N/A	36"	C-M SAP PS	N/A	PS 0.4
		36	SL SAP M	VFR NS NP NEXP					
AB 4	LS 10%	0-32	R CL WSBK	FR SS SP SEXP	N/A	32"	C-M SAP PS	N/A	PS 0.4
		32	SL SAP M	VFR NS NP NEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	600 FT2	1200 FT2 Add
System Type(s)	25% Reduction	DRIP
Site LTAR	0.45	0.15

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: MA&A
OTHER(S) PRESENT:

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

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PROPERTY ID #: 4639066506
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
P 1	LS 12%	0-16	R CL WSBK	FR SS SP SEXP	N/A	16"	C-M SAP PS	N/A	PS 0.45
		16-63	SL SAP M	VFR NS NP NEXP					
P 2	LS 5%	0-18	FILL		N/A	0"	PS	N/A	PS 0.5
		18-65	SL SAP M	VFR NS NP NEXP					

COMMENTS: