

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
361 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

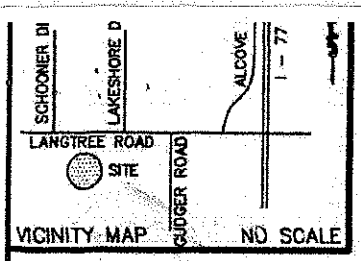
Reference: Data Sheet for 115 King's Crest Dr., Kings Landing Lot 32/29B
House Footprint: See Attached Plan
Building Setbacks: 35' front/rear, 15' side
Water Source: Community well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.3 GPD/FT2 (initial-ICHD), 0.1 GPD/FT2 (repair)
Proposed System Type: PPBPS
Proposed Repair System Type: Pretreatment Drip irrigation
Distribution: Pressure Manifold
Flow per Tap: TBD
Tap Size: TBD
System Flow: TBD
Dosing Volume: ~~TBD~~ 237.6 gallons (66 panels)
Pump Run Time: TDB
Elevation Head: 12.2'
Friction Head: TBD
Pressure Head: 2'
Total Dynamic Head: TBD
Supply Line Length: 150' (existing)
Septic/Pump Tank Size: 1000/1000 gallons (existing)
Proposed Trench Bottom: 36"
Proposed Trench Width: 24"

Line	Design Length	Actual Length	Elevation
Pink 1 (ex)	50'	50'	1.9'
White 2 (ex)	50'	50'	2.1'
Blue 3 (ex)	50'	50'	2.9'
Yellow 4 (ex)	50'	50'	3.8'
White 5	50'	50'	4.5'
Pink 6	45'	45'	5.2'

Initial System: 295' **Repair System:** 4800+ FT2
Pump Tank: 9.1' **House Corner:** 8.6' **Benchmark:** 1.6'

Comments:

The purpose of this evaluation was to increase the septic system to 4 bedrooms which is how the house is built. We are adding two PPBPS lines to the existing system and have identified a pretreatment drip irrigation area on adjacent land already purchased by the current owner. The pressure manifold is currently underground and the tap sizes have not been identified. The tap sizes can be identified at the time of installation. Be advised; the property(lot 32 and lot 29B) may need to be recorded as one lot.



L2	S 77°32'52" W	10.44'
L3	S 32°10'00" W	23.46'
L4	S 13°29'07" E	5.64'

L3499
LAND SURVEYOR
WILLIAM M. ALLEN

760 CONTOUR PER ACTUAL FIELD SURVEY

LAKE NORMAN

(PORTION LOT 29)
DAVID C. LUCERI
2033\41

S50°44'25"W
67.48

L1 L2 L3 L4

EIP

50' BUFFER FROM 760

S22°27'17"W
128.56

LOT 29-B
0.40 AC.
PIN #4634993917
1718\1858

173.38

S76°26'03"W

Repair Area

20' PUBLIC DRAINAGE EASEMENT

N09°11'59"W
156.52

#4 REBAR

PB. 24 PG. 148

LOT 31
TIMOTHY TODD
CARRETT
1040/1424

(BASE BEARING)
S18°47'06"E
172.38

35' REAR SETBACK

44.3'

CONC. PATIO

LOT 32
0.56 AC.

STAND BELOW

DECK

15' SIDE SETBACK

CONCRETE DRIVE

EXISTING HOUSE

64.2'

HC 8.6'

21.6'

18' SIDE SETBACK

N09°04'59"W
131.23

BRYAN PEACO
2198\1624

35' FRONT SETBACK

ST

35.5'

PT 9.4'

N60°56'50"E
153.14

PK NAIL

(TIE ONLY)
N 54°56'22" E
203.06'

(TIE ONLY)
N00°21'04"E
57.50

KING'S CREST DRIVE
(50 PUBLIC R\W)

50.00'

N61°08'38"E
63.72

EIP

Line	Design Length	Elevation
Pink 1 (ex)	50'	1.9'
White 2 (ex)	50'	2.1'
Blue 3 (ex)	50'	2.9'
Yellow 4 (ex)	50'	3.8'
White 5	50'	4.5'
Pink 6	45'	5.2'

LOT 40
RODGER A. ROSS
1230\183

ABHi
0-4 Br CL
WSBK
Fri SS/SP
4-30 RC SBK
Fri SS/SP
30-48 RCL
WSBK
Fri
SS/SP
.3
Fri SP Incl.

N09°16'33"W
116.87

SEWER V4 EASEMENT TO (A PORTION OF)

P6-45'
P5-50'
P4-52'
P3-52'
P2-52'
P1-52'

N09°11'52"W
116.70

N60°57'00"E
63.62

EIP

BM
1.6'

SARA H. TICE
1990\1825

AB H
0-4 Br CL WSBK
Fri SS/SP
4-48 RC SBK
Fri SS/SP
-3

0' 30' 60' 100'
SCALE IN FEET

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' CONTOUR ELEVATION BASED ON LAKE NORMAN LAKE LEVEL AT COWAN'S FORD DAM (READING ON 3\13\15)
4) UNDERGROUND POWER
5) NO GRID MONUMENT FOUND WITHIN 2000 FEET.

LEGEND

P.P. = POWER POLE
□ = POWER TRANS.
E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY
CP = COMPUTED POINT

MA
4-16-15

PHYSICAL SURVEY

OF

115 KINGS CREST DR.

LOT 32 AND LOT 29-B KINGS LANDING

SCALE 1" = 60'

DAVIDSON TWSP., IREDELL CO., N.C.

ACQUIRED BY: TERRY W. & PHYLLIS A. WERTZ

FIELD BOOK: 500-F
FILE: KINGS LANDING 32
DC FILE:
TAX MAP NO: 4635903130

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

Sheet __1__ *of* _1___
PROPERTY ID #: _____
COUNTY: _IREDELL_____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Phyliss Wertz **(Additional Soil Notes)**
_____ APPLICATION DATE_____
ADDRESS:_____ DATE EVALUATED: _____
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE:115 Kings Crest Dr., Lot 32_____PROPERTY RECORDED: __
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: *Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	LS 3%	0-4	Br. CL WSBK	FR SS/SP SEXP	N/A	48"	N/A	N/A	PS .3
		4-30	R C SBK	FR SS/SP SEXP					
		30-48	R CL WSBK	FR SS/SPS SEXP					
2	LS 3%	0-12	Br. SCL WSBK	FR SS/SP SEXP	N/A	48"	N/A	N/A	PS .3
		12-40	R C SBK	FR SS/SP SEXP					
		40-48	R CL WSBK	FR SS/SP SEXP					
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____

COMMENTS: Borings located in Expansion Area, 2 new lots

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

PROPERTY ID #: 4635903130/4634993917
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Phyllis Wertz APPLICATION DATE
ADDRESS: 115 King's Crest Dr., Mooresville, NC DATE EVALUATED:
PROPOSED FACILITY: 4 bdrm PROPOSED DESIGN FLOW (.1949): 480 GPD PROPERTY SIZE: 0.56/0.40 AC
LOCATION OF SITE: 115 King's Crest Dr., Kings Landing Lot 32/29B PROPERTY RECORDED:
WATER SUPPLY: ☐ Private ☒ Public ☒ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	LS 3%	0-2	BR CL WSBK	FR SS SP	F-C YB CHR 2 @ 22"	22"	N/A	N/A	PS 0.1 DRIP
		2-22	R C WSBK	FR SS SP					
2	LS 3%	0-4	BR CL WSBK	FR SS SP	F-C YB CHR 2 @ 24"	24"	N/A	N/A	PS 0.1 DRIP
		4-24	R C SBK	FR SS SP					
3	LS 3%	0-4	BR CL WSBK	FR SS SP	Few YB CHR 2 @30"	30"	N/A	N/A	PS 0.1 DRIP
		4-17	R C SBK	FR SS SP					
		17-30	RBr CL WBSK	FR SS SP					
4	LS 3%	0-18	BR CL WSBK	FR SS SP	YB @ 16" CHR 2 @ 18"	18"	N/A	N/A	PS 0.1 DRIP

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	590 FT2	4800+FT2
System Type(s)	PPBPS	DRIP
Site LTAR	0.3 (ICHD)	0.1

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

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: 4635903130/4634993917_
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	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
5	LS 3%	0-3	BR CL WSBK	FR SS SP	Mn/YB CHR 2 @ 29"	29"	N/A	N/A	PS 0.1 DRIP
		3-16	R C SBK	FR SS SP					
		16-29	RBr CL WSBK	FR SS SP					
6	LS 3%	0-4	BR CL WSBK	FR SS SP	Mn/YB CHR 2 @ 26"	26"	N/A	N/A	PS 0.1 DRIP
		4-26	YR C SBK	FR SS SP					
7	LS 3%	0-4	BR SL WSBK	FR SS SP	COM Mn CHR 2 @ 25"	25"	N/A	N/A	PS 0.1 DRIP
		4-16	R C SBK	FR SS SP					
		16-25	RBr CL WSBK	FR SS SP					

COMMENTS: _____