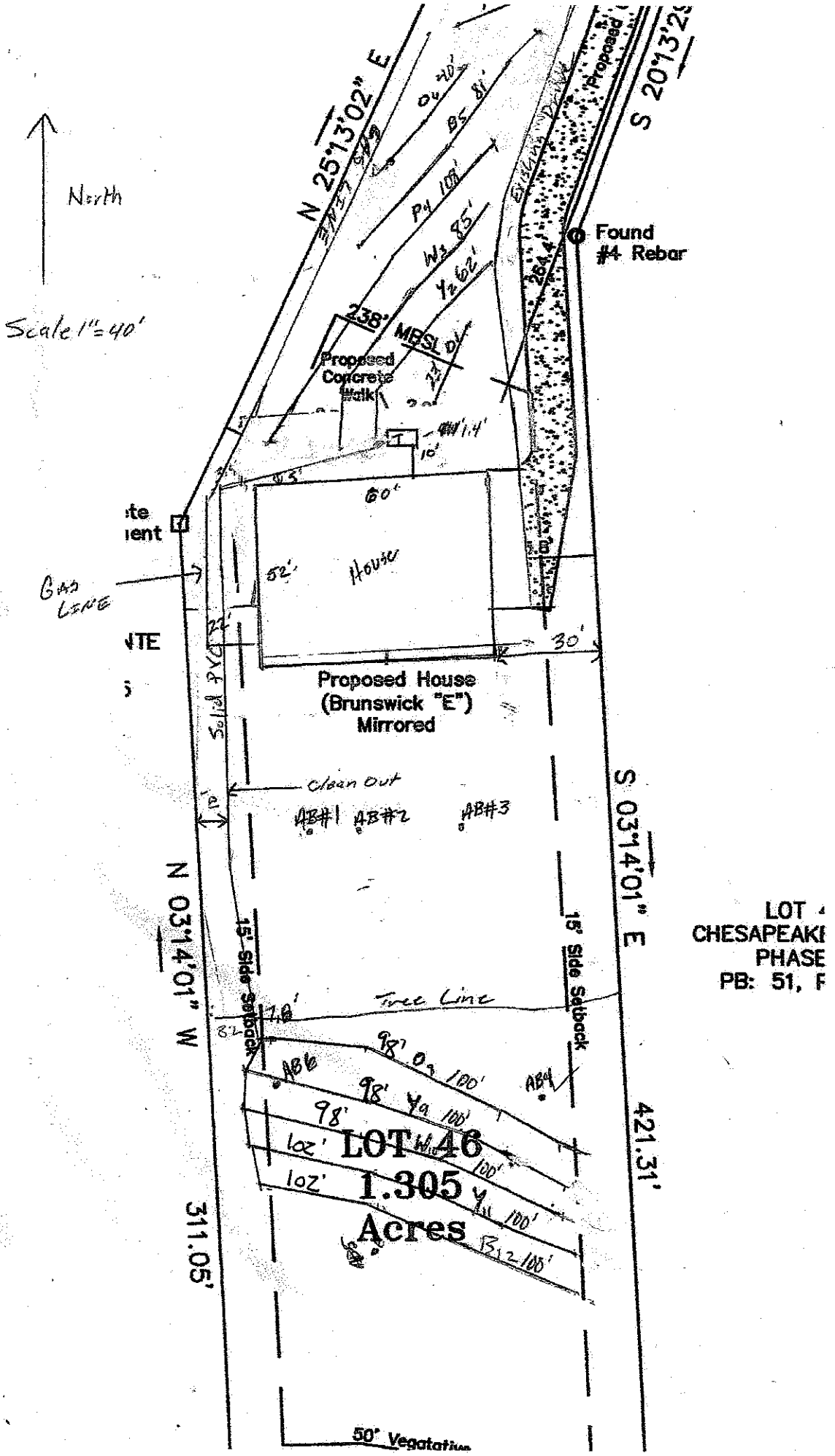

North
Scale 1"=40'
N 25°13'02" E
S 20°13'2
Found
#4 Rebar
264.4'
238'
MBSL
Proposed
Concrete
Walk
60'
52'
House
GAS
LINE
Proposed House
(Brunswick "E")
Mirrored
Clean Out
AB#1
AB#2
AB#3
S 03°14'01" E
N 03°14'01" W
311.05'
421.31'
15' Side Setback
Tree Line
AB6
AB4
LOT 46
1.305
Acres
50' Vegatation
LOT
CHESAPEAKE
PHASE
PB: 51, F



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

Reference: Data Sheet for Chesapeake Point Lot 46; Cove Creek Loop; Iredell County, NC
House Footprint: 70' x 60'
Building Setbacks: 35' front/35'rear/15' side
Water Source: Community Water
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.25 GPD/FT2 for Initial
Predetermined LTAR: 0.3 GPD/FT2 (ICHD) for Repair
Proposed System Type: 25% Reduction
Proposed Repair System Type: PPBPS
Distribution: Gravity-drop boxes/end cap
Septic Tank Size: 1000 gallons
Proposed Trench Bottom: 30"

Line	Design Length	Actual Length	Elevation
Orange 1		23'	
Yellow 2		62'	
White 3		85'	
Pink 4		108'	
Blue 5		81'	
Orange 6		40'	**G**
Yellow 7		25'	**R**
Orange 8	**100'**	**100'**	**A**
Yellow 9	**100'**	**100'**	**V**
White 10	**100'**	**100'**	**I**
Yellow 11	**100'**	**100'**	**T**
Blue 12	**100'**	**100'**	**Y**

Initial System: 500' **Repair System:** 424'

Comments:

The purpose of this evaluation is to change the permit to a 4-bedroom, 25% reduction system. The property was originally permitted in the front, but due to driveway construction and gas line installation, MA&A determined that the rear of the property was a preferred area of installation. There is approximately 5 feet of fall from the stub out to the septic area. The house is currently under construction. There is an area of fill below the back of the house and the system should be kept out of this area. No part of the repair system should be installed in the existing driveway.

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

PROPERTY ID #: Lot 46; Chesapeake Pointe
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: CP II LLC
ADDRESS: 3125 Presidential Parkway; Suite 200; Atlanta, GA 30340
APPLICATION DATE
DATE EVALUATED: 3/17/2015
PROPOSED FACILITY: 4-Bedroom Residence
PROPOSED DESIGN FLOW (.1949): 480 GPD
PROPERTY SIZE: 1.31 Acres
LOCATION OF SITE: Lot 46; Chesapeake Pointe Subdivision; Cove Creek Loop
PROPERTY RECORDED: 4/30/2007
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	
AB 1	L 1-2%	0"-24"+	Fill						Unsuitable
AB 2	L 1-2%	0"-24"+	Fill						Unsuitable
AB 3	L 1-2%	0"-24"+	Fill						Unsuitable
AB 4	L 6-7%	0"-12"	Br CL WSBK	SS SP FR NEXP		48"	Few to common saporlite inclusions.	None	.3
		12"-32"	R C SBK	SS SP FR NEXP					
		32"-48"	R CL WSBK	SS SP FR NEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1500 FT2	1272 FT2
System Type(s)	25% Reduction	PPBPS
Site LTAR	.25	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY: Michael Athanas and Associates
OTHER(S) PRESENT:

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: Lot 46; Chesapeake Pointe
DATE OF EVALUATION: 3/17/2015
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 #5	L 6-7%	0"-12"	Br SCL WSBK	SS SP FR NEXP	Few YBrs @ 39". Chroma 2 @ 42"	42"	n/a	None	.25
		12"-16"	R SCL WSBK	SS SP FR NEXP					
		16"-42"	R C SBK	SS SP FR NEXP					
AB #6	L 6-7%	0"-4"	R C SBK	SS SP FR NEXP	None	48"	n/a	None	.3
		4"-39"	R CL WSBK	SS SP FR NEXP					
		39"-48"	R CL WSBK	SS SP FR NEXP					

COMMENTS: _____

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

SOIL SITE EVALUATION
(Continuation Sheet)

Sheet of

PROPERTY ID NO.:
DATE OF EVALUATION:
COUNTY:

PROFILE #	1940 LANDSCAPE POSITION/ SLOPE %	HORIZON ON DEPTH (IN.)	SOIL MORPHOLOGY .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY .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
LOT 45 11 ADJACENT SPOIL PILE	summit 3-6%	0-24 BH1	scL MoSbk	fr ss sp	light red				
		24-35 BH2	C Mo SBK	fr ss sp	light red				
		35-54 BC	scL WkSbk	fr ss sp	light red	common sap inc.	loamy		.3 to 54"
LOT 45/46 14	terrace side slope .25 to 48"	0-11 BH1	scL MoSBK	fr ss sp	light red				
		11-22 BH2	sc moSBK	fr ss sp	yellow brown	red conc.	few to common Mn		
		22-30 BH3	sc moSbk	fr ss sp	yellow brown	red conc,			
		30-48 BH4	sc moSbk	fr ss sp	yellow brown	red conc.	yellow brown Mottles		
LOT 47 BACK 15	backslope	0-7 A	L MoSbk	fr ss sp	brown				
		7-18 BH1	scL MoSbk	fr ss sp	light red				
		18-36 BH2	C Mo SBK	fr ss sp	light red	common sap inc.	loam		
		36-52 BC	cl wkSbk	fr ss sp	light red	many sap inc.	loam		
LOT 48 BACK 20	backslope	0-6 A	L mo gr fr	fr ss sp	brown				
		6-24 BH1	cL MoSbk	fr ss sp	light red	few sap inc	loam		
		24-37 BH2	C Mo Sbk	fr ss sp	light red	common	loam		
		37-44 BC	cL wkSbk	fr ss sp	light red	many	sap inc (loam sap)		
LOT 49 MIDDLE 22	summit backslope	0-9 A	scL MoSbk	fr ss sp	brown		sap mt (loam sap)		
		9-28 BH1	cL MoSbk	fr ss sp	light red				
		28-40 BH2	C MoSbk	fr ss sp	light red	few sap inc			
		40-47 BC	cL wkSbk	fr ss sp	light red	few to common	sap inc		

COMMENTS:

MENT OF ENVIRONMENT AND NATURAL RESOURCES
L OF ENVIRONMENTAL HEALTH
ON-SI WASTEWATER SECTION

PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _____ APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: 7/26/06
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: Lot 46 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	2 10-15%	0-26	mabk c	FR SS/SP	2				PS 0.3
		26-48	wsbk cl	FR SS/SP	2 Fe Mn	sag mod	mod slakes		
2	L 4-6%	0-11	mgr sl	FR SS/SP	2.5Y br				PS 0.5
		11-20	mabk/sbk c	F SS/SP	2				
		20-48	wsbk cl	FR SS/SP	2 Fe Mn	sag	mod		
3									
4									

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

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

COMMENTS: _____

9-27-06

Pit

4bk 0-4 gr bwl sl fr

5bo 4-22 M-SBK mod c fr SBK

L 22-55 wk SBK mod pl+sp fr

.3

4bB 0-9 gr-wh sal bwl sl fr

9-52 SBK mod c fr SBK

52-56 wk SBK wk sp fr

.3