

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

Reference: Data Sheet for Chesapeake Point Lot 37
House Footprint: 35' x 80'
Building Setbacks: 35' front/50'rear/15' side
Water Source: Community Water
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.25 GPD/FT2
Predetermined LTAR: 0.3 GPD/FT2 for repair by ICHD
Proposed System Type: 25% Reduction
Proposed Repair System Type: PPBPS
Distribution: Gravity-drop boxes/end cap
Septic Tank Size: 1000 gallons
Proposed Trench Bottom: 24" for the initial system; 18" for repair

Line	Design Length	Actual Length
Orange 1		40'
White 2		70'
Blue 3	**100'**	**104'**
Orange 4	**100'**	**106'**
White 5	**100'**	**185'**
Blue 6	**100'**	**189'**
Orange 7	**80'**	**124'**

APPROVED JAN 27 2015

Initial System: 480' **Repair System:** 275'

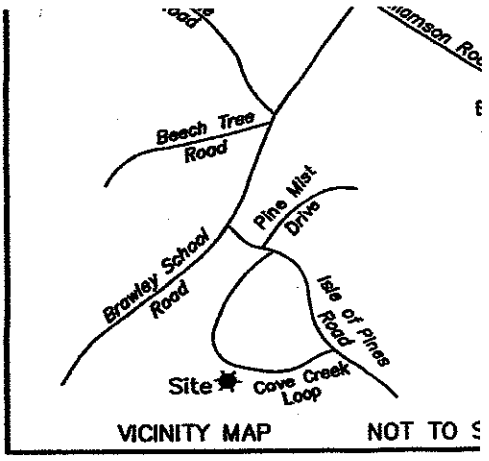
Comments:
The purpose of this evaluation was to permit a new location for the initial system. The previously permitted initial system will become the repair area. The loading rate for the repair area has been previously confirmed by the Iredell County Health Department. Please note the house location was located from the existing footers. A proposed pool location has been located using black pin flags.

JIMMY N. FAIRES, PLS
LICENSE NUMBER: L-4311

DIUS	ARC	CHORD BEARING	CHORD
.00'	170.00'	S17°39'39"E	169.29'

ARING	DISTANCE
57'19"W	1.46'
43'04"E	49.49'
00'18"E	54.60'
31'31"E	37.88'
13'17"E	48.77'
34'59"W	67.65'
40'11"E	8.41'

PRELIMINARY PLAN
NOT FOR RECORDATION, CONVEYANCES AND/OR SALES



COMMON OPEN SPACE
LOT 36
CHESAPEAKE POINTE
PHASE II
PLAT BOOK 51 PAGE 77

North
Scale 1"=50'

APPROVED JAN 27 2015

Initial System Permitted by ICHD. To be used as repair, Not Approved in the field.

Last Line 180 E

10' Septic Line Easement Plat Book 51 Page 15

N81°26'32"E 282.34'

15' Side Setback

LOT 37
1.466 ACRES

50' Vegetative Buffer

Proposed House
(Vancouver "B")

Pool

Deck

80.7'

102.9'

COVE CREEK LOOP
50' Public R/W
(Plat Book 51 Page 15)

S63°14'10"W 313.83'

15' Side Setback

LOT 38
CHESAPEAKE POINTE
PHASE III
PLAT BOOK 51 PAGE 15

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

PROPERTY ID #: Lot 37; Chesapeake Pointe
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

APPROVED JAN 27 ...

OWNER: CP II LLC
ADDRESS: 3125 Presidential Parkway; Suite 200; Atlanta, GA 30340
PROPOSED FACILITY: 4-Bedroom Residence
PROPOSED DESIGN FLOW (.1949): 480 GPD
LOCATION OF SITE: Lot 37; Chesapeake Pointe Subdivision; Cove Creek Loop
APPLICATION DATE
DATE EVALUATED: 11/05/2014
PROPERTY SIZE: 1.47 Acres
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 6-7%	0"-19"	R C SBK	SS SP FR NEXP		48"	Few to common saporlite inclusions.	None	.3
		19"-26"	R SL GR	NS NP VFR NEXP					
		26"-36"	RBr C SBK	SS SP FR NEXP					
		36"-48"	RBr CL WSBK	SS SP FR NEXP					
AB 2	L 6-7%	0"-9"	RBr SL GR	NS NP VFR NEXP		48"	Few to common saporlite inclusions.	None	.3
		9"-48"	R CL WSBK	SS SP FR NEXP					
AB 3	L 6-7%	0"-19"	R CL WSBK	SS SP FR NEXP	Chroma 2 at 36"	36"	Few to common saporlite inclusions.	None	.25
		19"-36"	RBr CL WSBK	SS SP FR NEXP					
AB 4	L 6-7%	0"-12"	R SL GR	NS NP VFR NEXP		48"	Few to common saporlite inclusions.	None	.3
		12"-24"	R C SBK	SS SP FR NEXP					
		24"-48"	R CL WSBK	SS SP FR NEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1440 FT2	825 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 37; Chesapeake Pointe
DATE OF EVALUATION: 11/05/2014
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
AB #5	L 6-7%	0"-8"	R C SBK	SS SP FR NEXP	YBrs and Mn at 31"	48"	n/a	None	.25
		8"-48"	R CL WSBK	SS SP FR NEXP					
AB #6	L 6-7%	0"-15"	R C SBK	SS SP FR NEXP	Mn at 24" and YBrs at 31"	48"	n/a	None	.25
		15"-48"	R CL WSBK	SS SP FR NEXP					
AB #7	L 6-7%	0"-12"	R C SBK	SS SP FR NEXP		40"		None	.3
		12"-40"	R CL WSBK	SS SP FR NEXP					
AB #8	L 6-7%	0"-18"	R C SBK	SS SP FR NEXP		40"	Few to Common Saporlite inclusions.	None	.3
		18"-22"	R SL GR	NS NP VFR NEXP					
		22"-33"	RBr L GR	NS NP VFR NEXP					
		33"-40"	RBr CL WSBK	SS SP FR NEXP					

COMMENTS: _____

APPROVED JAN 27 2015

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S&ME, INC.

SITE/SOIL EVALUATION

Project No. 1588-04-011 **Phone No.** _____ **Date:** 2/23/04
Location Cles Point **Pin** _____ **County:** Iredell **Property Size** _____

Proposed Facility: Houses **Water Supply:** On-Site Well ☐ Community ☒ Public ☐ **Evalulations:** Auger Boring ☐ Pit ☒ Cut ☐

Weather: 50°F PCloudy Rain in AM **Antecedent Moisture** (37) **Surface Water:** _____

Lot 39 Front Lot 41 Lot 43 Back

FACTORS	PROFILE 1 - AM	PROFILE 3	PROFILE 5	PROFILE 8
Landscape Position %	L	L	L	L
Horizon Depth I	0-16	0-14	0-11	0-8
Color Munsell	Br	Br	4 Red Br	Red Br
Texture	SL/SCL	SCL	SCL	SL
Structure	WK SBK	WK SBK	WK SBK	MO GR
Consistence	FR SS/SP	FR SS/SP	FR SS/SP	FR SS/SP
Boundary				
Horizon Depth II	16-20	14-33	11-36	8-23
Color – Munsell	Red	Red	Red	Br
Texture	C	C	C	SL
Mottles	F MICA	FF Mn	F Yel Br	—
Structure	MO SBK	MO SBK	MO SBK	WK SBK
Consistence	FR SS/SP	FR SS/SP	FR SS/SP	FR SS/SP
				F Rocks
Boundary				
Horizon Depth III	20-24	33-48	36-50	23-28
Color – Munsell	Red	Red	Red	Br
Texture	C	CL	SCL	SCL
Mottles	C Yel/Pale Br	F/C MICA	F mica/F Sap	F Mn
Structure	MO SBK	WK/MO SBK	WK SBK	WK SBK
Consistence	FR SS/SP	FR SS/SP	FR SS/SP	FR SS/SP
				F Rocks
Boundary				
Horizon Depth IV	24-38			28-36
Color – Munsell	Red			Red
Texture	C			SC
Mottles	C Yel Br Ch 2/5			F Yel Br
Structure	MO ABK			MO SBK
Consistence	FR SS/SP			FR SS/SP
Boundary	38-48			36-48
Soil Wetness	Yel Br			Red
Restrictive Horizon	SCL			SC
Saprolite	C Chri 2/5			C Chroma 2/Yel Br
LTAR	WK SBK			MO SBK
Classification	FR SS/SP			FR SP
	.2 to 24"	.3 to 48"	.25-.3 to 48"	.25 to 36"

LEGEND

LANDSCAPE POSITION

R	Ridge Interfluve
S	Shoulder
L	Linear Slope
S	Foot Slope
N	Nose Slope
H	Head Slope
Cc	Conclave Slope
Cv	Convex Slope
T	Terrace
P	Flood Plain

TEXTURE

s	sand
ls	Loamy sand
sl	sandy loam
l	loam
si	silt
sil	silt loam
sicl	silty clay loam
cl	clay loam
scl	sandy clay loam
sc	sandy clay
sic	silty clay
c	clay

CONSISTENCE WET

Ns	non-sticky
Ss	slightly sticky
S	sticky
Vs	very sticky
Np	non-plastic
Sp	slightly plastic
P	plastic
Vp	very plastic

MOIST

vfr	Very friable
fr	friable
fi	firm
vfi	Very firm

STRUCTURE

sg	single grain
m	massive
cr	crumb
gr	granular
sab	subangular blocky
ab	agular blocky
pl	platy
pr	prismatic

SOIL/SITE EVALUATION
(Continuation Sheet)

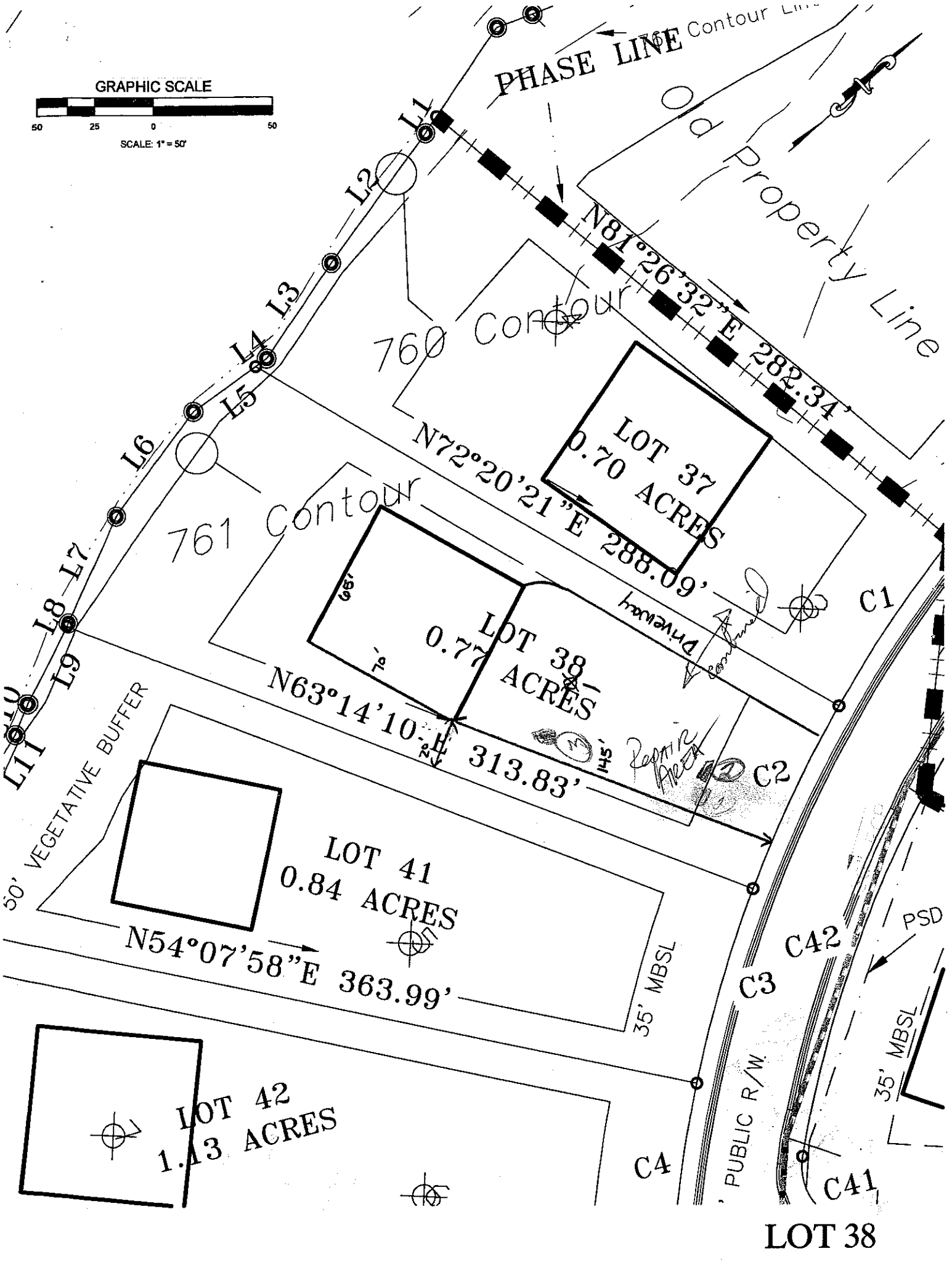
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DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

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
2 AMENITY	backslope 4-6% PS .2 to 35"	A 0-3	Loam MOGR	FR SS SP	brown	—	—	—	
		BA 3-11	SCL MOSBK	FR SS SP	light red				
		Bt 2 11-27	C MOABK	FI ST PL	red	few → yellow brown mottles			
		Bt3 27-35	C MOABK	FI ST PL	red	common yellow brown mottles			
		Bt4 35-48	C WK-MO ABK	FI ST PL	red	common → many chroma 2 mottles			
LOT 39 (31) BACK	4-6% footslope terrace PS .2 to 27"	A 0-5	SL MOGR	FR SS SP	brown				
		Bt 5-20	C MOSBK	FR SS SP	light red				
		Bt 20-27	C MOABK	FI ST PL	red	few yellow brown and Mn			
		Bt3 27-49+	C MOABK	FI ST PL	red	few → common chroma 2			7.5YR 5/2
					WATER	AT 48"			
LOT 42 FRONT 6 PIT LOOK AT	4-6% backslope .25 to 52"	A 0-6	SL MOGR	FR SS SP	brown				
		Bt1 6-17	SCL MOSBK	FR SS SP	light red				
		Bt2 17-31	C MOSBK	FI ST PL	light red	few to common		yellow brown moth	
		BC 31-52+	C WKSBK	FI ST PL	light red	wet common to many		Sap inc.	
LOT 42 7 BACK	3-6% terrace .2 to 46"	0-10 Bt	SCL MOSBK	FR SS SP	light red	common med Holes			
		10-20 Bt	SCL MOSBK	FR SS SP	yellow brown				
		20-32 BC	SC WK SBK	FR SS SP	yellow brown GR				
		32-46 BC	SC WK SBK	FR SS SP	GR yel Br; yel Dep Red Conc				red conc
		46-48 BC	SC WK SBK	FR Water @ 48"	chroma 2's GR yel Br Matrix				
LOT 45 FRONT 10	~~backslope~~ 4-6% summit .3 to 42"	0-16 Bt1	SCL MOSBK	fr SS SP	light red	= both many fine mica			
		16-35 Bt2	C MOSBK	fr SS SP	light red				
		35-42+ BC	CL WKSBK	fr SS SP	light red				

COMMENTS:


GRAPHIC SCALE
50 25 0 50
SCALE: 1" = 50'
PHASE LINE
Old Property Line
760 Contour
761 Contour
N81°26'32"E 282.34'
N72°20'21"E 288.09'
N63°14'10"E 313.83'
N54°07'58"E 363.99'
LOT 37
0.70 ACRES
LOT 38
0.77 ACRES
LOT 41
0.84 ACRES
LOT 42
1.13 ACRES
L1
L2
L3
L4
L5
L6
L7
L8
L9
L10
L11
C1
C2
C3
C4
C41
C42
50' VEGETATIVE BUFFER
35' MBSL
35' MBSL
PSD
PUBLIC R/W
Driveway
Repair Area
LOT 38

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

Sheet ___ of ___
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Chesapeake Pointe — APPLICATION DATE _____
ADDRESS: _____ — DATE EVALUATED: 9/12/06
PROPOSED FACILITY: _____ — PROPOSED DESIGN FLOW (.1949): _____ — PROPERTY SIZE: _____
LOCATION OF SITE: Lot 38 (new part of Lot 37) — 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) .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
1	L 8-10%	0-6	wsbk scl	FR ss/sp	RB				PS 0.3
		6-20	msbk c	FR ss/sp	R F; Mica flakes				
		20-48	wsbk cl	FR ss/sp	R F: [illegible] C; Mica flakes				
2		0-3	gr brwn scl	fr					~3
		3-8	mk sbk scl	fr ss sp					
		8-56	mod mk sbk	fr ss sp sap					
3		0-7	wk sbk scl	fr ss sp					~3
		7-36	mod mk sbk c	fr ss sp sap					
		36-48	wk sbk scl	fr ss sp					
4									

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

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

COMMENTS: _____