Department of Environment, Health and Natural Resources Division of Environmental Health On-Site Wastewater Section

Sheet: Property ID: Lot #: File #: Code:

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Available Space (.1945) System Type(s) Site LTAR

Water Evalua		Aug	D D Pi ⊠Public	☐ Pit	Well Curial Process	Property Siz Spring Mixed	ze:	er			
P R O F I	.1940		SOIL	MORPHOLOGY .1941			OTHER ROFILE FACTOR	LS.			
L E #	Landscape Position/ Slope %	Horizon Depth (In.)	.1941 Structure Texture		w	1942 Soil etness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR	
)	10-15	020	615								
		2040	SBX C							P5	
3		0-12	615							8	
-6		12-	58K 4		1000	7 be 24"				VS	
											_
							-				
-											
											7
									1		
Description Initial System				Repair System	Other Fac Site Classific	ctors (.1946): cation (.1948):					

Evaluated By:

Others Present:

COMMENTS: ____

LANDSCAPE POSITIONS	GROUP	TEXTURES	. <u>1955 LTAR</u>	CONSISTENCE MOIST	WET
R-RIDGE S-SHOULDER SLOPE L-LINEAR SLOPE	I	S-SAND LS-LOAMY SAND	1.2 - 0.8	VFR-VERY FRIABLE FR-FRIABLE	NS-NON-STICKY
FS-FOOT SLOPE N-NOSE SLOPE H-HEAD SLOPE	П	SL-SANDY LOAM L-LOAM	0.8 - 0.6	FI-FIRM VFI-VERY FIRM EFI-EXTREMELY FIRM	SS-SLIGHTY STICKY S-STICKY VS-VERY STICKY
CC-CONCLAVE SLOPE CV-CONVEX SLOPE T-TERRACE FP-FLOOD PLAN	Ш	SI-SILT SIL-SILT LOAM CL-CLAY LOAM SCL-SANDY CLAY LOAM	0.6 - 0.3		NP-NON-PLASTIC SP-SLIGHTLY STICKY P-PLASTIC VP-VERY PLASTIC

STRUCTURE SG-SINGLE GRAIN M- MASSIVE CR-CRUMB GR-GRANULAR SBK-SUBANGULAR BLOCKY ABK-ANGULAR BLOCKY

PL-PLATY PR-PRISMATIC MINERALOGY SLIGHTLY EXPANSIVE

SC-SANDY CLAY

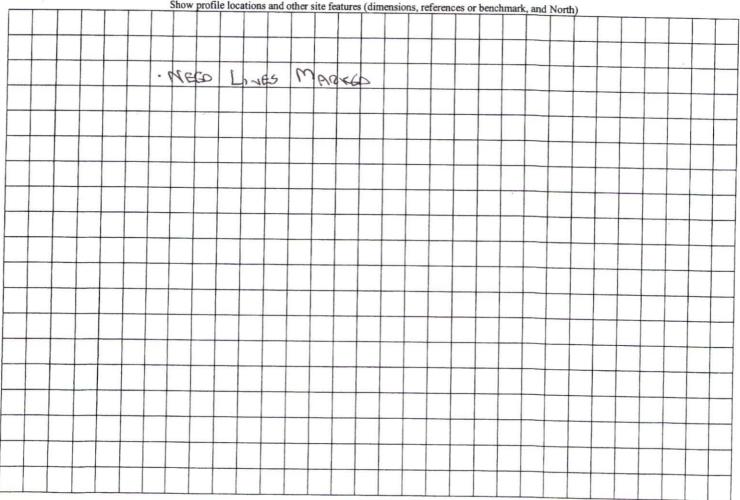
SIC-SILTY CLAY 0.4 - 0.1

EXPANSIVE

C-CLAY

IV

Show profile locations and other site features (dimensions, references or benchmark, and North)



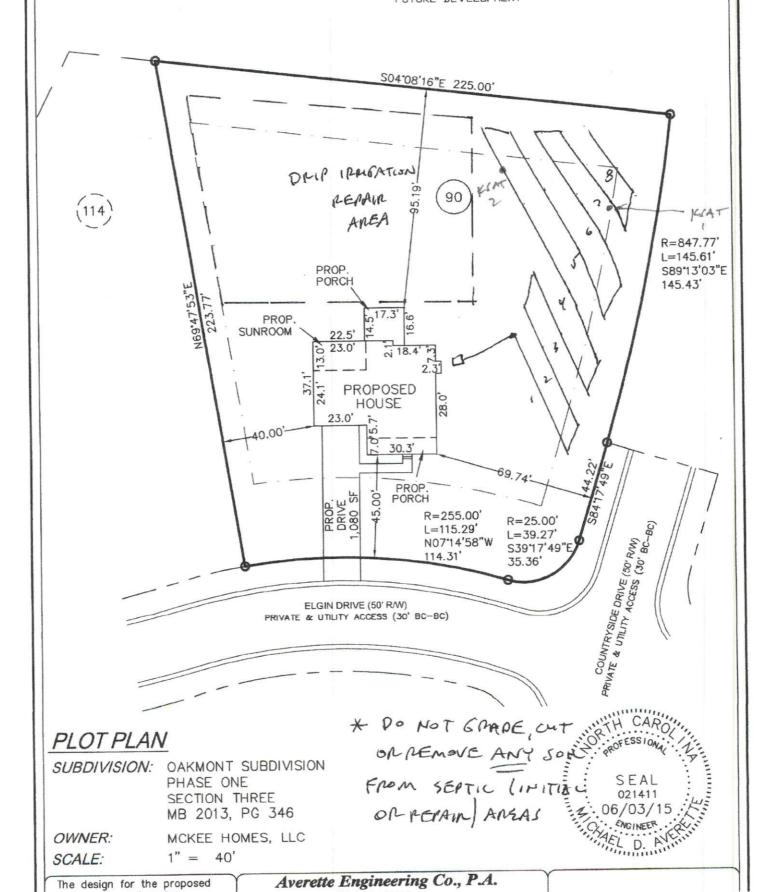
SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOC., INC.

PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

SUBDIVISION: OHRMON I LOW PROFI		101 90
INITIAL SYSTEM: /NFILTNATON G	acky (ep)	REPAIR DRIP (IRRIGATION) PRETE
DISTRIBUTION: SERIAL		DISTRIBUTION TBD
BENCHMARK: 100.0	CONTROL MARKAGA AMARKA CONTROL	LOCATION RC 90/RDAO
NO. BEDROOMS: 4		LTAR 0.3 4/0/FTL
LINE FLAG COLOR	ELEVATION	LENGTH
)	
/ 1 B	115,34	60'
/ 2 P	114,17	60
. 3 B	112,84	65 1
-tal 4	111,58	115'
system 5 B	110.17	90'
3 da / 6	188.84	80'
(? B	107.42	50'
В	106645	30'
		545'
BY M EAKER		DATE 08/2015
TYPICAL PROFILE	Q	THERE SHALL BE NO GRADING,
0-10 gls (VF, wg.)	/	CUTTING, LOGGING OR OTHER SOIL
12-26 10c (Figurtish		DISTURBANCE IN SEPTIC AREA
,		DO NOT REMOVE ANY SOIL
26+ Pm (see write	e 10	CAREFUL CLEANING IS
INSTALL AT 8"	ON CON SIDE	REQUIRED
AON 6" COVER W	***	INEO
BY HEAUTH D	CAT.	

N/F M & JM, LLC DB 2281, PG 145 PROPOSED SEPTIC

FUTURE DEVELOPMENT





Infiltrator Quick4 Plus Standard LP Chamber in North Carolina

The purpose of this product information sheet is to provide specific design and installation information pertinent for the use of Infiltrator Quick4 Plus Standard Low Profile (LP) chamber in North Carolina. Infiltrator products must be used in conjunction with the standards described in the North Carolina Rule 15A NCAV 18A.1900 and Infiltrator's innovative wastewater system approval (www.deh.enr.state.nc.us). This document provides a brief description of the chamber and sizing specifications. For more detailed design information, please contact Infiltrator Systems at 1-800-221-4436.

The Quick4™ Plus Standard Low Profile (LP) chamber model can be installed in 36-inch-wide trench. The Quick4 Plus Standard LP chamber is 4 inches shorter than other standard models, allowing for shallower installation. The Quick4 Plus chamber offers advanced contouring capability and superior strength through its center structural columns.

The Quick4 Plus All-in-One Endcap and the Quick4 Plus Endcap are available with this chamber, providing increased flexibility in system configurations. The Quick4 Plus endcap systems allow multi-directional piping through several points and allows inletting at the top of the endcap. The Quick4 Plus Endcap can also be installed mid-line within a chamber row for center-fed beds or trenches.

Quick4 Plus Standard Low Profile (LP) Nominal Chamber Specifications

Size (W x L x H)	34" x 48" x 8"
Storage	32 gal (4.3 ft ³)
Equivalency Rating/Sizing	3.0 ft²/lf



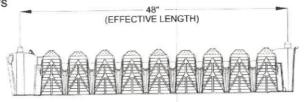


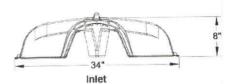
QUICK4 ALL-IN-ONE

QUICK4 PLUS

QUICK4 PLUS STANDARD LP CHAMBER SIDE AND END VIEWS

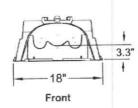
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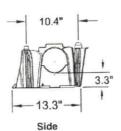




QUICK4 PLUS ALL-IN-ONE ENDCAP SIDE AND END VIEWS

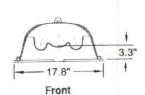
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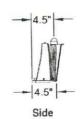




QUICK4 PLUS ENDCAP SIDE AND END VIEWS

(Not to scale)





Southeastern Soil & Environmental Associates, Inc.

P.O. Box 9321 Fayetteville, NC 28311 Phone/Fax (910) 822-4540 Email mike@southeasternsoil.com

August 7, 2015

Harnett County Health Department 307 Cornelius Harnett Blvd. Lillington, NC 27546

Re: Hydraulic conductivity (Ksat) analysis for proposed subsurface waste disposal system, Oakmont Subdivision, Lot 90, Harnett County, North Carolina

To whom it may concern,

An evaluation of soil and hydraulic conductivity (Ksat) has been conducted on the aforementioned property. The purpose of the investigation was to help determine soil absorption rates for a proposed low profile chamber septic system to serve a 4 bedroom single family residence. All ratings and determinations were made in accordance with "Laws and Rules for Sanitary Sewage Collection, Treatment, and Disposal, 15A NCAC 18A .1900".

Two compact constant head permeameter (CCHP) measurements were made to help determine a Ksat rate at depths of 23 (Bt) and 44 (C) inches. The Ksat measurement in the C horizon was 0.304 cm/hr. The measurement in the Bt horizon was 0.860 cm/hr. These equate to 1.79 and 5.06 gpd/sq.ft. Using 10% of this average in the Bt horizon (typical for systems without pretreatment), Ksat measurement equates to 0.51 gpd/sq.ft.

Our system is based on a proposed 0.30 gpd/sq. ft. which is considerably less than the measured rate. Based on our measurements (and assuming proper installation), the proposed rate should allow for sufficient drainage from the proposed system.

Sincerely,

Mike Eaker President

