### SOUTHEASTEN SOIL & ENVIRONMENTAL ASSOC, INC.

### PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

		1 1 6		:3	
	SUBDIVISIO			LOT 13	,
	INITIAL SYS	O-ben (1-3)	W/ 6" COVER	REPAIR DUP IPPERATION	No PRETI
	DISTRIBUTI		4)	DISTRIBUTION	
	BENCHMAR	K 100.0	1 7	LOCATION Front corner	13/1
	NO. BEDRO	OMS 3			12
			P	reported LTAR = 0.25 gpd/f	+-
	LINE	FLAG COLOR	ELEVATION	ACTUAL LENGTH	
	1/ 1	В	96,84	160'	
. 1 .	5-2	0	96.25	160'	
Intiel	2 3	В	95.75	160'	•
2	4	0	95,25	140	-
1-2				122 AVAR	4
		90.5			-
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	<b>1</b>				-
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	Co.				
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			8 gr		
	RV		DATE	* j.	

# Southeastern Soil & Environmental Associates, Inc.

P.O. Box 9321 Fayetteville, NC 2B311 Phone/Fax (910) 822-4540 Email meaker3851@aol.com

January 9, 2008

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

Re: Hydraulic conductivity (Ksat) analysis for proposed subsurface waste disposal system, Thornton's Creek Subdivision, Lot 13, 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 determine soil absorption rates for a proposed 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 determine a Ksat rate at depths of 22 and 25 inches (Bt and BC horizons). The lowest Ksat measurement was 0.558 cm/hr. This equates to 2.69 gpd/sq. ft. Using 10% of the Ksat measured equates to 0.26 gpd/sq. ft. (typical for domestic disposal without pretreatment).

The proposed system is based on a 0.25 gpd/sq. ft. application rate which is considerably less than the measured rate. This rate should allow for sufficient drainage from the proposed system.

The system sizing is as follows:

480 gpd @ 0.25 gpd/sq. ft. = 1920 sqft 1920 sqft / 3 = 640 linear feet of 2 foot infiltrator spaced on 6 foot centers.

It is imperative that no grading, rutting, etc. occur in the area of the proposed septic field. I trust this is the information required at this time. Please call if you have any questions.

Sincerely,

Mike Eaker

Mil EL President

## Southeastern Soil & Environmental Associates, Inc.

P.O. Box 9321 Fayetteville, NC 28311 Phone/Fax (910) 822-4540 Email meaker3851@aol.com

THOMNTONS CHEEK

PROPOSED SEPTIL LAYOUT DRIP REPAIR NEEDED

THOUSE LOCATION MAY CHANGE

N.T.S.

+1. 4000 L+

SOUTHEASTEN SOIL & ENVIRONMENTAL ASSOC, INC.

### PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

SUBDIVISION Thor	tons Creek	LOT	13
INITIAL SYSTEM 2'	INFLETRATOR AT GRAN	E REPAIR	PRIF IRRIGATION (NO
DISTRIBUTION	EFIAL		BUTION
BENCHMARK	100.0	LOCAT	JON FROM COENER 13/14
NO. BEDROOMS	3	proposed	LTAR = 0.25 grd (ft <sup>2</sup>
LINE FLAG	COLOR ELEV	ATION ACTU	AL LENGTH
!	91.	84	100'
2 0	96.	น	150
3 B	95,	75	150'
_1	95,		100'
5 0	94.		90/
6 0	94.7	15	50 /
		8	TYO AVAILABLE
SOME CHAO	MA & MOTHES	AT 20-26"	
BY MEAVER		DATE 01/09/08	, "