

# Fax Cover Sheet

SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOCIATES, INC.

PO BOX 9321  
FAYETTEVILLE, NC 28917  
910 822 4540 PHONE  
910 822 4540 FAX

Send to: <b>Travis</b>	From: <b>Mike Eaker</b>
Attention:	DOB: <b>7/5/06</b>
Office Location:	Office Location:
Fax Number:	Phone Number: <b>822-7540</b>

- Urgent
- Reply ASAP
- Please comment
- Please Review
- For your information

cc: Joe West

Total pages, including cover: **5**

Comments:

proposal for lot 63 Forest Oaks.

Please revise plot plan + house plan +  
submit to Joe West

# Southeastern Soil & Environmental Associates, Inc.

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

July 3, 2006

Harnett County Health Dept.  
PO Box 09  
Lillington, NC 27546

Re: Hydraulic conductivity (Ksat) analysis for pretreatment (repair area), Forest Oaks  
Subdivision, Lot 63, Sawtooth Oak Circle, 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 repair septic system to serve a 3 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".

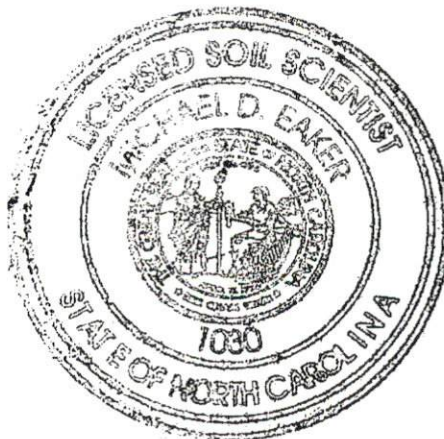
Two compact constant head permeameter (CCHP) measurements were made to determine  
a Ksat rate at depths of 20 to 26 inches (Bt horizon). The two Ksat measurements in the  
Bt horizon averaged 1.39 cm/hr. This equates to 8.16 gpd/sq. Ft. Using 10% of this  
average (typical and higher for systems with pretreatment), Ksat measurement equates to  
0.816 gpd/sq. ft.

The proposed repair system is based on a 0.48 gpd/sq. ft. which is considerably less than  
the measured rate. In fact, this rate is about 6% of the measured rate and should allow for  
sufficient drainage from the proposed system.

Sincerely,



Mike Eaker  
President



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

TE EVALUATED: \_\_\_\_\_  
PROPERTY I.D. # \_\_\_\_\_  
PROPERTY RECORDED \_\_\_\_\_

SITE/SOIL EVALUATION  
FOR  
ON-SITE WASTE WATER

APPLICANT: Caviness PHONE: \_\_\_\_\_ APPLICATION DATE: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
COUNTY: Harratt PROPERTY SIZE: \_\_\_\_\_ PROPOSED FACILITY: \_\_\_\_\_  
LOCATION OF SITE: Forest Oaks  
WATER SUPPLY: On-Site Well \_\_\_\_\_ Community \_\_\_\_\_ Public  Other \_\_\_\_\_ EVALUATION BY: Auger Boring  Pit \_\_\_\_\_ Cut \_\_\_\_\_

FACTORS		63				PROFILES 54					
		SB1	SB2	SB23	SB4	5	SB1	SB2	SB3	9	10
LANDSCAPE POSITION	.1940	LS	LS	LS	LS		LS	LS	LS		
SLOPE (%)	.1940	5.1	6.1	7.1	5.1		2.1	2.1	2.1		
HORIZON 1 DEPTH		0-44	0-24	0-27	0-30		0-18	0-14	0-13		
Texture Group	.1941(A)(1)	LS/S	LS/S	LS/S	LS/S		LS/S	LS/S	LS/S		
Consistence	.1941	VFr	VFr	VFr	VFr		VFr	VFr	VFr		
Structure	.1941(A)(2)	m/c	m/c	m/c	m/c		m/c	m/c	m/c		
Mineralogy	.1941(A)(3)	NEx	NEx	NEx	NEx		NEx	NEx	NEx		
HORIZON-2 DEPTH		44-78	24-36	27-32	30-40		18-30	14-20	13-20		
Texture Group	.1941(A)(1)	SCL	SCL	SCL	SCL		SCL	SCL	SCL		
Consistence	.1941	Fr	Fr/H	Fr	Fr		Fr	Fr	Fr		
Structure	.1941(A)(2)	sh/c	sh/c	sh/c	sh/c		sh/c	sh/c	sh/c		
Mineralogy	.1941(A)(3)	SEx	SEx	SEx	SEx		SEx	SEx	SEx		
HORIZON 3 DEPTH				32-48							
Texture Group	.1941(A)(1)			Clay							
Consistence	.1941			Fi							
Structure	.1941(A)(2)			sh/c							
Mineralogy	.1941(A)(3)			SEx							
HORIZON 4 DEPTH											
Texture Group	.1941(A)(1)										
Consistence	.1941										
Structure	.1941(A)(2)										
Mineralogy	.1941(A)(3)										
SOIL WETNESS	.1942	748	26"	33"	42"		26"	27"	25"		
RESTRICTIVE HORIZON	.1944	-									
SAPROLITE	.1943/1956	-	recess	recess							
CLASSIFICATION	.1948	PS	PS	PS	PS		PS				
LONG TERM ACCEPTANCE RATE	.1955	0.8	0.5	0.4	0.4		0.3	0.5	0.3		
AVAILABLE SPACE (1945):						SITE LONG TERM ACCEPTANCE RATE:					
OTHER FACTORS (1946):						SYSTEM TYPE:					
SITE CLASSIFICATION (1948):						OTHERS PRESENT:					
EVALUATED BY:											
COMMENTS:		300 cf initial 300 cf repair									

SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOC., INC.

PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

SUBDIVISION Forest Oaks LOT 63

INITIAL SYSTEM pump to 2' INFILTRATOR REPAIR SYSTEM pump to 2' INFILTRATOR  
w/pretreatment

BENCHMARK ELEV. 100.0 LOCATION Front corner 62/63

TYPE OF DISTRIBUTION pump to d-box (serial distribution)

proposed LTAR = 0.4 gpd/ft<sup>2</sup>  
 repair = 0.48 gpd/ft<sup>2</sup>

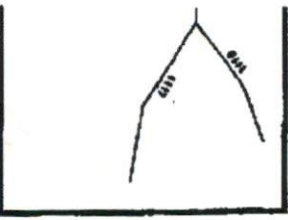
LINE	ELEVATION	LENGTH	FLAG COLOR
1	99.08	30'	W
2	98.50	50'	B
3	97.84	65'	Y
4	97.08	75'	W
5	96.42	80'	B
		<u>300'</u>	
6	95.84	40'	Y
7	95.25	40'	W
8	94.92	40'	B
9	94.50	40'	Y
10	93.92	45'	W
11	93.34	50'	B
		<u>285'</u>	

BY M EAKER DATE 06/2006

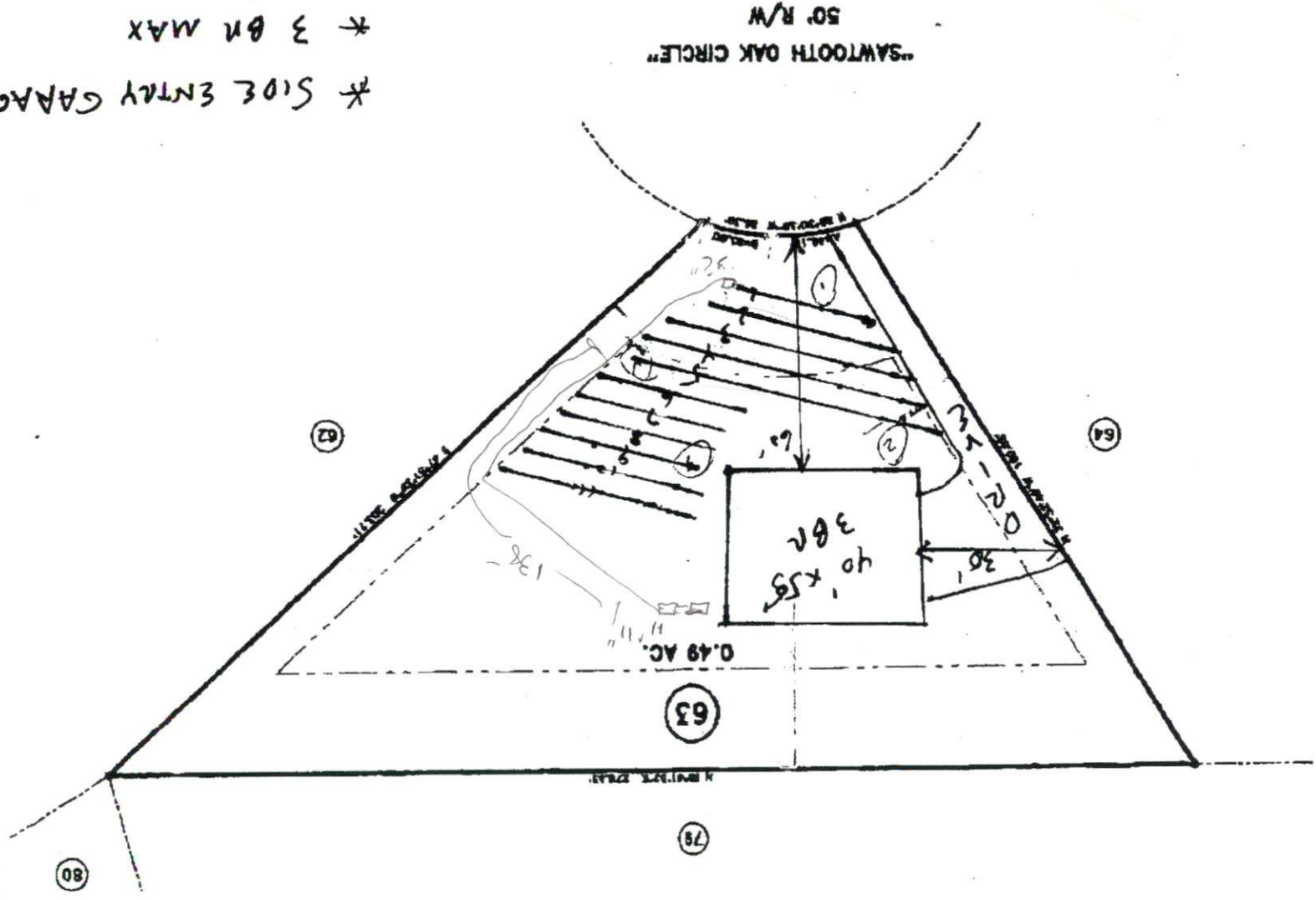
FLAG COLOR: Y = YELLOW R = RED W = WHITE B = BLUE O = ORANGE P = PINK

NEW BUILDING SET BACKS  
 SIDE YARD ——— 5'  
 FRONT YARD ——— 10'  
 REAR YARD ——— 10'  
 SIDE LOT SET BACK — 5'  
 REAR LOT SET BACK — 5'

TOWNSHIP ANDERSON CREEK COUNTY MAHMETT  
 FOREST OAKS S/D PHASES ONE & TWO  
 PROPOSED PLOT PLAN - LOT - 65  
 BENEYTT SURVEYS, INC.  
 1662 CLARK RD., FILLINGTON, N.C. 27546  
 (810) 883-5252  
 JOB NO. 06234



\* SIDE ENTRY GARAGE  
 \* 3 BR MAX  
 \* 60' FRONT SETBACK



REFERENCE: MAP NO. 2005-401

MAP NO. 2005-401