

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Applicant:

Address:
 Proposed Facility: *SFD*

Date Evaluated: *2-16-91*

Design Flow (.1949): *600*

Property Size:

Location of Site:

Property Recorded:

Water Supply:

Public Individual Well Spring Other

Evaluation Method:

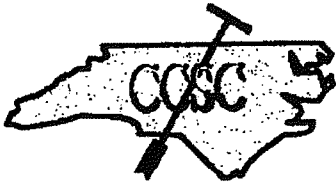
Auger Boring Pit Cut

Type of Wastewater:

Sewage Industrial Process Mixed

P R O F I L E #	.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 (IN.)	.1936 Sapro Class	.1944 Restr. Horiz.	
1	L-3%	0-10	SL	FL CL NSWP					
		10-30	SC-CLAY	CL 50% S.P.	32" 10L 4.2				.35
2	L-3%	0-12	SL	FL CL NSWP					
		12-40	SC-CLAY	CL 50% S.P.	34" 10L 4.2				.35
3	L-5%	0-8	SL	FL CL NSWP					
		8-32	SC-CLAY	CL 50% S.P.	30" 10L 4.2				.3
4	L-5%	0-12	SL	FL CL NSWP					
		12-36	SC-CLAY	CL 50% S.P.	32" 10L 4.2				.35
5	L-5%	0-8	SL	FL CL NSWP					
		8-30	SC-CLAY	CL 50% S.P.	28" 10L 4.2				.3

Description	Initial System <input checked="" type="checkbox"/>	Repair System <input checked="" type="checkbox"/>	Other Factors (.1946): Site Classification (.1948): <i>PS</i> Evaluated By: <i>92</i> Others Present:
Available Space (.1945)			
System Type(s)	<i>75% W</i>	<i>75% W</i>	
Site LTAR	<i>.3</i>	<i>.3</i>	



Central Carolina Soil Consulting, PLLC

329 South White Street
Wake Forest, NC 27587
919-569-6704

November 8, 2010
Project # 934

NC Custom Homes, LLC.
David Dozier
1508 Mycenae Place
Fuquay-Varina, NC 27526

RE: Soil/site evaluation and septic system layout on lot 5 in Regal Crest Subdivision, Harnett County.

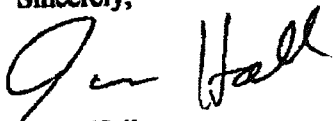
Dear Mr. Dozier:

Central Carolina Soil Consulting completed a soils evaluation and septic system layout per your request on lot 5 in Regal Crest subdivision to determine soil suitability for a 5-bedroom septic system and repair area. The soil site evaluation was performed using hand auger borings, under moist soil conditions, based on the criteria found in the State Subsurface Rules, 15ANCAC 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems". The soils on lot 5 in the back yard between the proposed house location and roughly 30-40' from the woods line are provisionally suitable for modified conventional type septic system and repair area for the proposed 5-bedroom home utilizing Accepted Status Product with a 25% area reduction. Please note that CCSC did layout enough proposed septic line to utilize a conventional stone drainfield if desired. The proposed primary system is a gravity system (Lines 2-4) requiring a 20" trench bottom on contour. The soils in this area had a sandy loam surface over a sandy clay loam subsoil suitable to at least 33-40"+ over the proposed drainfield area with a site LTAR of 0.35 gal/day/ft². The repair area shall be a gravity septic system as well (lines 5-7) requiring a 20" trench bottom on contour. The soils were similar in the repair area to the soils in the proposed primary septic field location with a site LTAR of 0.35 gal/day/ft². The specific septic system and loading rate for this lot will be permitted by the Harnett County Health Department. The area for the proposed septic fields shall not be impacted by home sites, pools, garages and shall not be mechanically altered from the natural lay of the land during construction of the house and should be fenced off to prevent compaction of the soil. The proposed pool location seems to meet the required 15' minimum setback but the house & pool locations should be clearly staked prior to a site evaluation by the Harnett County Health Department.

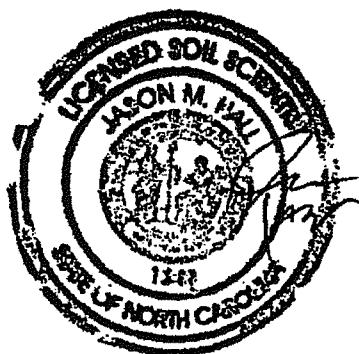
This lot will require a detailed soils evaluation by the Harnett County Health Department prior to issuance of any permits. Due to the subjective nature of the permitting process and the variability of naturally occurring soils, CCSC cannot guarantee that areas delineated as suitable for on-site wastewater disposal systems will be permitted by the governing agency.

Please give me a call if you have any questions.

Sincerely,



Jason Hall
NC Licensed Soil Scientist 1248



NC Custom Homes
Regal Crest Subdivision, Lot 5
 5-Bedroom House 600 gal/day)

<u>LINE #</u>	<u>COLOR</u>	<u>BS</u>	<u>HI</u>	<u>FS</u>	<u>ELEVATION</u>	<u>LINE LENGTH</u>	<u>Design Length</u>
TBM		0.0		100.0		<u>in field</u>	<u>installation</u>
INST. 1			100.0				
1	Orange			5.1	94.9	227	Not Used
2	Blue			5.7	94.3	235	150
3	Yellow			6.3	93.7	251	150
4	Red			6.8	93.2	250	150
5	Pink			7.4	92.6	251	150
6	Orange			8.0	92.0	250	150
7	Blue			8.4	91.6	250	150
Total						1714	900

System Type	<u>System</u>	<u>Repair</u>
	Lines 2-4	Lines 5-7
	Accepted Status Product	Accepted Status Product
	EZ-Flow	EZ-Flow
Suggested Soil LTAR (gal/day/ft ²)	0.35	0.35
System Installation LTAR	0.33	0.33
Total Line Length	450	450
Square Footage	1350	1350
Proposed Trench Bottom	20"	20"
Distribution Method	Gravity to D-Box	Gravity to D-Box
Notes:		