

**SOIL/SITE EVALUATION
 for ON-SITE WASTEWATER SYSTEM**

Owner:

Applicant:

Address:

Date Evaluated: 9/19/08

Proposed Facility: 3 Bedroom w/mt Design Flow (.1949):

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.)	.1956 Sapro- Class	.1944 Restr Horiz	
1	LS 0.2%	0-7"	G SL	VFL NS/MP					P5 35
		7-33"	SBK SCL	FR S/SP					
2		0-18"	G SL	VFL NS/MP					P5 35
		18-36"	SBK SCL	FR S/SP					
			Bt @ 33"						
			Bt @ 36"						

Description	Initial System	Repair System
Available Space (.1945)	✓	✓
System Type(s)	PUMP 2.5% PCD	PUMP 0.5% PCD
Site LTAR	4	4

Other Factors (.1946): _____
 Site Classification (.1948): 45
 Evaluated By: [Signature]
 Others Present:

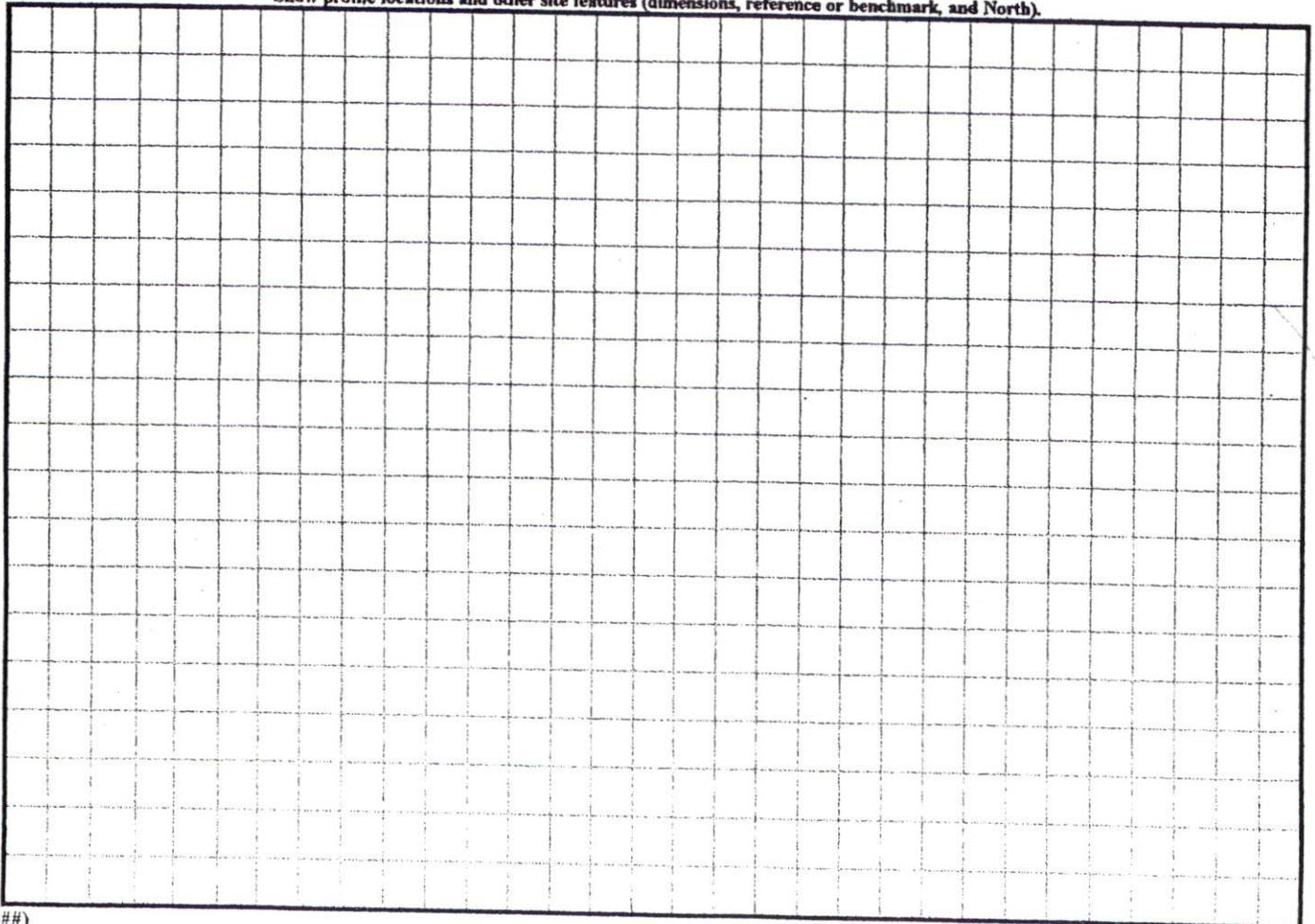
COMMENTS: _____

<u>LANDSCAPE POSITIONS</u>	<u>GROUP</u>	<u>TEXTURES</u>	<u>.1955 LTAR</u>	<u>CONSISTENCE MOIST</u>	<u>WET</u>
R-RIDGE	I	S-SAND	1.2 - 0.8	VFR-VERY FRIABLE FR-FRIABLE FI-FIRM VFI-VERY FIRM EFI-EXTREMELY FIRM	NS-NON-STICKY SS-SLIGHTLY STICKY S-STICKY VS-VERY STICKY NP-NON-PLASTIC SP-SLIGHTLY STICKY P-PLASTIC VP-VERY PLASTIC
S-SHOULDER SLOPE		LS-LOAMY SAND			
L-LINEAR SLOPE	II	SL-SANDY LOAM	0.8 - 0.6		
FS-FOOT SLOPE		L-LOAM			
N-NOSE SLOPE	III	SI-SILT-	0.6 - 0.3		
H-HEAD SLOPE		SIL-SILT LOAM			
CC-CONCLAVE SLOPE		CL-CLAY LOAM			
CV-CONVEX SLOPE		SCL-SANDY CLAY LOAM			
T-TERRACE		SICL-SILTY CLAY LOAM			
FP-FLOOD PLAN	IV	SIC-SILTY CLAY	0.4 - 0.1		
		C-CLAY			
		SC-SANDY CLAY			

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

MINERALOGY
 SLIGHTLY EXPANSIVE
 EXPANSIVE

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



Ballard Woods Subdivision - Phase 4, Lot 181

Site Plan & Evaluation
for On-Site Wastewater Treatment & Disposal
March 13, 2008

Recommended System:

3-bedroom (6 residents maximum)

Initial and Repair: Off Site Innovative Gravelless Trench.

Recommended LTAR: 0.45 gallons/day/square feet.

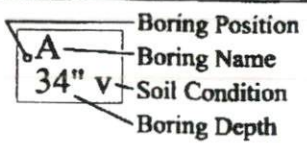
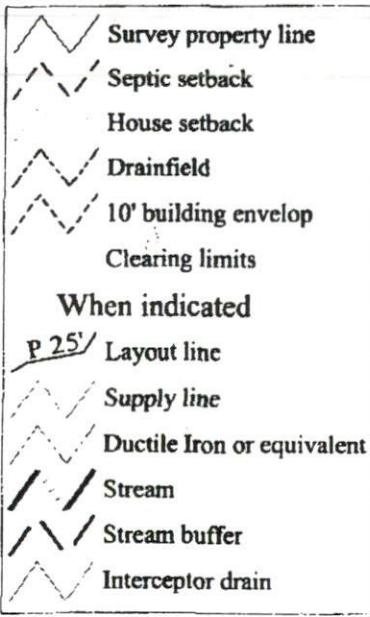
Most restrictive texture in treatment zone: Soil Group III: Sandy Clay Loam.

Recommended trench bottom placement: 18 inches downhill side.

Line length needed = 400 feet: Minimum total area needed = 3600 square feet.

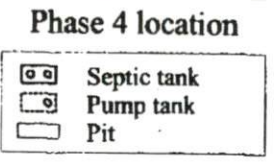
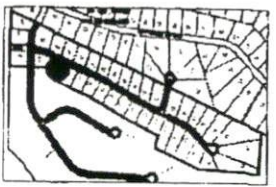
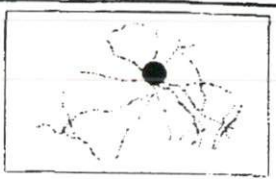
Line length needed = 400 feet.

Minimum total area needed = 3,600 square feet, area designated 7,520± square feet.



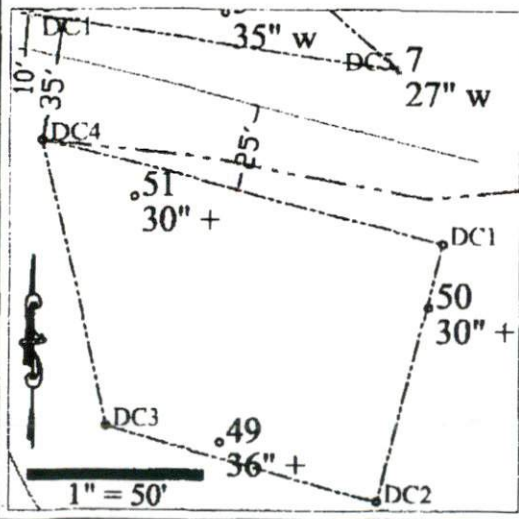
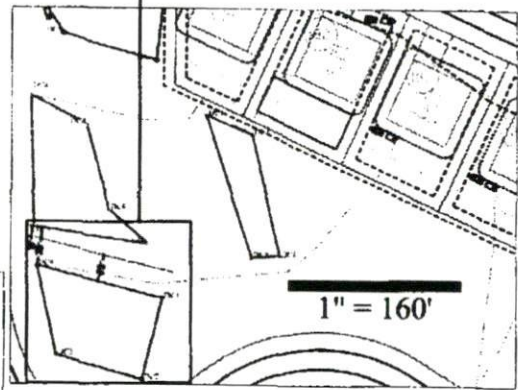
Soil Conditions
+ = Likely favorable below
w = Soil wetness
v = Plinthite

Layout Colors
P = Pink
R = Red
O = Orange
Y = Yellow
B = Blue
W = White



Area flagged in yellow "caution" tape.

Area enlarged at left



Locations and specifications for tanks, supply lines, and stream crossings are suggestions. Due to topographic irregularities and other considerations, actual locations or material specifications may be changed at time of permitting or installation, at the discretion of the permitting authority.

Pit/boring locations marked with numbers and/or letters. DC1, etc. = drainfield corners, where corner is not marked with pit/boring. Lot will require health department approval. Some adjustments may be necessary at that time due to soil variability and topographic irregularities. House and drainfield areas not survey accurate. Recommendations for house location and/or size, and septic system type, size, and/or location may be invalidated if site alterations (including road cut/fill, drainage, and other grading) occur.



5306 Hwy. 54 West
Chapel Hill, NC 27516
919-932-5008
chandlersoil@earthlink.net

Owner/ Buyer: Ballard Woods Date Evaluated 2007/2008 Location: Lot 181 Ballard Woods Phase IV

Proposed Facility: SFD Proposed Design Flow (.1949): up to 360 gal/day/sq ft

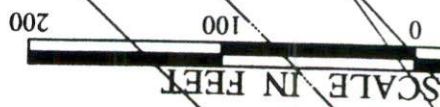
Co: Harnett Well Supply: Community Evaluation Method: Pit, Auger

PROFILE	FLAG COLOR	Landscape Slope	HORIZON	Depth (in)	TEXTURE	SOIL STRUCTURE			MINEROLOGY CONSISTENCE MOIST/WET	SOIL COLOR MATRIX		SOIL COLOR MOTTLES	NOTES/LTAR
						GRADE	CLASS	TYPE					
181-49	R	0-4%	A	0-13	LS	I	F	GR		2.5Y	6/3		
			E	13-17	LS	I	F-M	SBK		10YR	4/3		
			Bt	17-36+	SCL	1-2	F-M	SBK		7.5YR	5/8		0.45 36+
181-50	R		A	0-7	SL	I	F	GR					
			Bt	7-30+	SCL	1-2	F-M	SBK	VFR		7.5YR	5/8	
181-51	R		A	0-9	SL	I	F	GR					
			Bt	9-30+	SCL	1-2	F-M	SBK	VFR		7.5YR	5/8	

Texture			Structure			Minerology		
			GRADE		TYPE		MOIST	
Coarse Sand	COS	Very Fine Sandy Loam	VFSL	Structureless	0	Granular	GR	Loose
Sand	S	Loam	L	Weak	1	Angular Blocky	ABK	Very Friable
Fine Sand	FS	Silt Loam	SIL	Moderate	2	Subangular Blocky	SBK	Friable
Very Fine Sand	VFS	Silt	SI	Strong	3	Platy	PL	Firm
Loamy Coarse Sand	L.COS	Sandy Clay Loam	SCL	CLASS		Wedge	WEG	Very Firm
Loamy Sand	LS	Clay Loam	CL	Very fine	VF	Prismatic	PR	Extr. Firm
Loamy Fine Sand	LFS	Silty Clay Loam	SICL	Fine	F	Columnar	COL	WET
Loamy Very Fine Sand	LVFS	Sandy Clay	SC	Medium	M			Non-Sticky
Coarse Sandy Loam	COSL	Silty Clay	SIC	Coarse	CO	Single Grain	SGR	Slightly Sticky
Sandy Loam	SL	Clay	C	Thick (PL)	TK	Massive	MA	Moderately Sticky
Fine Sandy Loam	FSL			Very Coarse	VC			Very Sticky
				Very Thick (PL)	VK	Cloddy	CDY	Non-Plastic
				Extremely Coarse	EC			Slightly Plastic
								Moderately Plastic
								Very Plastic



3/12/2008



JOSEPH ALEXANDER DR. S

