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

Sheet ___ of ___
PROPERTY ID #: ___
COUNTY: ___

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

122696
4730-31-3795

OWNER: MARY ENGELS APPLICATION DATE: 7-15-04
ADDRESS: 369 HOWELL HUTTON TROUTMAN NC 28166 DATE EVALUATED: 8-10-04
PROPOSED FACILITY: 3 BR HOUSE PROPOSED DESIGN FLOW (.1949): 360 PROPERTY SIZE: 37.34 AC
LOCATION OF SITE: STATESVILLE RD (R) HOWELL HUTTON RD (R) PAST HOWELL HUTTON PROPERTY RECORDED: ___
WATER SUPPLY: ☐ Private ☐ Public ☒ Well ☐ Spring ☐ Other ___
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	12.5% L	0-12"	SCL GR WK	FRIABLE NS NP MOD		74"			PS .25
		12-30	C MOD SBK/ABK	FI S PLSTC					
			SAP INCLUSIONS 24-30 < 50%						
		30-74"	WKLY TO STRONGLY CEMENTED SAP INCLUSIONS < 50%						
2	10.5%	0-12	SCL WK GR	FRIABLE NS NP MOD		48"			PS .25
		12-30	C MOD SBK/ABK	FI S PLSTC					
			SAP INCLUSIONS 24-30 < 50%						
		30-48"	WKLY TO STRONGLY CEMENTED SAP INCLUSIONS < 50%						
		48+	SAPROLITE						
3	12% L	0-6	SCL TO LOAMY FINE SAND			6"			US FLOATING ROCK
4	8% L	0-6	SCL WK GR	FRIABLE NS NP MOD		48" SOIL DEPTH			PS .25
		6-44	C MOD SBK/ABK	FI S PLSTC SAP INCLUSIONS < 50%					
		44-48"	CL SAP INCLUSIONS < 50% WKLY CEMENTED						

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	YES	YES
System Type(s)	CONV CONV	CONV CONV
Site LTAR	.25	.25

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): ___
EVALUATED BY: C. WOLK
OTHER(S) PRESENT: M. BRANCH

COMMENTS: ___

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*
CC (Concave Slope) CV (Convex Slope) D (Drainage Way) DS (Debris Slump) FP (Flood Plain) FS (Foot Slope) H (Head Slope) L (Linear Slope) N (Nose Slope) R (Ridge) S (Shoulder Slope) T (Terrace)	I	S (Sand) LS (Loamy Sand)	1.2 - 0.8	0.6 - 0.4
	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3
	III	SCL (Sandy Clay Loam) SiL (Silt Loam) CL (Clay Loam) SiCL (Silty Clay Loam) Si (Silt)	0.6 - 0.3	0.3 - 0.15
	IV	SC (Sandy Clay) SiC (Silty Clay) C (Clay) O (Organic)	0.4 - 0.1 None	0.2 - 0.05

MINERALOGY/ CONSISTENCE	STRUCTURE
NEXP (Non-expansive)	G (Single Grain)
SEXP (Slightly Expansive)	M (Massive)
EXP (Expansive)	CR (Crumb)
	GR (Granular)
	SBK (Subangular Blocky)
	ABK (Angular Blocky)
	PL (Platy)
	PR (Prismatic)

MOIST	WET
VFR (Very Friable)	NS (Non-sticky)
FR (Friable)	SS (Slightly Sticky)
FI (Firm)	S (Sticky)
VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
EFI (Extremely Firm)	NP (Non-plastic)
	SP (Slightly Plastic)
	P (Plastic)
	VP (Very Plastic)

***Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.**

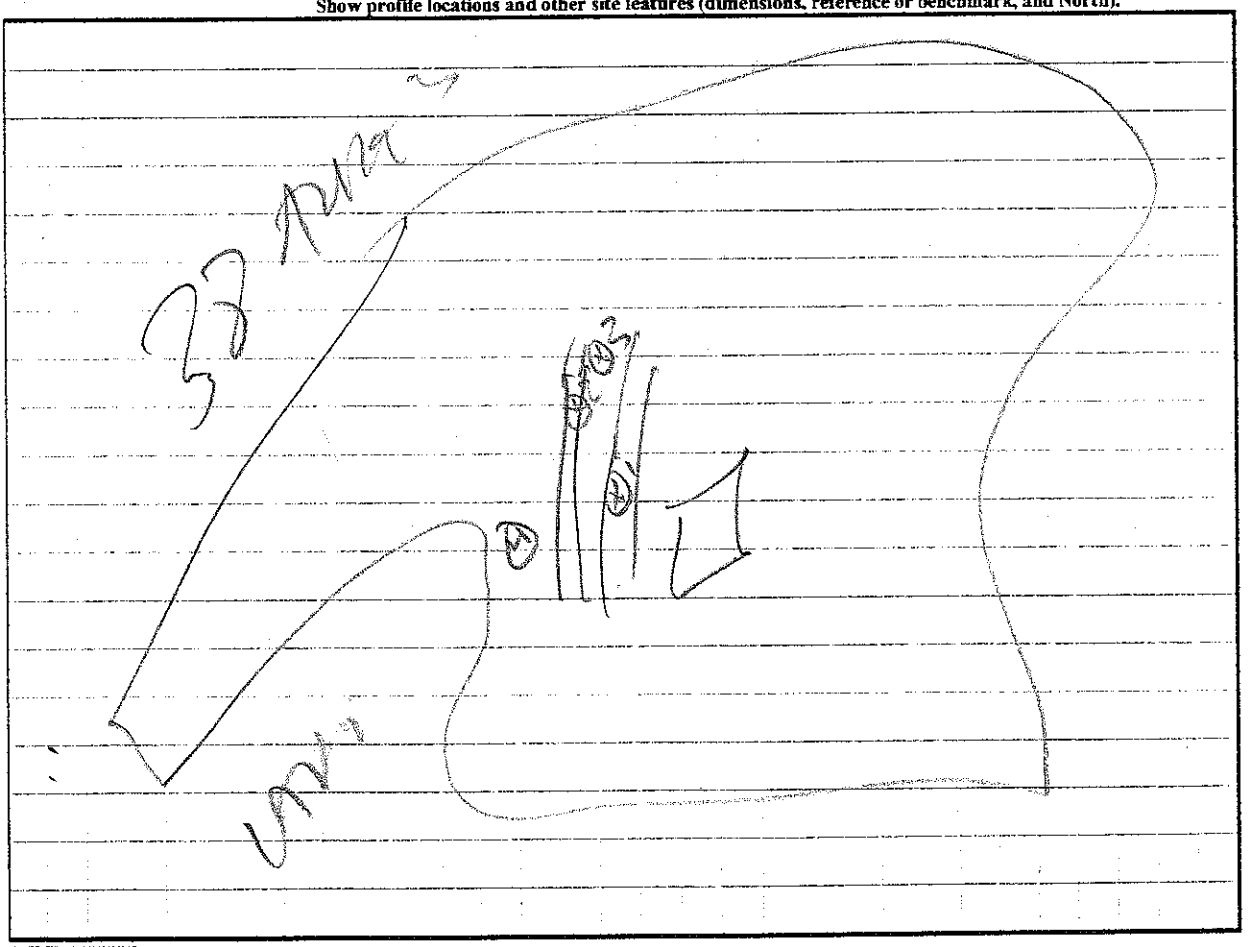
NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

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



DENR (######)

Review (#####)