DENR/DEH

ON-SITE WASTEWATER SECTION

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

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Hans Heyman
ADDRESS: PO Box 894, Cashiers NC
PROPOSED FACILITY: SFR
PROPOSED DESIGN FLOW (.1949): 480 gpd
LOCATION OF SITE: Lots 10 & 11 combined Eastward Acres
WATER SUPPLY: • Private • Public • Well • Spring • Other _____
EVALUATION METHOD: • Auger Boring • Pit • Cut

APPLICATION DATE 3-17-10
DATE EVALUATED: 4-14-10
PROPERTY SIZE: approx 1.95 ac to lk
PROPERTY RECORDED: YES
TYPE OF WASTEWATER: • Sewage • Industrial Process • Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	~2%	0-5"	gr brsl	fr ss sp	NA	~~48"~~ 61"	NA	NONE	.25
		5-19"	wk sbk brwn cl	fr ss sp sap					
		19-35"	mf sbk yb/w c	fr ss sp sap	Lw red mottles				
		35-48"	mf sbk red cl	fr ss sp	common yb/w mottles, lw mf sap				
		~61"	wk sbk red cl	fr sp	common sap				
2	~2%	0-14	wk sbk yb/w cl	fr ss sp					
		14-30	mf sbk yb/w c	fr ss sp sap	NA	~~48"~~ 61"	NA	NONE	.25
		30-48	MF SBK Red cl	fr ss sp sap					
		~61"	mf sbk red cl	fr ss sp sap					
				Looks better 30"+					
3	~3%	0-4	gr brsl sk	fr ns sp					
		4-27	sbk yb/w c	fr ss-ss sp sap					
		27-38	mf sbk yr cl	fr ss sp sap	NA	~~48"~~ 61"	NA	NONE	.25
		38-46	mf sbk red cl	fr ss sp sap					
		~61"	mf sbk red cl	fr ss sp sap					
4	1-3%	0-10	wk sbk brwn cl	fr ss sp					
		10-36	sbk yb/w c	fr ss sp sap	NA	61"	NA	NONE	.20 @ 36"
		36-42	wk sbk red cl	fr ss sp sap					.25 @ 42"
		42-48	mf sbk red cl	fr ss sp sap					.3 @ 48"+
		~61"	wk sbk red cl	fr ss sp lw in lpo					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Gravel 25% Red	Gravel 25% Red
Site LTAR	.25	.25 - .25 per year (3 foot trench)

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): IS
EVALUATED BY: DH
OTHER(S) PRESENT: Site inspection 4-15-10 w/ Steve Abele to confirm LTAR

COMMENTS: Soil color improves 36"+, Restrictive @ 30"+ to mg. (All 1-4)

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
D (Drainage Way)					EXP (Expansive)	CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			**MOIST**	**WET**
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	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.

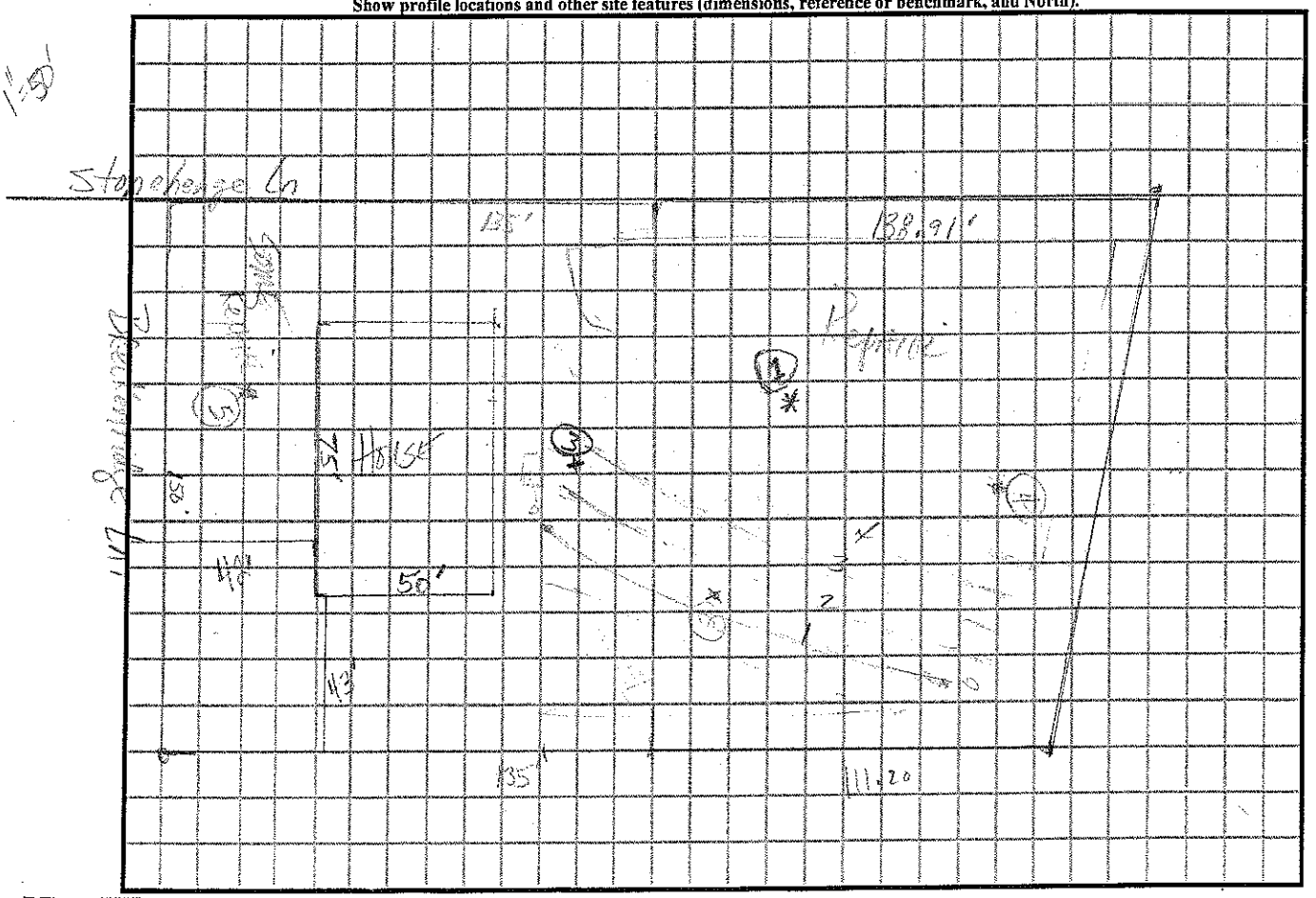
NOTES

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 (#####)