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

Sheet ___ of ___
PROPERTY ID #: 114635
COUNTY: 473005935

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: TOUCHSTONE DEV
ADDRESS: 145 WITHERWOOD COVE MOORESVILLE 28117
PROPOSED FACILITY: 4BR HOUSE PROPOSED DESIGN FLOW (.1949): 480
LOCATION OF SITE: 13 SQUALLS CROSS LOT 9
APPLICATION DATE 2-17-06
DATE EVALUATED: 2-31-06
PROPERTY SIZE: 1.67
PROPERTY RECORDED: yes

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) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	6%/D L	0-6"	SCL WK gr	fr nonplast		78"			PS .3
		6-72"	Cmd sbk	fr ss sp					
		72-80"	sc wk sbk	fr ss sp					
2	6%/D	0-6	SCL wk gr	fr nonplast		>48"			PS .3
		6-36	C md sbk	fr ss sp					
		36-48"	C sp inclusions 40%						
			wk sbk fr ss sp						
3	6%/D HS	0-6"	SCL wk gr	fr nonplast					PS .25
		6-60"	Cmd sbk	fr ss sp					
				many coarse stones	36-60"				
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	YES	YES
System Type(s)	CONV 25	CONV 25%
Site LTAR	.3	.25

OTHER FACTORS (.1946): ____
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: L. COOK
OTHER(S) PRESENT: PIT DIGGERS

COMMENTS: Previous Soil work performed but no locations marked. Our Fault, Reperformed soil work to verify Lorne Cook RS 4-5-06
HEAD SLOPE SOIL

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	Si (Silt) SiCL (Silty Clay Loam) CL (Clay Loam) SCL (Sandy Clay Loam) SiL (Silt Loam)	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 None

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

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

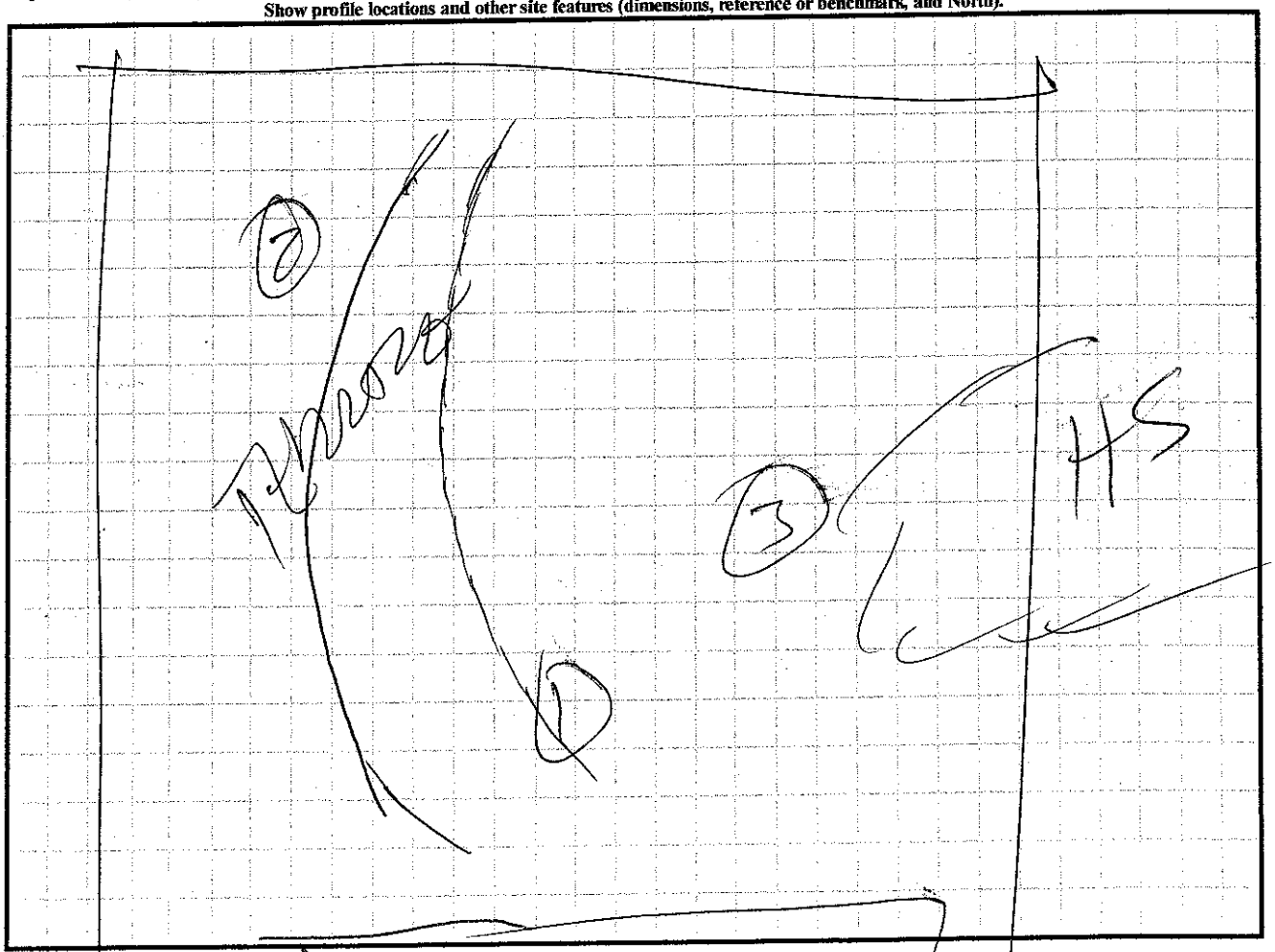
NOTES

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 (#####)

ON-SITE WASTEWATER SECTION

COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Russ Graham APPLICATION DATE _____

ADDRESS: _____ DATE EVALUATED: 7-15-03

PROPOSED FACILITY: SFR PROPOSED DESIGN FLOW (.1949): 3 bdrm PROPERTY SIZE: _____

LOCATION OF SITE: Lot 9 Smoke Creek PROPERTY RECORDED: _____

WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other _____

EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut

TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LAND-SCAPE POSITION/ SLOPE %	HORI-ZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	6-10%	0-8	wkfsbk brn scl	frssp					.3
		8-37	mfsbk R&C	frssp/sesp					
		37-65	(B/C) wkfsbk/mas yred	frssp common mn/sesp					
2		0-6	wkfsbk brn scl	frssp					.3
		6-26	mfsbk R&C	frsp/sesp					
		26-62	(B-C) wkfsbk yred	frssp common mn/sesp					
3	DW/HS	0-12	gr-wkfsbk brn scl	frssp					.2-.25
		12-25	wkfsbk brn/lt brn L/C	fr-frsp sesp	common-many manganese coatings				Keeps shallow
		25-55	wkfsbk brn R/C	fi-frsp sesp	" " " "				24" to
					water bleeding out of sidewall 36"±				
					rock 2 - many manganese coatings				
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Conv 25% Red	LPP 25-50% Red
Site LTAR	.3	.3

OTHER FACTORS (.1946): _____

SITE CLASSIFICATION (.1948): PS

EVALUATED BY: DMH

OTHER(S) PRESENT: _____

COMMENTS: _____

LEGEND

use the following standard abbreviations

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EXP (Expansive)

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FR (Friable)
FI (Firm)
VFI (Very Firm v. Very Sticky)
EFI (Extremely Firm)

WET

NS (Non-sticky)
SS (Slightly Sticky)
S (Sticky)
VS (Very Sticky)
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.**

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Review (#####)