DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 2
PROPERTY ID #: 4775719369
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Travis Vanhoy
ADDRESS: 866 Elmwood Rd.
PROPOSED FACILITY: 3BR SFD
PROPOSED DESIGN FLOW (.1949): 360 gpd
LOCATION OF SITE: 137 Mills Garden
WATER SUPPLY: • Private • (Public) • Well • Spring • Other N/A
EVALUATION METHOD: • Auger Boring • (Pit) • Cut

APPLICATION DATE: 12-27-13
DATE EVALUATED: 2-12-14
PROPERTY SIZE: 40.25 acres
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	7.5% NS	0-13	SC PI	Fr Mod	+60"	13"-60"	+60	+60"	PS
		13-24	C ABK	Fi SE					0.225
		24-60	C WABK	Fi SE		0-13" US			
2	10% NS	0-20	C PI	Fi Mod	+60"	20-60"	+60	+60	PS
		20-60	C WABK	Fi Mod SE					0.225
						0-20" US			
3	10% NS	0-10	SCL SBK	Fr Mod SE	+62"	20-62"	+62"	+62"	PS
		10-20	C PI/ABK	Fi					0.225
		20-62	C WSBK/ABK	Fi Mod SG		10-20" 13 US			
		Common SAP Encl.							
		40" = 62"							
4	13% L	0-14	SL SBK	Fr Mod SG	42" 2.5Y 6/1	42"	+42"	42"	PS
		14-42	C Redox ABK	Fi SISP Mod SG					0.225
		42"	C ABK	Fi mod					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	III	III
Site LTAR	0.225	0.225

OTHER FACTORS (.1946): N/A
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Just Hendrix Brady Freeman
OTHER(S) PRESENT: N/A

COMMENTS: T3 must be @ 36"

DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 2 of 2
PROPERTY ID #: 4775719369
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Travis Vanhoy
ADDRESS: 826 Elmwood Rd.
PROPOSED FACILITY: 3 BR SFD
LOCATION OF SITE: 132 Mills Garden
WATER SUPPLY: • Private • Public • Well • Spring • Other N/A
EVALUATION METHOD: • Auger Boring • Pit • Cut

APPLICATION DATE 12-27-13
DATE EVALUATED: 2-12-14
PROPOSED DESIGN FLOW (.1949): 360 gpd
PROPERTY SIZE: 40.25 acres
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
5	7.5% slight NS	0-6	SiL Gr	Fr SE	+34	6"	+34"	6"	US
		6-34	C Pl	Fi					
6	8% slight NS	0-15	SL WSBK	Fr Mod SE	+50"	15"	15"	15"	US
		15-58	C Pl	Fi Mod					
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	P S	P S
System Type(s)	II	II
Site LTAR	0.25	0.25

OTHER FACTORS (.1946): N/A
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Justin Henderson & Brady Freeman
OTHER(S) PRESENT: N/A

COMMENTS: N/A

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)

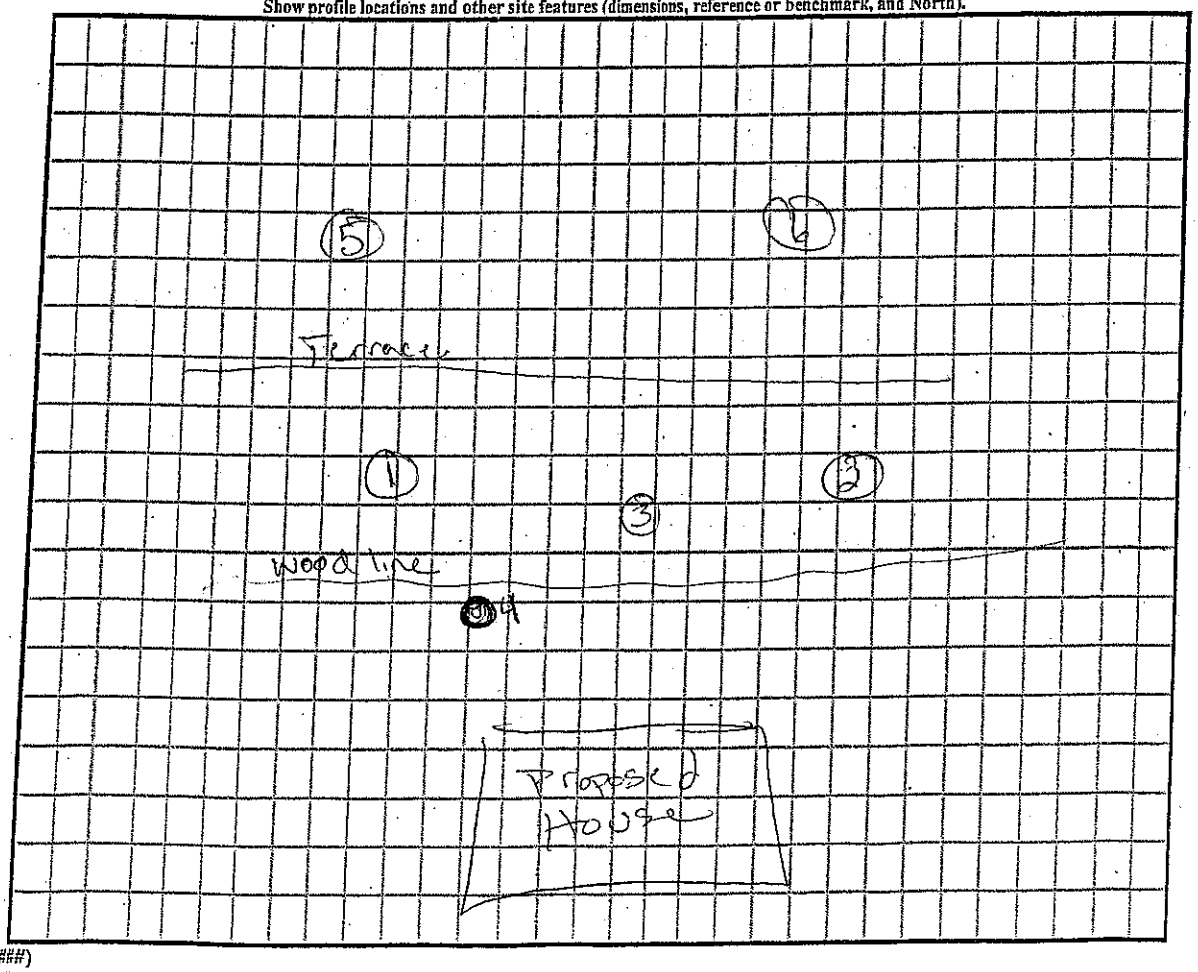
SOIL WETNESS Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation

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).



IR (#######)
ew (#####)