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

Sheet 1 of 1
PROPERTY ID #:
COUNTY: IREDELL

4783-05-6093

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: KAO THAO APPLICATION DATE 7-12-04
ADDRESS: 118 JAYBIRD LANE, STATESVILLE, NC 28625 DATE EVALUATED: 7-26-04
PROPOSED FACILITY: 3 BR House PROPOSED DESIGN FLOW (.1949): 360 PROPERTY SIZE: 4.03 ACRES
LOCATION OF SITE: US 70 E, TL ELMWOOD, TR JAYBIRD, AT END 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) .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	L 3%	0-3	GR L	VFR NEAP	5Y8/3 5Y8/1		4		4
		3-22	MCABK C	VFI VS/VP EXP					
		22-41	MASSIVE SAP. C	FI EXP					
		41-60	GR SAPROLITE SL	FR NEXP					
2	L 3%	0-1	ORGANIC	NEAP	5Y8/2 5Y3/1		4		4
		1-20	MASSIVE C	VFI VS/VP EXP					
		20-39	MASSIVE SAPROLITE CL	FI S/P EXP					
		39-60	GR SAPROLITE CL	FR NEAP					
3	L 3%	0-3	GR L	VFR NEAP			PS (2) 35"+		PS 0.25
		3-18	MCABK C	VFI VS/VP EXP					
		18-35	MASSIVE SAPROLITE CL	FR S/P EXP					
		35-60	GR SL	VFR NEAP					
4	L 3%	0-3	GR L	VFR NEAP			PS (2) 30"+		PS 0.25
		3-16	MCABK C	VFI VS/VP EXP					
		16-30	MASSIVE SAPROLITE CL	FR S/P EXP					
		30-60	GR SAPROLITE SL	VFR NEXP					

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

OTHER FACTORS (.1946): DEEP INSTALLATION / SAPROLITE
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: S. HEDRICK
OTHER(S) PRESENT: KAO THAO, BRENT GAULTHER

COMMENTS:

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTU
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	SCL (Sandy Clay Loam)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiL (Silt Loam)			PR (Prismatic)	
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SiCL (Silty Clay Loam)			**MOIST**	**WET**
S (Shoulder Slope)		Si (Silt)				
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		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.**

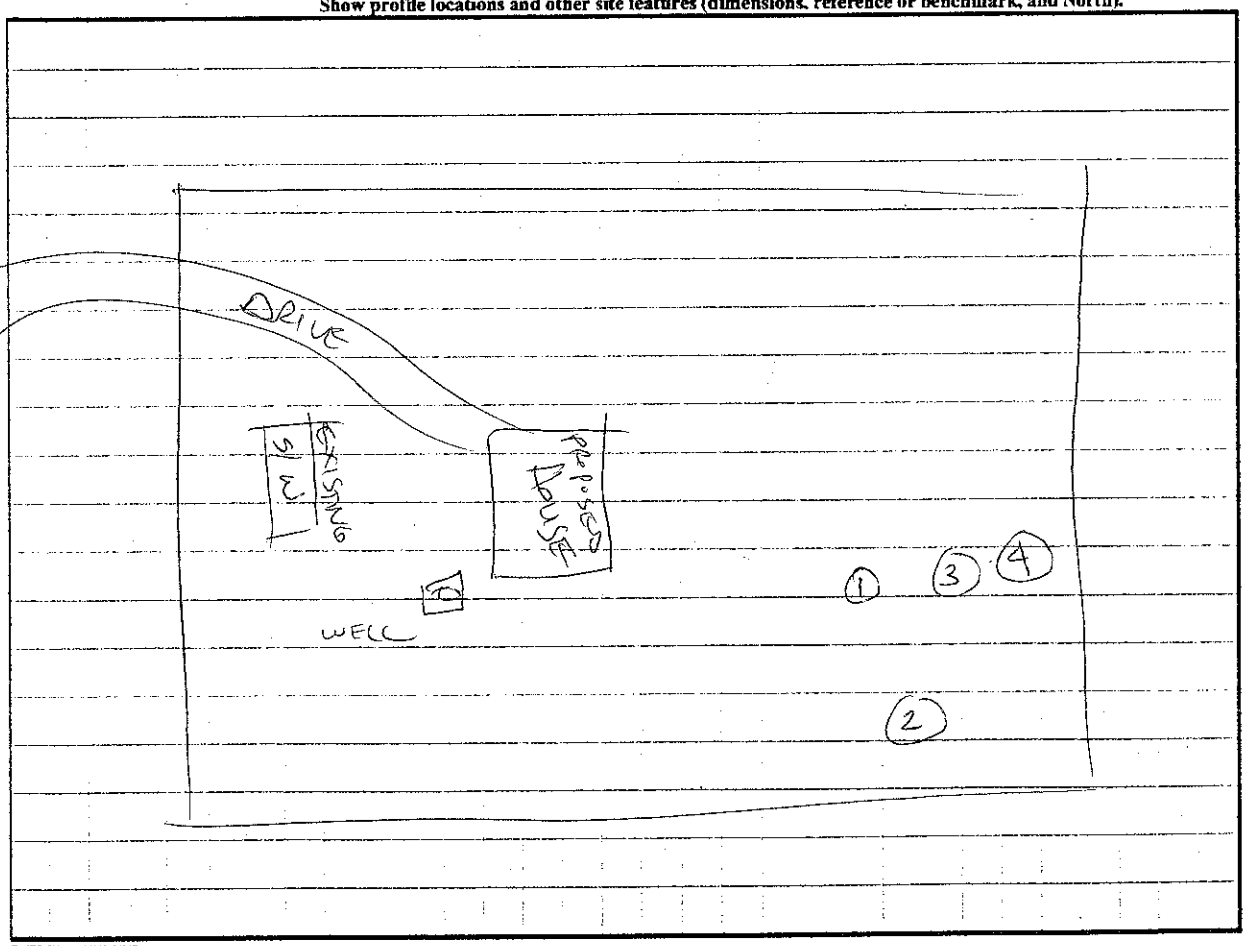
NOTES

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 (#####)