DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 1
PROPERTY ID #: 4863-88-1082
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Leah Ireland — APPLICATION DATE 8/11/11
ADDRESS: 371 Sam Mill Rd. Mooresville NC — DATE EVALUATED: 8/24/11
PROPOSED FACILITY: 4 Bdrm home — PROPOSED DESIGN FLOW (.1949): 480 gpd — PROPERTY SIZE: 9.03 ac.
LOCATION OF SITE: End Sam Mill Rd. TR Sam Mill Rd - on Rt. — 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	L/SW 4%	0-7	gr/SL	VFr/Sqp	7.5YR 4/8	7.5YR 4/8	NA	NA	PS 0.3
		7-14	SBK/SCL	Fr/Sqp					
		14-31	SBK/C	Fr-Fi/Sqp					
		31-48+	wSBK/C1+Sq	Fr/Sqp					
2	L 5%	0-8	gr/L	Fr/Sqp	7.5YR 4/8	7.5YR 4/8	NA	NA	PS 0.3
		8-13	wSBK/CL	Fr/Sqp					
		13-34	SBK/C	Fi/Sqp					
		34-48+	wSBK/C1+Sq	Fr/Sqp					
3	L 5%	0-5	gr/L	VFr/Sqp	7.5YR 4/8	7.5YR 4/8	NA	NA	PS 0.3
		5-12	wSBK/SCL	Fr/Sqp					
		12-30	SBK/C	Fr-Fi/Sqp					
		30-48	wSBK/C1+Sq	Fr/Sqp					
4	L 6%	0-7	gr/SL	VFr/Sqp	7.5YR 4/8	7.5YR 4/8	NA	NA	PS 0.3
		7-13	wSBK/CL	Fr/Sqp					
		13-34	SBK/C	Fr-Fi/Sqp					
		34-48+	wSBK/C1+Sq	Fr/Sqp					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	III	III
Site LTAR	0.3	0.25

OTHER FACTORS (.1946): PS
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: TCH
OTHER(S) PRESENT:

COMMENTS:

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.

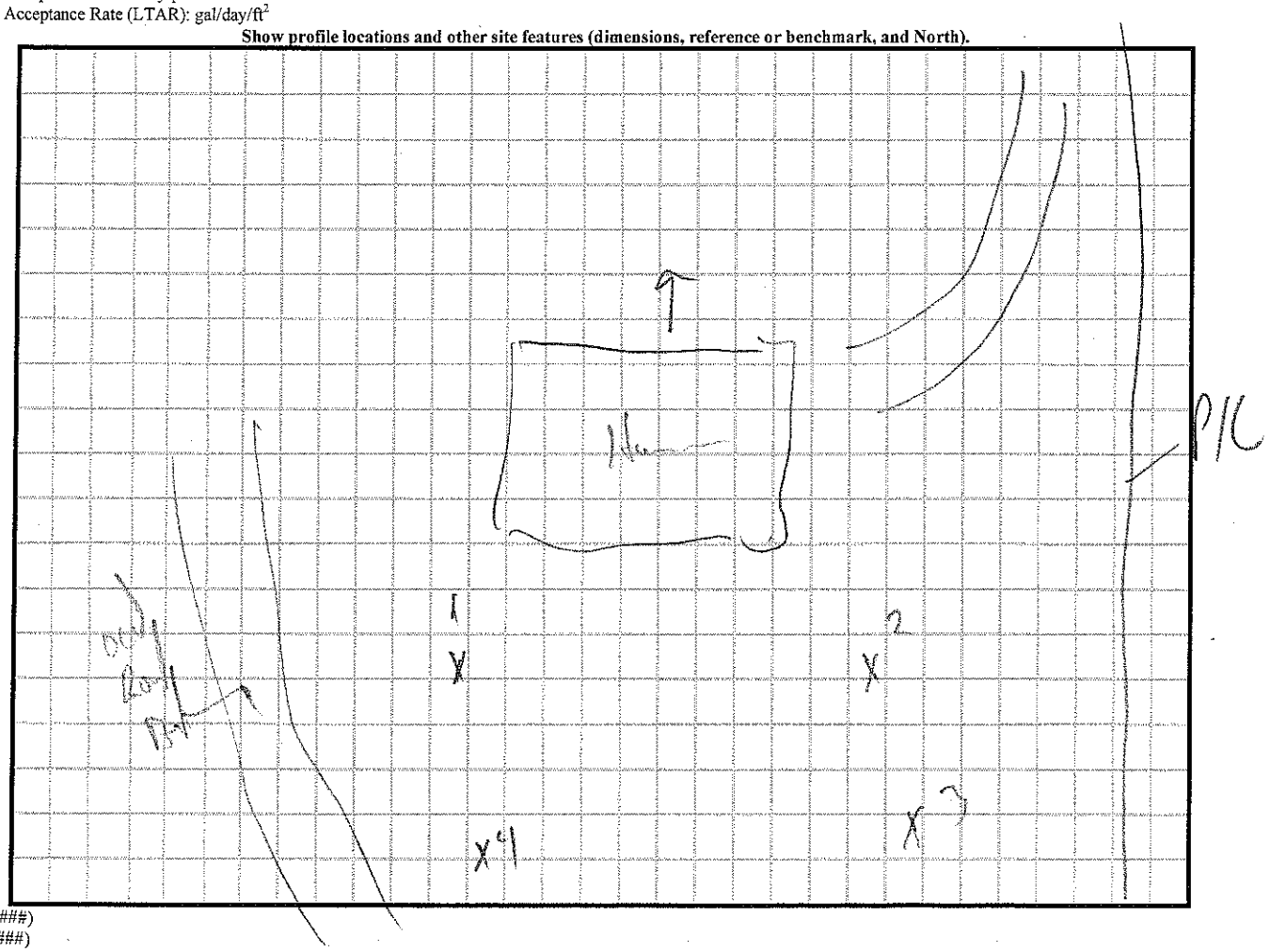
NOTES

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 (#####)