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

Sheet 1 of 1
PROPERTY ID #: 4775-05-9774
COUNTY: IREDELL

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: IRONSTONE DEVELOPMENT GROUP LLC APPLICATION DATE 2-2-04
ADDRESS: 144 WILFORD RD, MOORESVILLE, NC 28115 DATE EVALUATED: 3-2-04
PROPOSED FACILITY: 4BR W/BONUS PROPOSED DESIGN FLOW (.1949): 600 PROPERTY SIZE: 0.6910 ACRES
LOCATION OF SITE: SPRING FOREST # 88 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 5%	0-6	GR SL	VFR SSPL					PS 0.3
		6-40	SBK C	FR SSP					
		40-48	SBK SiC	FR SSP					
2	N 4%	0-40	SBK C	FR SSP					PS 0.3
		40-48	SBK SiC	FR SSP					
3	N 2%	0-38	SBK C	FR SSP					PS 0.3
		38-48	SBK CL	FR SSP					
4	L 3%	0-42	SBK C	FR SSP					PS 0.3
		42-48	SBK CL	FR SSP					

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

OTHER FACTORS (.1946): NONE
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: S. HEDRICK
OTHER(S) PRESENT: MICHAEL KERR

COMMENTS: _____

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4
CV (Convex Slope)		LS (Loamy Sand)		
D (Drainage Way)				
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3
FP (Flood Plain)		L (Loam)		
FS (Foot Slope)				
H (Head Slope)	III	SCL (Sandy Clay Loam)	0.6 - 0.3	0.3 - 0.15
L (Linear Slope)		SiL (Silt Loam)		
N (Nose Slope)		CL (Clay Loam)		
R (Ridge)		SiCL (Silty Clay Loam)		
S (Shoulder Slope)		Si (Silt)		
T (Terrace)				
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05
		SiC (Silty Clay)		
		C (Clay)		
		O (Organic)	None	

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

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

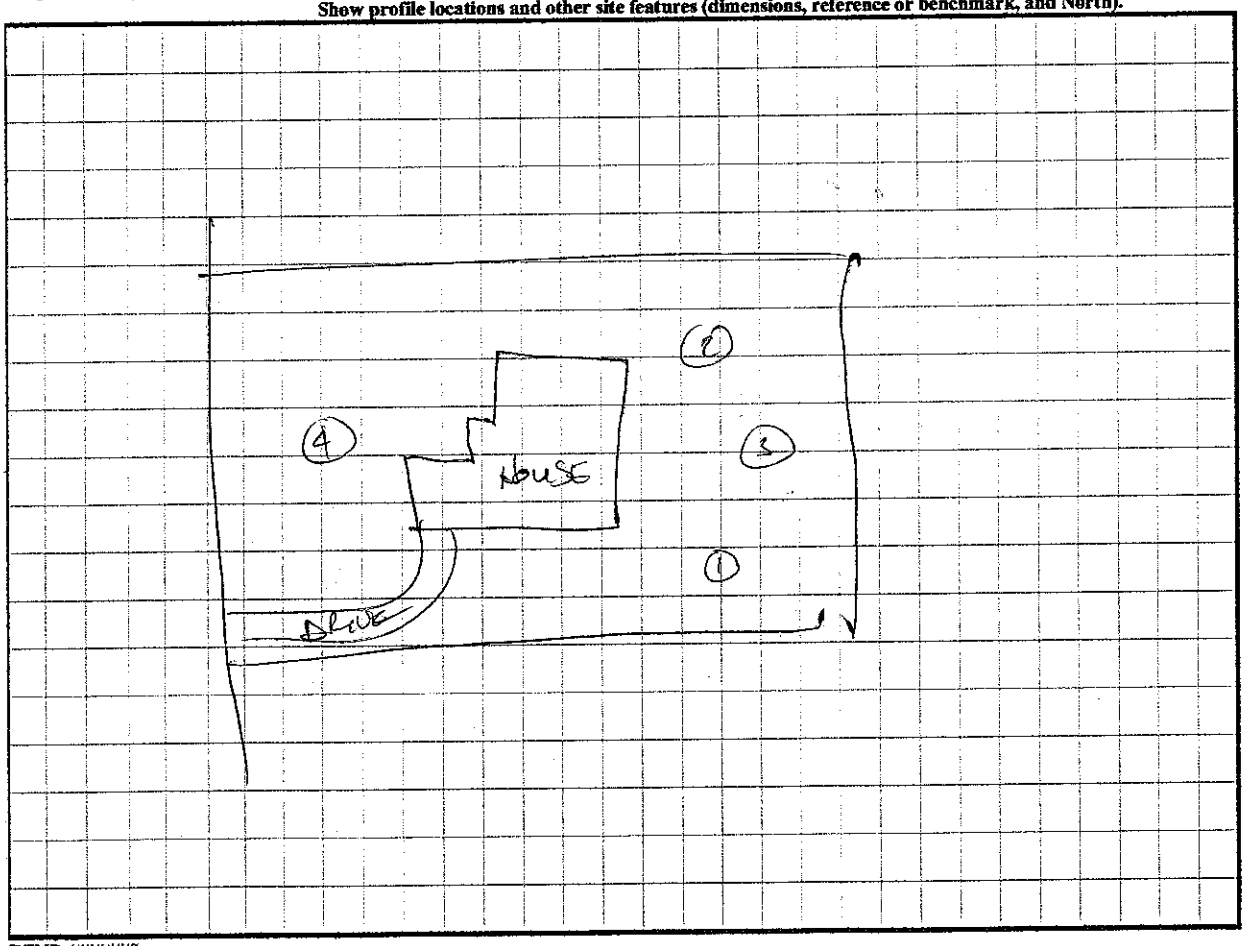
NOTES

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 (#####)