DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 1
PROPERTY ID #: 4715-85-3848
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Castlegate, LLC — APPLICATION DATE 9/1/11
ADDRESS: 116 Hornbeam Ln. Statesville — DATE EVALUATED: 9-28-11
PROPOSED FACILITY: 3ba House — PROPOSED DESIGN FLOW (.1949): 360 gpd — PROPERTY SIZE: 0.59Ac.
LOCATION OF SITE: Hwy 90- Right from Lp. TL Statesville/Shiloh TL Hornbeam — 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 5%	0-8"	gr/L	vfr/Sap	NA	748	NA	NA	PS 0.3
		8-16	SBK/CL	Fr/Sap					
		16-38	SBK/C	Fi/Sap					
		38-48+	wSBK/CL	Fr/Sap					
2	L 5%	0-6"	gr/L	vfr/Sap	NA	748	NA	NA	PS 0.3
		6"-15"	SBK/SCL	Fr/Sap					
		15-37	SBK/C	Fi/Sap					
		37-48+	wSBK/CL	Fr/Sap					
3	L 9%	0-10	gr/L	vfr/Sap	NA	748	NA	NA	PS 0.3
		10-16	SBK/CL	Fr/Sap					
		16-40	SBK/C	Fi/Sap					
		40-48+	wSBK/CL	Fr/Sap					
4	L 8%	0-8	gr/L	vfr/Sap	NA	748	NA	NA	PS 0.3
		8-20	SBK/CL	Fr/Sap					
		20-36	SBK/C	Fi/Sap					
		36-48+	wSBK/CL	Fr/Sap					

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

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.

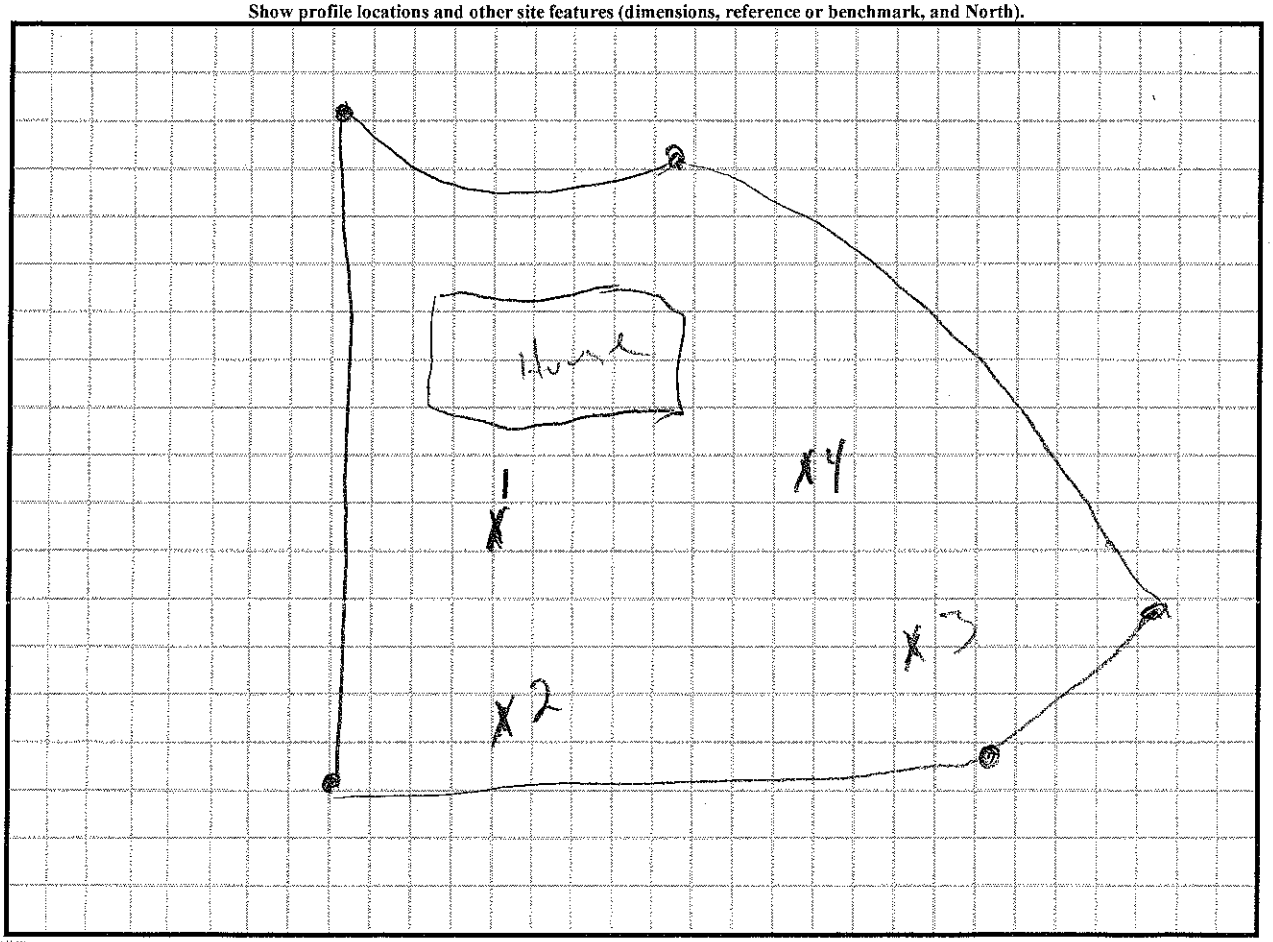
NOTES

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 (#####)