DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL HEALTH

ON-SITE WASTEWATER SECTION

SHEET: 1 of 3

PERMIT #:

PROPERTY ID #:

COUNTY: Iredell

SOIL/SITE EVALUATION *for* ON-SITE WASTEWATER SYSTEM

OWNER/APPLICANT: Jerry Price

ADDRESS:

APPLICATION DATE:

PROPOSED FACILITY: 3 BR SFD

PROPOSED DESIGN FLOW (.1949):

DATE EVALUATED:

LOCATION OF SITE: Lot #26 Elkhole Farms S/D

PROPERTY SIZE:

WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other

PROPERTY RECORDED:

EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut

TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LSCP PSTN/ SLOPE %	HORIZ 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 ~7%+	0-42	1, M, Sbk/Abk, C	Fr, SP, SEXP	Few Yellow & Brown Mottles	>71"	N/A	N/A	PS 0.275
		42-71	1, M, Sbk, CL	Fr, SP, SEXP w/SAP INCLUS.					
2	L	0-17	1, F, Gr, SCL	VFr, NP	N/A	43"	PS (L)	N/A	PS 0.25 0.30 @43"-50"
		17-32	1, M, Abk, C	Fr, SP, SEXP					
		32-43	1, M, Abk, C w/SAP INCLUS.						
		43-70	L SAPROLITE						
3	L	0-17	1, M, Abk, C	Fr/FI, MP, SEXP	N/A	34"	PS (L)	N/A	PS 0.25 0.30 @34"-50"
		17-34	1, M, Sbk, CL	Fr, SP, SEXP w/SAP INCLUS.					
		34-72	L SAP MIX	Fr					
4	L	0-16	2/1, M, Abk, C	Fr, MP, SEXP	Few-Common Yellow & Brown Mottles @16"-25"	53"	PS (L)	N/A	PS 0.30
		16-53	1, M, Abk, C/CL	Fr, SP, SEXP					
		53-73	L SAP MIX						

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	~~II/III~~	~~III/IV~~
Site LTAR	0.30	0.25/0.30

OTHER FACTORS (.1946):

SITE CLASSIFICATION (.1948): PS

EVALUATED BY: P. Mitchell

OTHER(S) PRESENT:

COMMENTS:

*P6, 20N REAR

County: Iredell

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	Si (Silt)	0.6 - 0.3	0.3 - 0.15
L (Linear Slope)		SiCL (Silty Clay Loam)		
N (Nose Slope)		CL (Clay Loam)		
R (Ridge)		SCL (Sandy Clay Loam)		
S (Shoulder Slope)		SiL (Silt Loam)		
T (Terrace)				
	IV	C (Clay)	0.4 - 0.1	0.2 - 0.05
		SC (Sandy Clay)		
		SiC (Silty Clay)		
		O (Organic)	None	None

MINERALOGY/ CONSISTENCE
- NEXP (Non-expansive)
- SEXP (Slightly Expansive)
- EXP (Expansive)

MOIST
- VFR (Very Friable)
- FR (Friable)
- FI (Firm)
- VFI (Very Firm)
- EFI (Extremely Firm)

WET
- NS (Non Sticky)
- SS (Slightly Sticky)
- MS (Mod. Sticky)
- VS (Very Sticky)

- NP (Non Plastic)
- SP (Slightly Plastic)
- MP (Mod. Plastic)
- VP (Very Plastic)

STRUCTURE TYPE
- G (Single Grain) [*Structureless*]
- M (Massive) [*Structureless*]
- CR (Crumb)
- GR (Granular)
- SBK (Subangular Blocky)
- ABK (Angular Blocky)
- PL (Platy)
- PR (Prismatic)
- COL (Columnar)
- CMPD (Compound) [___ parting to ___]

STRUCTURE GRADE
- 0 (Strucutreless)
- 1 (Weak)
- 2 (Moderate)
- 3 (Strong)

STRUCTURE CLASS
- VF (Very Fine)
- F (Fine)
- M (Medium)
- C (Coarse)
- VC (Very Coarse)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape position, wastewater flow and quality.

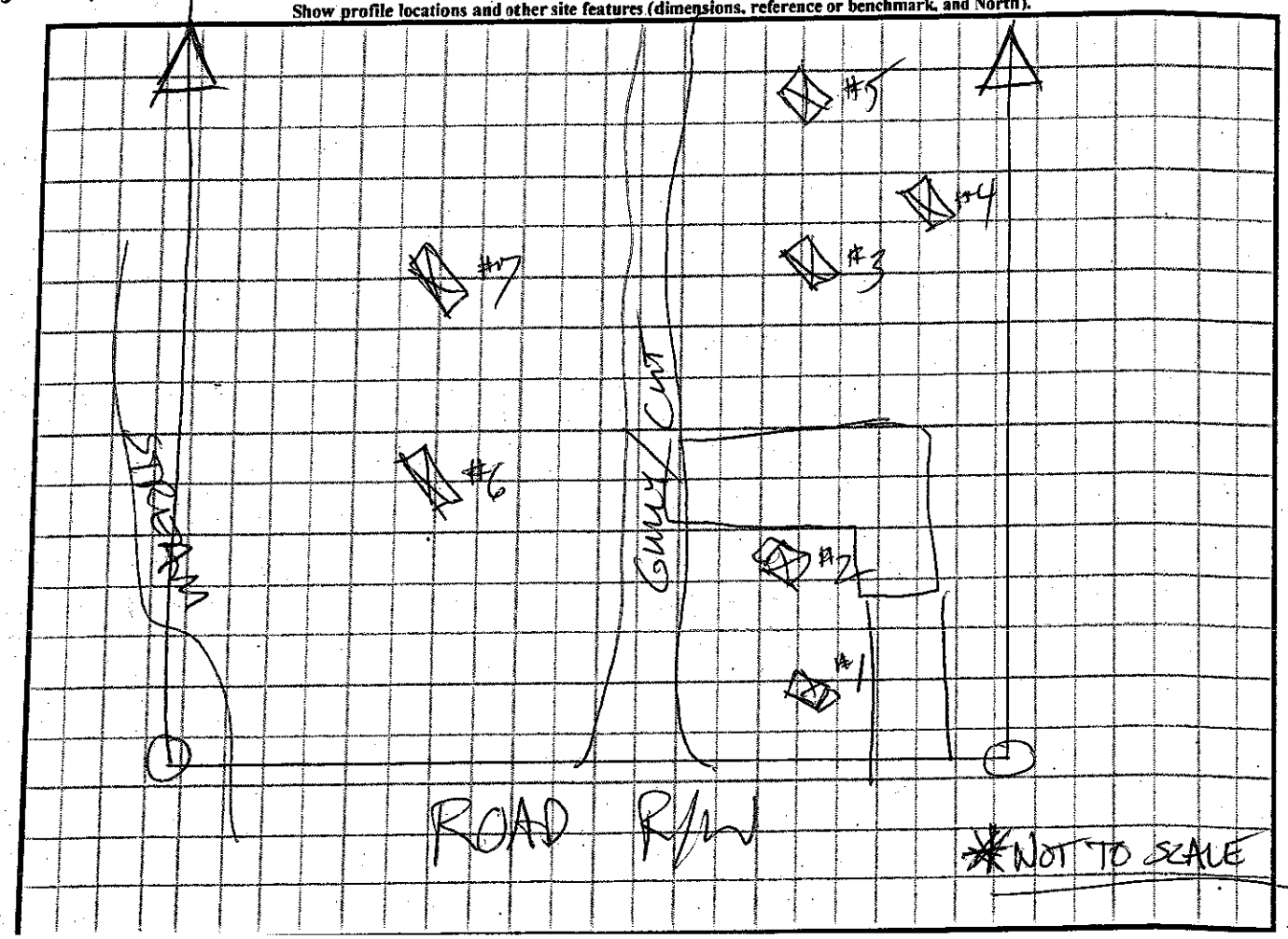
NOTES

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).



SOIL/SITE EVALUATION

(Continuation Sheet)

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

SHEET: 3 of 3
PROPERTY ID #:
COUNTY: Iredell

PROFILE #	.1940 LSCP POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
5	L	0-12	2/1, M, Abk, C	Fr, MP, SEXP	N/A	25"	PS (SL + L)	N/A	PS 0.25 0.30 @ 25"-50"
		12-25	1, M, Abk, C + SAP MIX						
		25-72	SL + L SAP MIX						
6	FS/L ~4%	0-7	1, M, Gr, SCL	Fr, NP/SP, SEXP	FEW-COMMON 2.5YR 2.5/2 5YR 4/6 @ 29"+	7"	N/A	N/A	US
		7-23	0/1, Gr, CL	Fr, SP, SEXP					
		23-53	1, Abk, C	Fr, SP, SEXP					
7	FS/L	0-12	1, M, Gr, SCL	VFr, SP, SEXP	FEW-COMMON 2.5Y 2.5/2 5YR 4/6 @ 25"+	12"	N/A	N/A	US
		12-42	1/0, Gr, CL	Fr, SP, SEXP					
		42-56	1/0, Gr, SCL	Fr, SP, SEXP					
8									
9									

COMMENTS:

* CUT + GRADE PITS #3, #4, + #5 AREA TO SMOOTH + CREATE CONTOUR LINES.
— Removed ~2' of soil in this area.