DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL HEALTH

ON-SITE WASTEWATER SECTION

SHEET: 1 of 2

PERMIT #:

PROPERTY ID #:

COUNTY: Iredell

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

OWNER/APPLICANT: Derek Osborne

ADDRESS:

APPLICATION DATE:

DATE EVALUATED:

PROPOSED FACILITY: 4 BR SFD PROPOSED DESIGN FLOW (.1949): 480 GPD

LOCATION OF SITE: Lot #22 New Salem Est SD

PROPERTY SIZE: ~3/4 Ac

PROPERTY RECORDED:

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

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	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
1	L ~4%	0-4	L, M, Gr, SL	VFr, NP		48"+	N/A	N/A	PS 0.25 w/ ≥ 30" T. Depth
		4-8	L, F, Gr, VFSL	VFr, NP/SP					
		8-17	L, M, sbk, C	Fr, SP, SEXP					
		17-28	L, M, sbk/pl^{3}, C	Fr, SP, SEXP w/ Few Redox Features (NO CHRMA 2)					
		28-42	2/L, M, Absk, C	Fr, SP, SEXP					
[redacted]		42-48	L, M, sbk, C w/ SAP Inclus.						
2	L	0-4	L, M, Gr, SCL	VFr, NP/SP		48"+	N/A	N/A	PS 0.25
		4-21	1/F/M, sbk, C	Fr, SP, SEXP					
		21-25	2/L, F, Absk, C	Fr, SP, SEXP w/ Redox Features (NO Chroma 2)					
		25-48	L, M, sbk, C	Fr, SP, SEXP					
3	L	0-3	L, M, Gr, SL	VFr, NP		48"+	N/A	N/A	PS 0.25
		3-18	L, M, sbk, C	Fr, SP, SEXP					
		18-44	1/F/M, Absk, C	Fr, SP, SEXP					
		44-48	1, M, sbk, C w/ SAP Inclus.						

Few Redox @ ~18"-25" No chroma 2

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

OTHER FACTORS (.1946):

SITE CLASSIFICATION (.1948): PS

EVALUATED BY: R. Mitchell

OTHER(S) PRESENT:

COMMENTS:

* 2 ON REAR

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).

