DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 1
PROPERTY ID #: 4798395740
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Buttke Dairy
ADDRESS: 5796 Walker Mill Rd.
PROPOSED FACILITY: SFD
PROPOSED DESIGN FLOW (.1949): 240gpd
LOCATION OF SITE: 116 Dairy View Ln
WATER SUPPLY: • Private • (Public) • Well • Spring • Other
EVALUATION METHOD: • (Auger Boring) • Pit • Cut

APPLICATION DATE 7-2-15
DATE EVALUATED: 7-20-15
PROPERTY SIZE: 75.66 acres
PROPERTY RECORDED: Yes
N/A
TYPE OF WASTEWATER: • (Sewage) • Industrial Process • Mixed

PROFILE #	.1940 LANDSCAPE 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
1	5% L	0-20	C	micaceous ABK / Fr mod SE	>48"	42"	42"	42"	PS 0.25
		20-42	BC	micaceous / soap root WABK / Fr mod SE					
		42-48	SAP						
2	5% L	0-9	SCL	Compacted Fr mod SE	>48"	44"	44"	44"	PS 0.25
		9-24	C	ABK Fr mod SE					
		24-44	BC	↑SAP Fine WABK Fr mod SE					
		44-48	SAP						
	4% slight NS	0-18"	Fill		>48"	>48"	>48"	>48" (0-18" Fill)	PS 0.275 TB @ 36"
		18-30"	SCL	SBK Fr mod SE					
		30-42"	C	SBK Fr mod SE					
		42-48"	BC	Soap Root WSBK Fr mod SE					
	6% slight NS	0-11"	Fill		>48" Y/B mottles 32-48"	>48"	>48"	>48" (0-11" Fill)	PS 0.25
		11-19"	SCL	SBK Fr mod SE					
		19"-32"	C	Heavy Clay SBK Fr mod SE					
		32"-48"	BC	Y/B Mottles WSBK Fr mod SE					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
lable Space (.1945)	PS	PS
m Type(s)	III	III
TAR	0.275	0.25

OTHER FACTORS (.1946): N/A
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Justin Hankins
OTHER(S) PRESENT: N/A

ENTS: N/A

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)
	(V)	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.

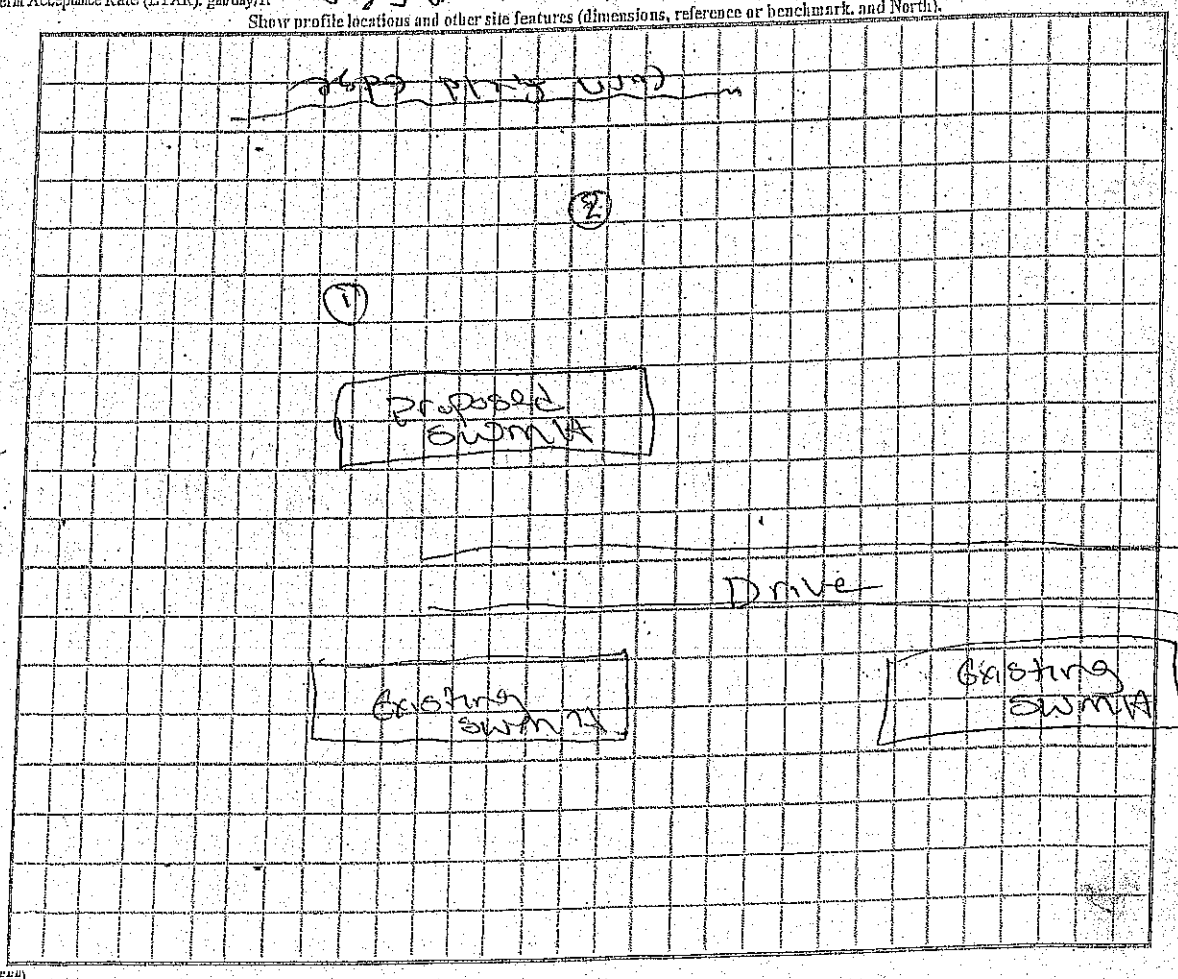
NOTES

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)

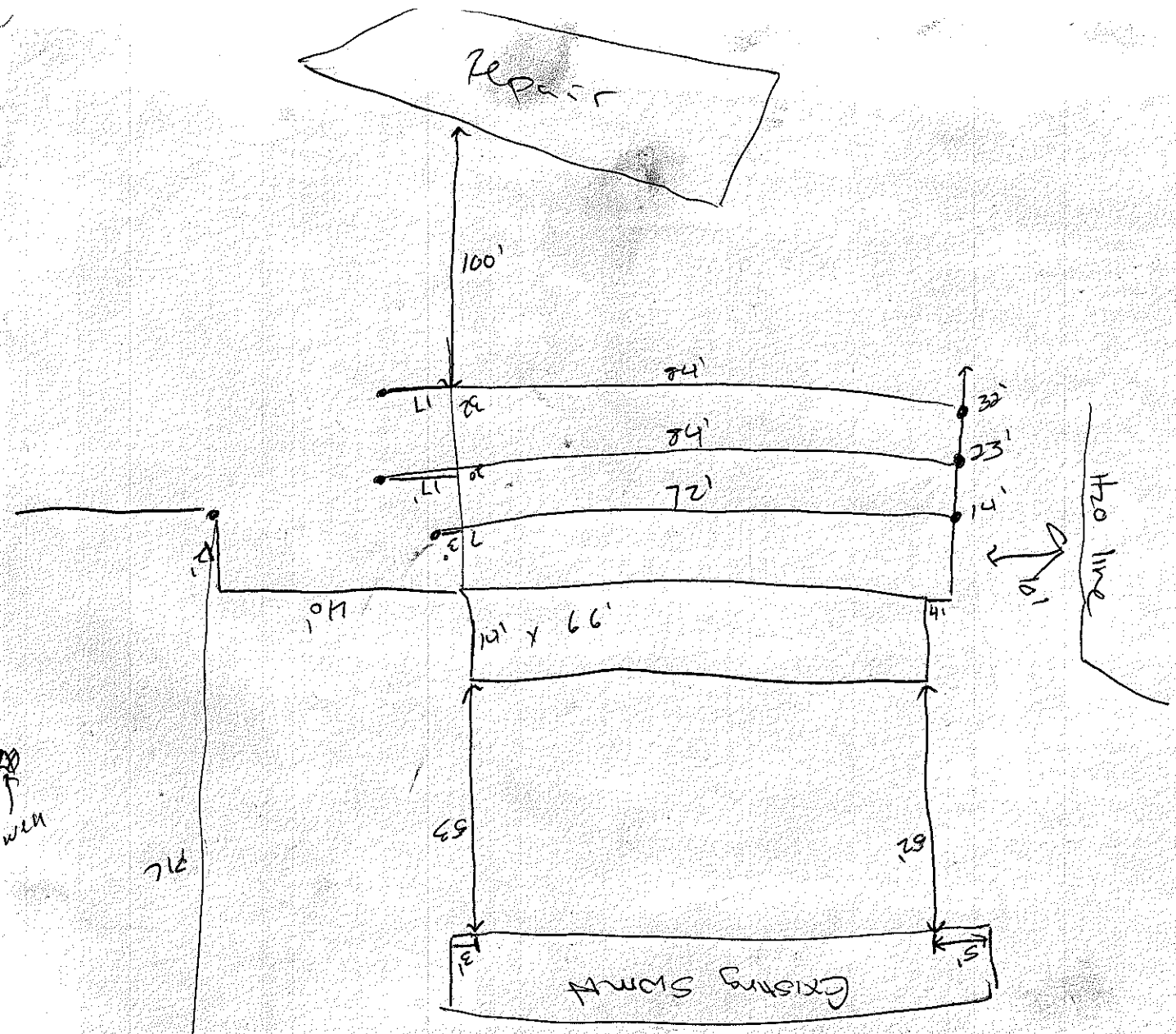
Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft²

Show profile locations and other site features (dimensions, reference or benchmark, and North).



DENR (Reviewer)
Review (Reviewer)


Repair
100'
84'
84'
72'
17'
17'
32'
23'
14'
32
7
3'
10'
41'
14' x 99'
H2O line
10'
53'
62'
3'
5'
Existing SWMH
WELL
PL