DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 3
PROPERTY ID #: 5898
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Benjamin Loftis
APPLICATION DATE: 4/28/16
ADDRESS: 202 Dogwood Forest Harmony NC
DATE EVALUATED: 6/9/16
PROPOSED FACILITY: SFR
PROPOSED DESIGN FLOW (.1949): 600 GPD
PROPERTY SIZE: 50 Acres
LOCATION OF SITE: 275 Dutchman Rd. Harmony NC
PROPERTY RECORDED: Yes
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	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
P 1	LS 15%	0-12	RC, SBK/some 2BK	FR, SS, SP	/	39"	PS	39"	.3 0-39"
		12-39	RCL, SBK/some 2BK	FR, SS, SP			C-M SAP INCL 11"-39"		
		39-67	Mass SAP	FR/VFR, SS, SP					
P 2	LS 15%	0-27	RC, SBK/some 2BK	FR, SS, SP	/	37"	PS C-M SAP INCL 25"-37"	/	.3 .35 35"-67"
		27-37	RCL, SBK/some 2BK	FR, SS, SP					
		37-67	Mass SL SAP						
P 3	LS 15%	0-21	RC, SBK/some 2BK	FR, SS, SP	/	31"	PS C-M SAP INCL 18"-31"	/	.3 0-31" .35 31"-67"
		21-31	RCL, SBK	FR, SS, SP					
		31-67	Mass SL SAP	VFR, SS, SP					
P 4	LS 15%	0-31	RC, SBK	FR, SS, SP	/	47"	PS C-M SAP INCL	/	.3 0-47" .325 47-67"
		31-47	RCL, WSBK	" " "					
		47-67	Mass SL SAP	VFR, SS, SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Approved	Approved
Site LTAR	.3	.3

OTHER FACTORS (.1946): —
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: SC
OTHER(S) PRESENT: B. Loftis

COMMENTS: Some Consolidated Rock in P1 39"-67", Best To Keep System Above 39"

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LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL 1955 LTAR*	LPP 1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope) CV (Convex Slope) D (Drainage Way) DS (Debris Slump) FP (Flood Plain) FS (Foot Slope) H (Head Slope) L (Linear Slope) N (Nose Slope) R (Ridge) S (Shoulder Slope) T (Terrace)	I	S (Sand) LS (Loamy Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive) SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain) M (Massive) CR (Crumb) GR (Granular) SBK (Subangular Blocky) ABK (Angular Blocky) PL (Platy) PR (Prismatic)
	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3		
	III	Si (Silt) SiCL (Silty Clay Loam) CL (Clay Loam) SCL (Sandy Clay Loam) SiL (Silt Loam)	0.6 - 0.3	0.3 - 0.15		
	IV	SC (Sandy Clay) SiC (Silty Clay) C (Clay) O (Organic)	0.4 - 0.1 None	0.2 - 0.05 None		

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.

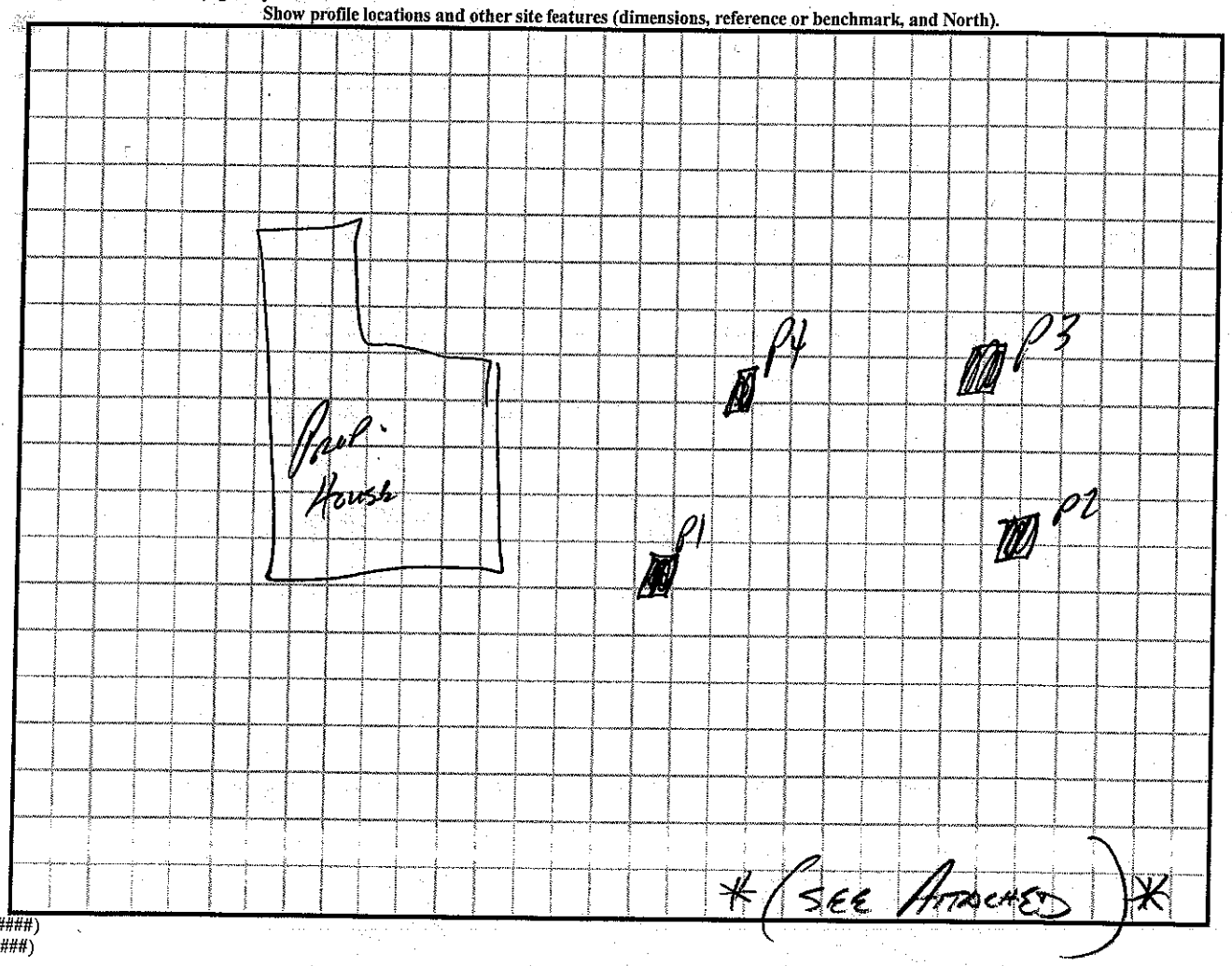
NOTES

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).

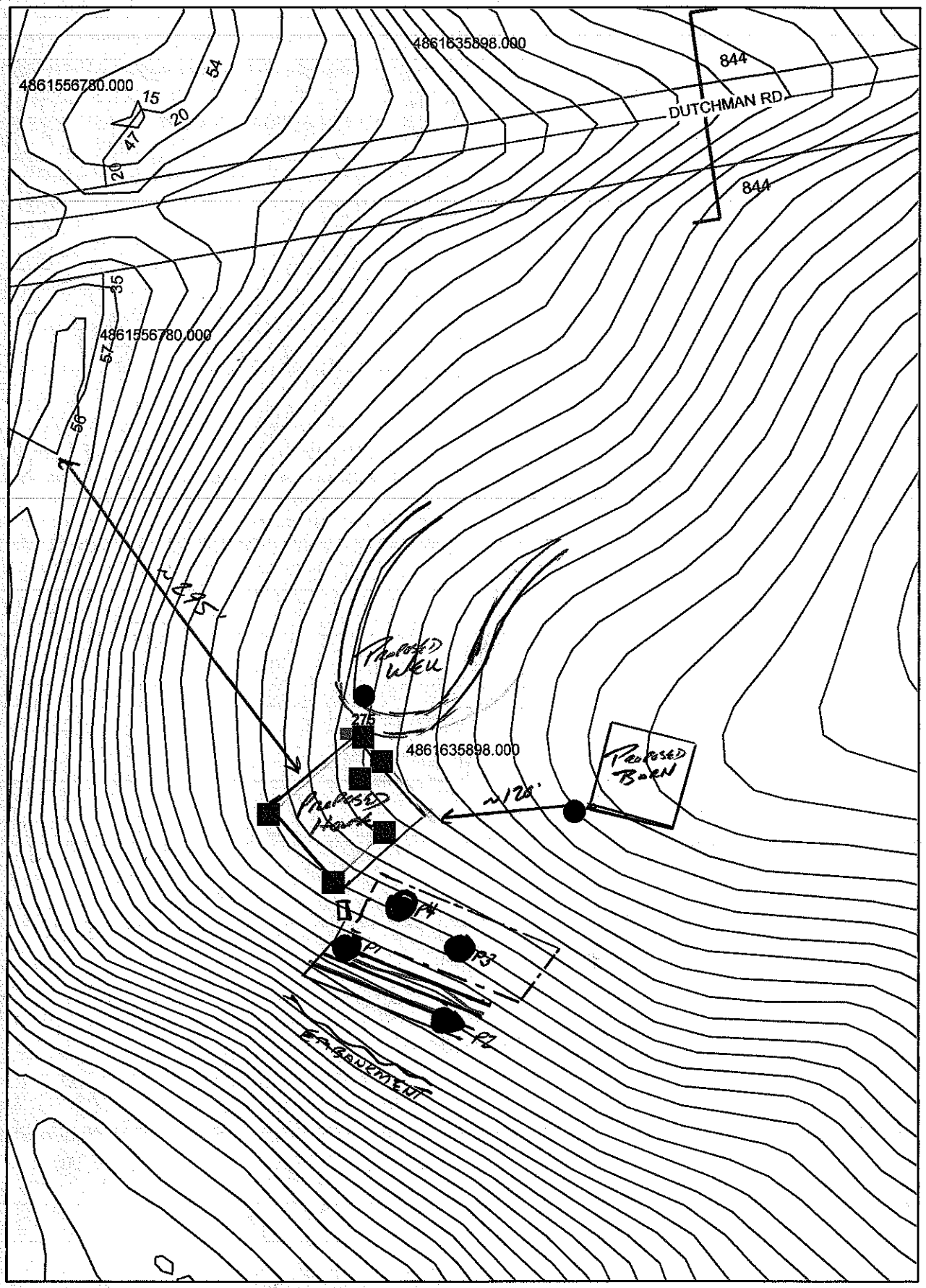


DENR (######)
Review (#####)

* Soil Notes * 3/3

1 inch = 100 feet

1:1,200



4 x 125' @ .3 21" Lowside TB