DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 4

PROPERTY ID #: 7166

COUNTY: IREDELL

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: J. PARLIER

APPLICATION DATE 7/29/15

ADDRESS:

DATE EVALUATED: 9/20/15

PROPOSED FACILITY: SFR

PROPOSED DESIGN FLOW (.1949): 480 GPD

PROPERTY SIZE: 1 ACRE

LOCATION OF SITE: 112 NAUTILUS COURT TROUTMAN NC

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	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
P1	LS 12%	0-19	RL, SBL	FR, SS, SP		38"			.325
		19-38	RCL, SBK	" " "					
		38+	MASS SAP	VFR, SS, SP					
P1	LS 12%	0-6	BSCL, WSBK	FR, SS, SP	N/A	48"	C-M SAP INCL 20"-48"	N/A	.3
		6-20	RCL, ABK	FR, SS, SP					
		20-48	RCL, SBK	FR, SS, SP					
P2	LS 13%	0-5	BSL, GR	VFR, SS, SP	N/A	45"	PS C-M SAP INCL 23"-45" SL SAP 45"-55"	N/A	.325
		5-23	RL, MSBK	FR, SS, SP					
		23-45	RCL, WSBK	FR/VFR, SS, SP					
		45-55"	MASS SL SAP	VFR, SS, SP					
P3	LS 15%	0-6	BSL, GR		N/A	55"	C-M SAP INCL 24"-55"	N/A	.3
		6-24	RC, MSBK	FR, SS, SP					
		24-55	RCL, SBK	" " "					

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

OTHER FACTORS (.1946): N/A

SITE CLASSIFICATION (.1948): PS

EVALUATED BY: SHAWN CASHMAN

OTHER(S) PRESENT: JODY PARLIER

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet)

Sheet 3 of 4

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: 7166
DATE OF EVALUATION:
COUNTY:

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
P 4	CV 12%	0-20	RC, SBK/ABK	FR, SS, SP	N/A	30"	PS C-M SAP INCL 20"-30"	N/A	.35
		20-30	RCL, SBK	" " "					
		30-64	Mass SL Sap	VFR, SS, SP					

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.

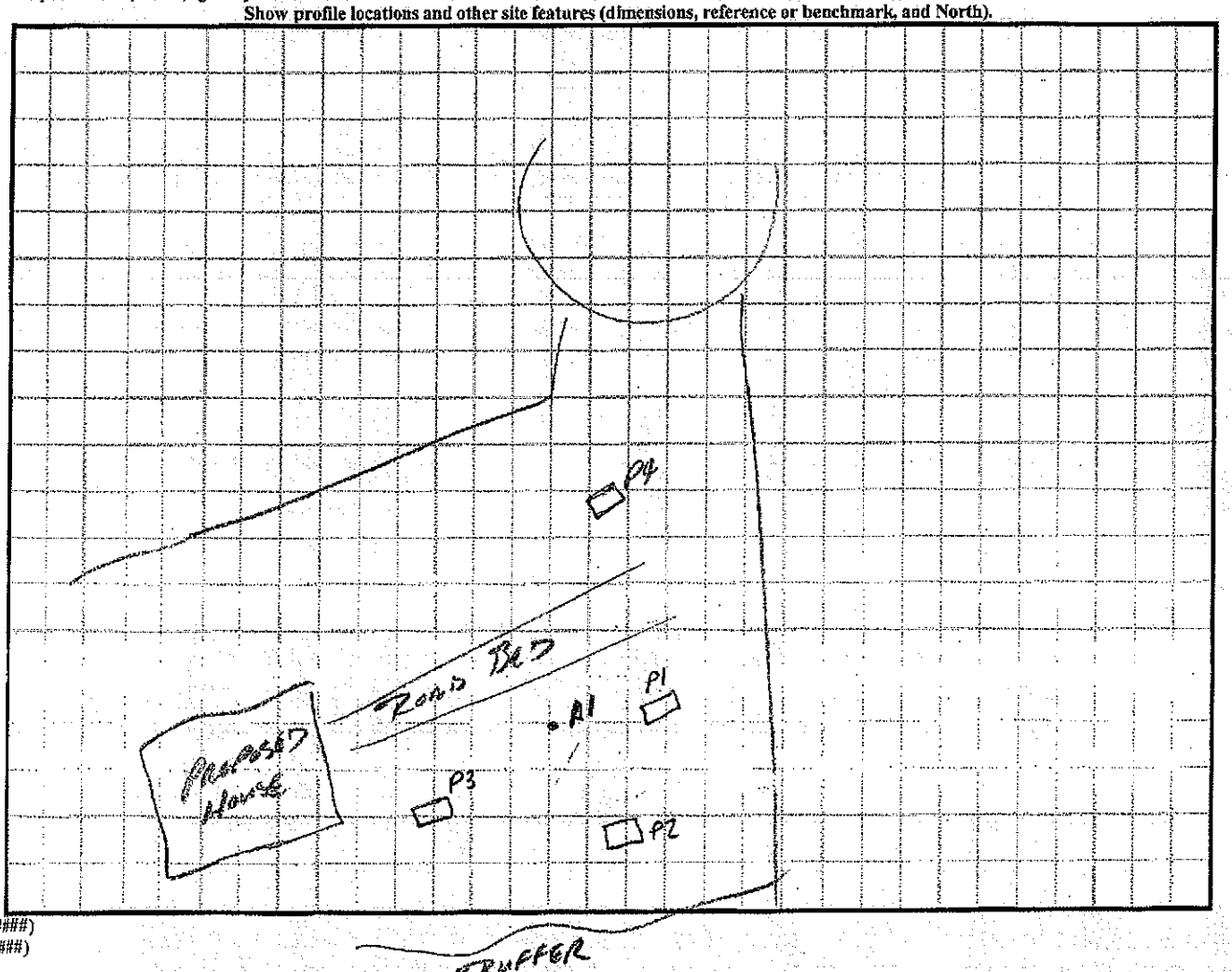
NOTES

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)

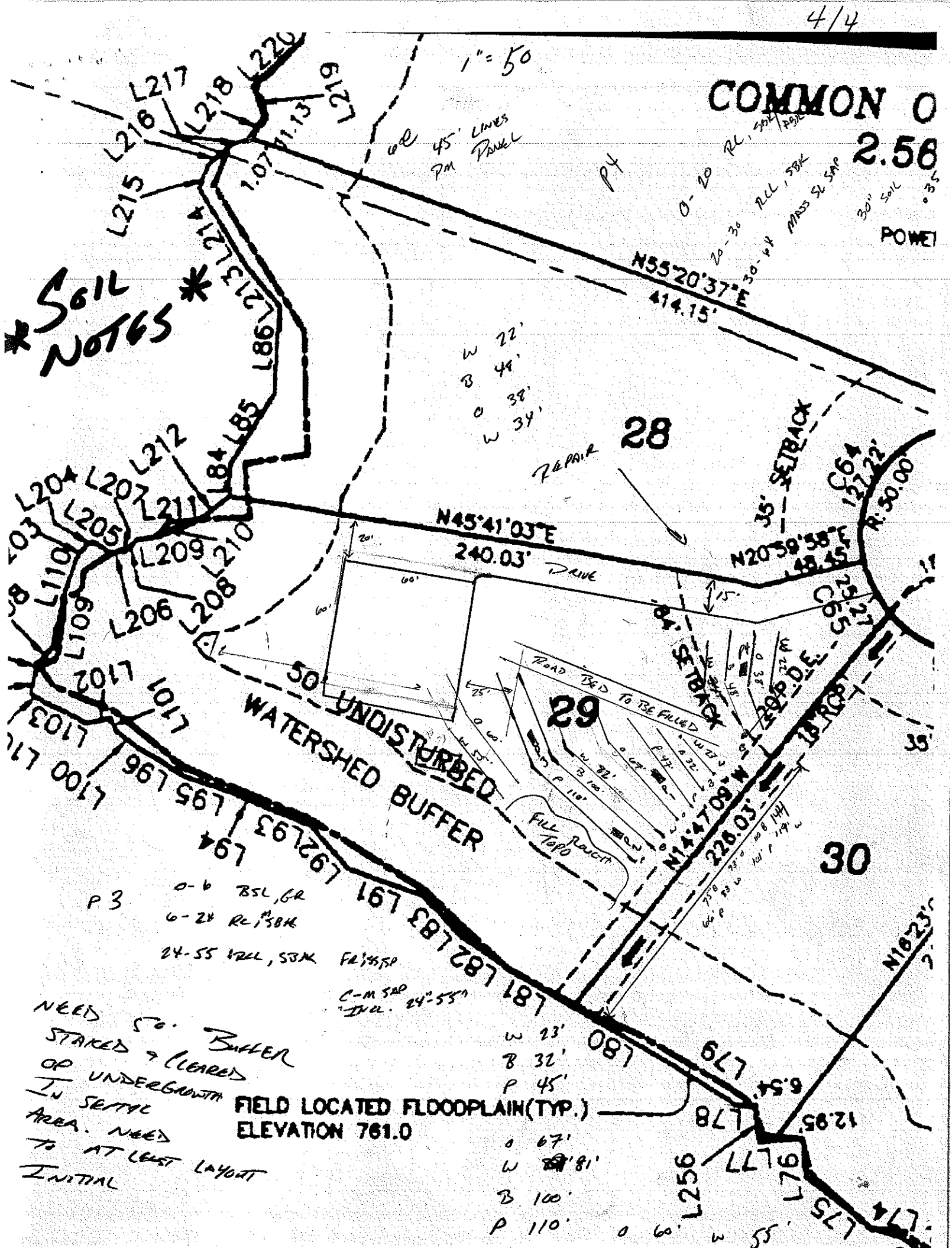
Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

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



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


1" = 50
COMMON O
2.56
POWE
SOIL NOTES
N55°20'37"E
414.15'
28
REPAIR
35' SETBACK
N45°41'03"E
240.03'
DRIVE
N20°59'38"E
48.35'
R=50.00
29
ROAD TO BE FILLED
50' UNDISTURBED WATERSHED BUFFER
FILL TOPO
N14°47'09"W
226.03'
30
NEED 50' BUFFER STAKED & CLEARED OF UNDERGROWTH IN SEPTIC AREA. NEED TO AT LEAST LAYOUT INITIAL
FIELD LOCATED FLOODPLAIN(TYP.)
ELEVATION 761.0
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P4
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