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

Sheet 1 of 1
PROPERTY ID #:
COUNTY: IREDELL

4648-21-4712

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: BO of NC INC APPLICATION DATE 6-25-04
ADDRESS: 249 WILLIAMSON ROAD SUITE 101, MOORESVILLE NC 28117 DATE EVALUATED: 7-17-04
PROPOSED FACILITY: 4 BR HOUSE PROPOSED DESIGN FLOW (.1949): 480 PROPERTY SIZE: 0.57 ACRE
LOCATION OF SITE: LOT #2 JAMES P. SMITH 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	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
PIT 1	L 8%	0-7	MFSBK COARSE QUARTZ/SC	VFR SEP	2.5Y 6/3 RELIC				PS 0.4
		7-43	WFSBK FINE QUARTZ SC	VFR SEP					
		43-48	MATRIX WFSBK SAPROLITE MIX W/ L	VFR SEP					
PIT 2	L 7%	0-10	SFSBK C	FR SEP	2.5Y 8/4 RELIC PATCHY 2.5Y 8/4 RELIC PATCHY		U @ 43"		PS 0.25
		10-23	MCABK C	FI SEP					
		23-43	MMABK C	FI SEP					
		43-49	WFABK SAP/CL	FR SEP					
AUGER 3	L 6%	0-9	FILL		10YR 2/0 RELIC		PS		PS 0.3
		9-12	GR L	VFR SEP					
		12-36	WFSBK C	FR SEP					
		36-48	WFSBL SAP MIX C	FR SEP					
4									

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

OTHER FACTORS (.1946): NEIGHBORING WELL / SYSTEM
SITE CLASSIFICATION (.1948): P
EVALUATED BY: S. HENDRICK
OTHER(S) PRESENT: DIANE KADLAW

COMMENTS:

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTU
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	SCL (Sandy Clay Loam)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiL (Silt Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SiCL (Silty Clay Loam)			**MOIST**	**WET**
S (Shoulder Slope)		Si (Silt)				
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		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.**

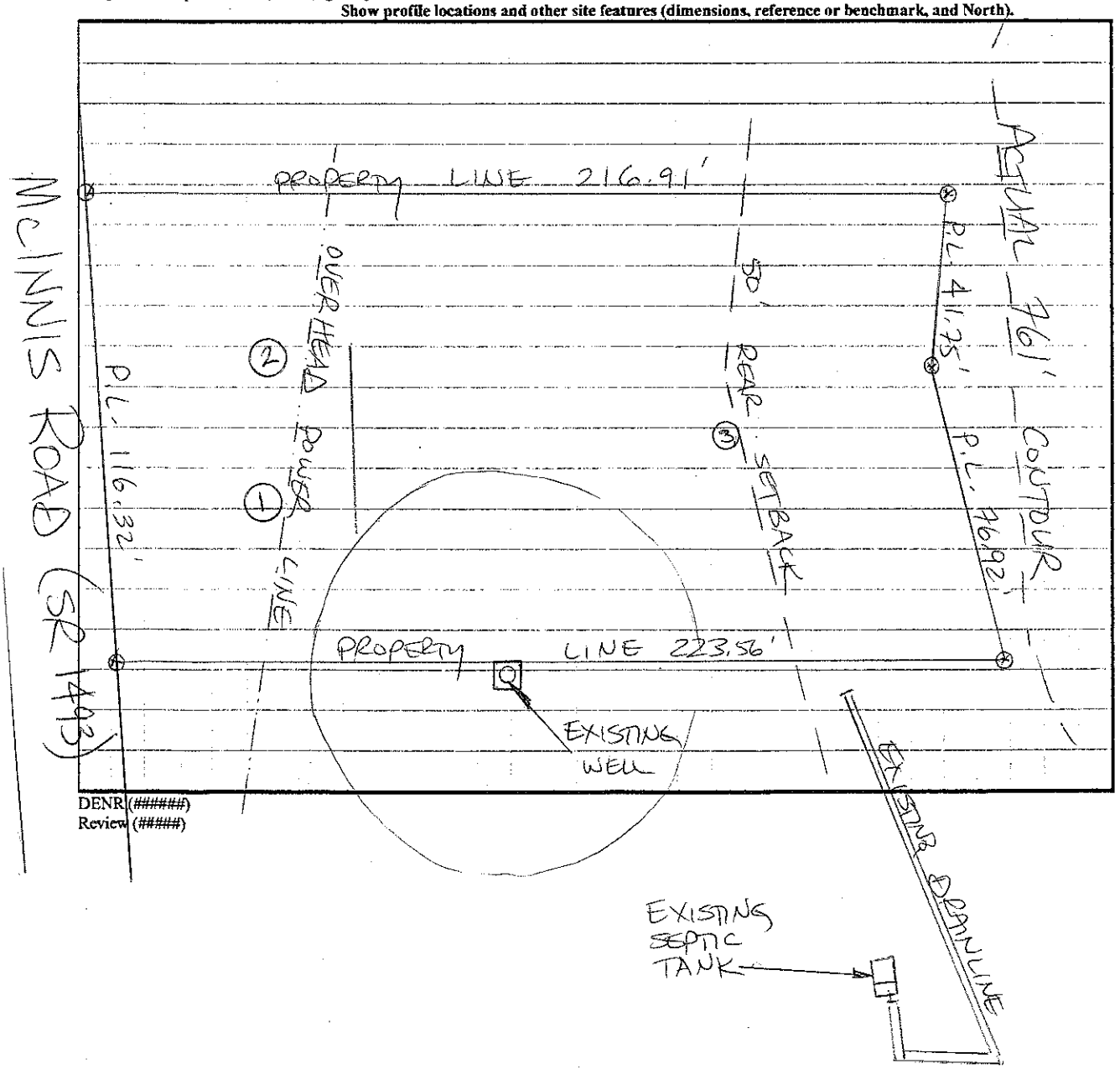
NOTES

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 (#####)