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

PAGE 1

Sheet ___ of ___
PROPERTY ID #: _____
COUNTY: _____

SOIL SHEETS FOR LOTS 10, 14, 15

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

OWNER: EXPRESSION HOMES — APPLICATION DATE: 11-4-04
ADDRESS: 1042 CHARLOTTE HWY MOORESVILLE, NC 28115 — DATE EVALUATED: 12-4-04
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: BUFFALO ACRES — PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☑ Other COMMUNITY
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
1	40/b L	0-8"	scl wk gr	fr ss sp sckp	0-30" FILL ? LAYERED				OS
		8-30	cl yellow/grig stains (common) 2 at 30"						
		30-50	(common)	stains hard clay fr sp sckp					
2	40/c L	SAME AS HOLE 1							OS
3	40/b L	0-6	scl wk gr	fr ss sp sckp					PS .3
		6-55	cl mod sbk	fi s p sckp					
			mica flakes						
4		0-6	scl wk gr	fr ss sp sckp					PS .35
		6-24	cl mod sbk	fi s p sckp					
		24-60"	sc wk gr	fr ss sp sckp					
HOLES 5		& 6 SEE BACK *							

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

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): 10 PS / 14 PS / 15 PS
EVALUATED BY: ER. HOMES / CHRIS THOMPSON
OTHER(S) PRESENT: L. CODY

COMMENTS:
LOT 10 .3
(E) GRW 50% RED (R) LD 50% RED .3 / LOT 14 .3
(E) PUMP 50% RED (R) LD 50% RED .25 / LOT 15 .3
(E) PUMP 50% RED (R) LD 50% .3

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/ft²

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

PS .25

(5) 0-6" scl wk gr fr ns np sep
6-24" c mod sbk fi s p sep yellow/brown mottles mixed with relic sap inclusions
24-60" sc wk gr fi ss sp sep sap inclusions .25 PS
THIS PIT DUG ON REPATH LINE AT ELW0

PS 3

(6) 0-6 scl wk gr fr ns np sep
6-48" c mod sbk fi s p sep
48-60" sc / sap inclusions >50% fr ss sp sep PS .3

LOT 10

PS .3

(7) 0-6 scl wk gr fr ns np sep
6-24 c mod sbk fi s p sep
24-60" sc/sap mix fr ss sp sep
sap >50%
well for neighbors >100'

PS .3

(8) 0-6 scl wk gr fr ns np sep
6-48' c mod sbk fi s p sap mica flakes

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

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PAGE 2

Sheet ___ of ___
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SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _____ APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: _____
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): 360 PROPERTY SIZE: _____
LOCATION OF SITE: LOTS 10/14/15 OFF SITES/ETC... 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
1	6% L	0-12" 12-60"	scl/sl pockets alluvial deposits yellow c med sbk fis pscp		grey color chroma 2 @ 18" H2O Infiltration Into Pit		chroma 2	mixed	US
2	8% L	0-24" 24-48"	cl/scl mix yellow/grey mix c med sbk H2O infiltration into pit	chroma 2 f ss sp scp f is p scp	chroma 2	> 50% of profile			US
3	40% L	0-18" 18"-48"	scl fill c med sbk c chroma 2 & red clay fine	f is p scp	chroma 2 stripes	18"+ look	> mixed		US
4					OFF SITE NEXT OPTION				

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SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____

COMMENTS: _____

LEGEND

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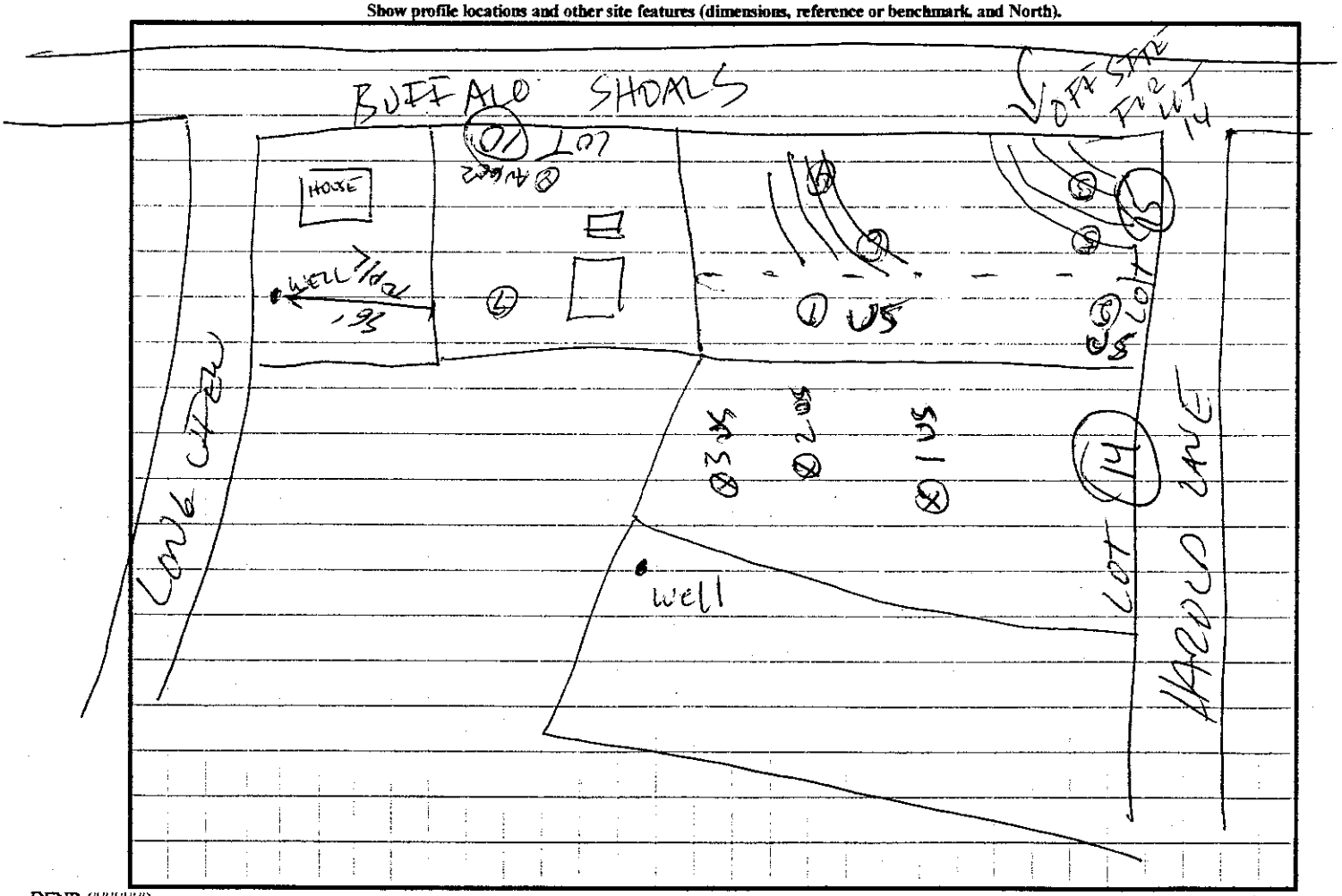
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DENR (######)
Review (#####)

SYSTEMS SHOT IN + PLOTTED. THEN PITS WERE DUG