Asheville

EPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
IVISION OF ENVIRONMENTAL HEALTH
N-SITE WASTEWATER SECTION

Sheet 1 of 2
PROPERTY ID #:
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

WNER: Jeff Lancaster
DDRESS: Perthwood Dr.
ROPOSED FACILITY: 3 BR Res. PROPOSED DESIGN FLOW (.1949): 360 gpd
OCATION OF SITE: 115 S, Rt on Reth, Rt on Perthwood Dr. Rowan Rd.
APPLICATION DATE 04
DATE EVALUATED: 04
PROPERTY SIZE: ±1.65
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) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SA/PRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
P 1	L 6-10%	0-10	Hbmgr/sl	Fr NS NP NEXP	chroma 2 mtls @ 33"	60"	N/A	33"	PS-33" 0.2 gpd/ft²
		10-33	Rsbk/c	Fr SS SP SEXP					
		33-60	Rsbk/c	Fr SS SP SEXP					
P 2	L 6-10%	0-9	Hbmsl/gr	Lo NS NP NEXP	Chroma 3 mtls Chroma 2 mtls	60"	N/A	28"	PS-28" 0.2 gpd/ft²
		9-28	RC/Abk/sbk	Fr SS SP SEXP					
		28-60	RC/Abk/sbk	Fr SS SP SEXP					
P 3	RT 0-5%	0-8	Hbmsl/sr	L NS NP NEXP	chroma 2 mtls	58"	N/A	36"	PS-36 0.25 gpd/ft²
		8-36	RC/Abk/sbk	Fr SS SP SEXP					
		36-58	RC/Abk/sbk	Fr SS SP SEXP					
P 4	RT 0-5%	0-10	Hbmsl/sr	L NS NP NEXP	chroma 2 @ 28"	59".	N/A	28"	PS-28" 0.2 gpd/ft²
		10-28	RC/Abk/sbk	Fr SS SP SEXP					
		28-59	RC/Abk/sbk	Fr SS SP SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	13505F	18665F
System Type(s)	At-grade Conv.	At grade Conv
Site LTAR	0.2	02

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Samuel A. Rollins, LSS
OTHER(S) PRESENT: Brady Freeman, RS & Lorne Cook, RS

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet)

Sheet ___ of ___

EPARTMENT OF ENVIRONMENT
ND NATURAL RESOURCES
IVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: _____
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	
P5	RT 0-5%	0-8	Hbm sl/sr	Fr, NS NP NExP	chroma 2 @ 32"	56"	N/A	32"	PS-32" 0.225 spd/ft²
		8-32	RC/sbk/Mbk	Fr SS SP SExP					
		32-56	RC/sbk/Mbk	Fr SS SP SExP					
P6	L 0-10%	0-36	RC/sbk	Fr SS SP SExP	N/A	55"	42"	N/A	PS-55 0.3 spd/ft²
		36-42	RC/sbk	Fr SS SP SExP					
		42-55	Rdg l sap/sbk	Fr NS NP NExP					

COMMENTS: _____

LOWES SOILS

PAGE 1

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

Sheet 1 of 2
PROPERTY ID #:
COUNTY:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: JEFF LANCASTER
ADDRESS:
PROPOSED FACILITY: 3BR HOUSE
PROPOSED DESIGN FLOW (.1949): 360
LOCATION OF SITE: PERTHWOOD LOT 33

APPLICATION DATE
DATE EVALUATED:
PROPERTY SIZE:
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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	DIFFERENT	0-8"	scl wk gr	fr sp np mvp	2.5y 7/2 @ 24"		N/A	24"	0.2
		8-56"	c med abk/sbk	fr ss sp mvp	2.5y 7/6 @ 24" to 48"				
2		0-10"	scl wk gr	fr ss sp mvp	manganese stains			28"	0.2
		10-60"	c med abk/sbk	fr ss sp mvp	2.5y 6/4 @ 18" & > 5y 7/4 @ 26" & > 2.5 7/2 @ 28"				
3	DIFFERENT	0-10"	scl wk gr	fr ss sp mvp	2.5y 7/6 @ 20" 2.5y 7/3 @ 24" 2.5y 6/6 @ 24" 2.5y 7/2 @ 26" 2.5y 7/3 @ 30"		7 mixed to 40" then no mottles	26"	0.2
		10-58"	c med abk/sbk	fr ss sp mvp					
4		0-10"	scl wk gr	fr ss sp mvp	5y 6/6 @ 18" 5y 7/2 @ 25" 5y 7/2 26-38" MANGANESE STAINS THROUGHOUT			28"	0.2
		10-59"	c med abk/sbk	fr ss sp mvp					
		(Lighter Red Clay @ 24")							

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	YES	YES
System Type(s)	GRAV 25%/100%	GRAV 25%/100%
Site LTAR	.2	.2

OTHER FACTORS (.1946): LATERAL H2O Steve Hedrick
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: L. COOK B. FREEMAN @ 5:15
OTHER(S) PRESENT: A. ROLLINS
Steve Hedrick - LATER

COMMENTS:
25" TB DUE TO SLOPE

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.

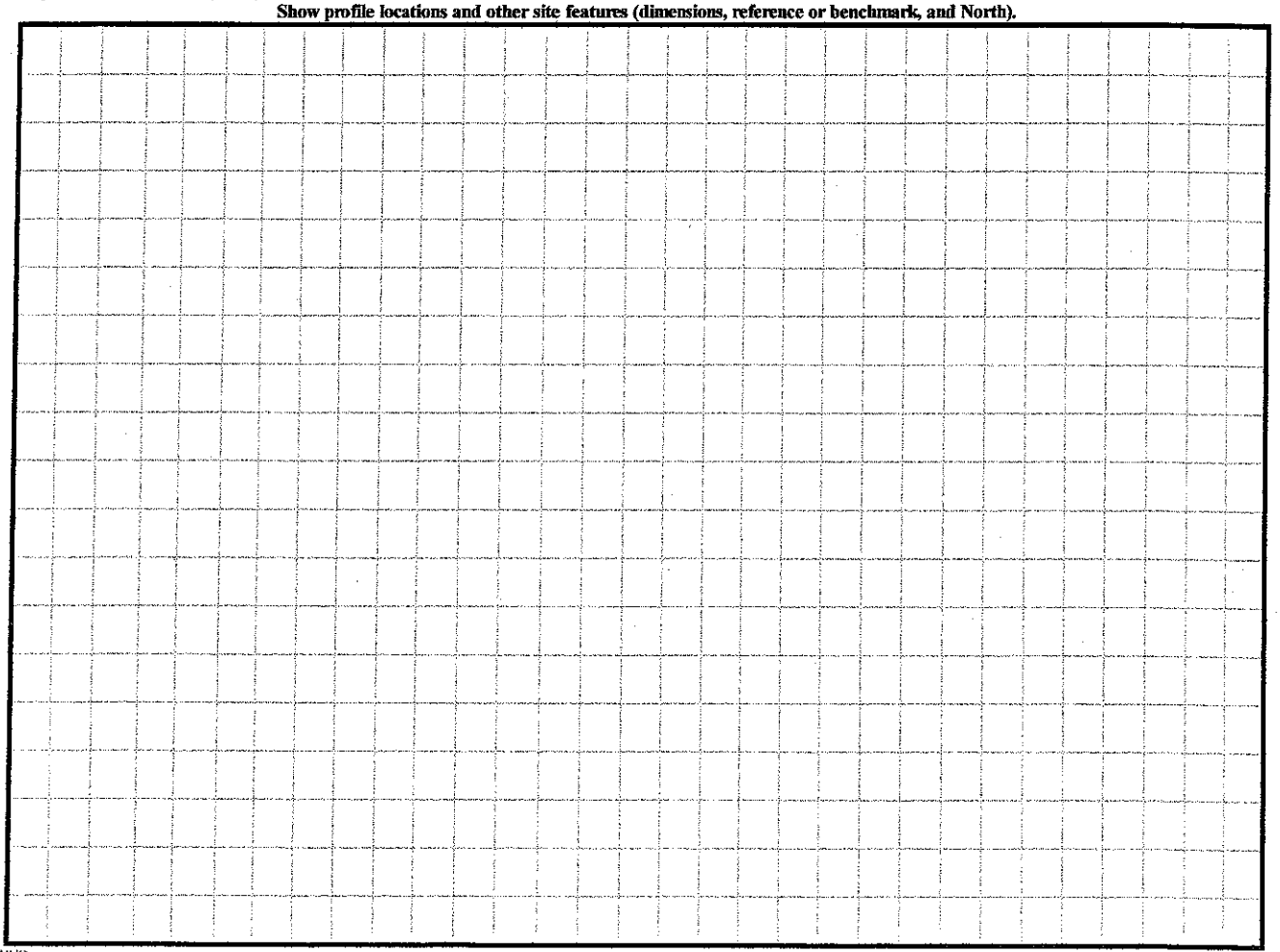
NOTES

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 (#####)

PAGE 2

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

Sheet 1 of 2
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _____ APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: _____
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: _____ 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
5		0-10"	scl wk gr	fr nonp nonss	2.5Y 7/6 @ 20"			32"	PS .25
		10-56"	c med sbk/sbk	fr ss sp ss vp	5Y 7/6 @ 24"				
					5Y 7/2 @ 32" → mix > 50%				
					2.5Y 6/3 @ 24-48"				
6	10% L	0-6"	scl wk gr	fr nonp nonss	NONE	42"	PS		PS .3
		6-36"	c med sbk	fr ss sp ss vp					
		36-42"	cl wk sbk	fr ss sp ss vp					
		42-55"	loamy sap	fr nonp nonss					
8									
9									

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

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____

COMMENTS: PROGRAM SPECIALIST Steve Hoorelbeke MET ON LOT ON 10-19-05 & DETERMINED MODERATE WAS LATERAL & PROVIDED DRAW COULD BE USED.

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.

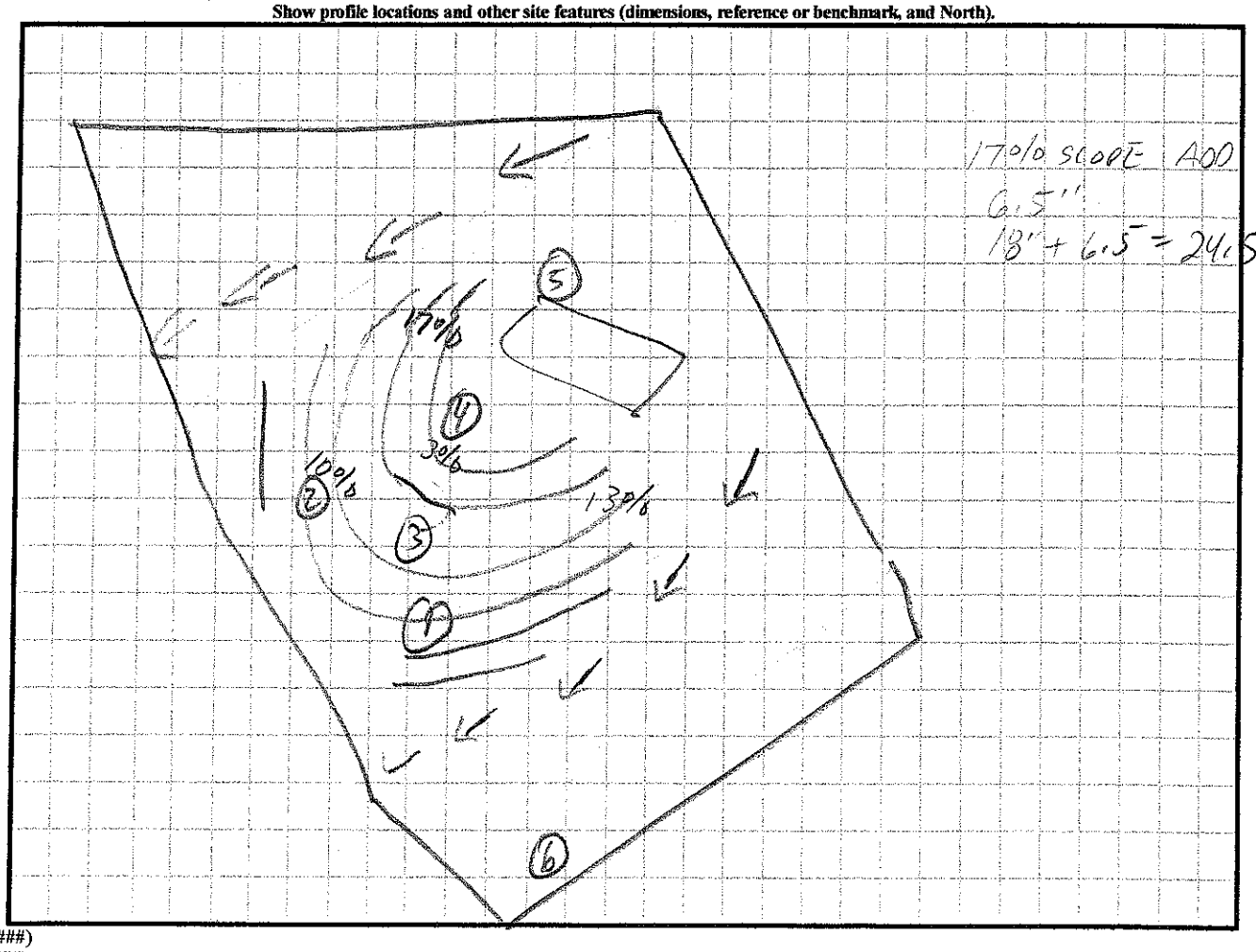
NOTES

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 (#####)

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

Sheet ___ of
PROPERTY ID #: 117391
COUNTY: 4730-54-8679

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: JEFFREY LANCASTER APPLICANT: KELLER WILLIAMS REALTY
ADDRESS: 514 Williamson Rd Mooresville NC 28117 APPLICATION DATE: 11-24-03 DATE EVALUATED: 1-8-04
PROPOSED FACILITY: 4 BR HOUSE PROPOSED DESIGN FLOW (.1949): 480 PROPERTY SIZE: 1.65 AC
LOCATION OF SITE: 21 S to Perth (R) Perth (L) Perth Woods (R) 1st Gravel Rd on Rt PROPERTY RECORDED: YES
WATER SUPPLY: ☑ Private ☐ Public ☐ Well ☐ Spring ☑ Other
EVALUATION METHOD: ☐ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

DG PITS UNE

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFIL CLASS & LTAR
1	SADDLE SLOPE / NOSE SLOPE	0-10"	scl wk gr	fr nsp nep	mn sm sat	stains			PS
		10-48"	c med abk	fi s p scep	2.5 y 6/4 @ 18" +	>			.2
			lighter red clay	@ 24"	5 y 7/4 @ 24" +	>			
					2.5 y 7/2 @ 35"				
					2.5 y 7/6 @ 24" Σ mix to 48"				
(3)		0-10"	scl wk gr	fr nsp nep	2.5 y 7/6 @ 20"				US
		10-48"	c med abk	fi s p scep	5 y 7/6 @ 24"				
			lighter red clay	@ 24"	5 y 7/2 @ 24"				
					2.5 y 6/8 @ 24"-48"			mixed 50/50	
(2)		0-10"	scl wk gr	fr nsp nep	5 y 6/6 @ 18"				US
		10-48"	c med abk	fi s p scep	5 y 7/2 @ 24"-28"				
					5 y 7/3 @ 36"-38"				
					mn sm sat stains throughout				
4		0-10"	scl wk gr	fr nsp nep	2.5 y 7/6 @ 20"				US
		10-48"	c med abk	fi s p scep	2.5 y 7/3 @ 24"				
					2.5 y 6/6 @ 24"			mix to 40" thru no mottles	
					2.5 y 7/2 @ 36"				
					2.5 y 7/3 @ 50"				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	NO	NO
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): US
EVALUATED BY: L. COOK
OTHER(S) PRESENT: ___

LEGEND

use the following standard abbreviations

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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)		SLC (Silt Loam Clay)				
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)
					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)

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
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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.

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

