DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 2 of 2
PROPERTY ID #: 4708782804
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Russell Smoot
ADDRESS: 1294 Elizabeth Ave
PROPOSED FACILITY: 3BR SFD
PROPOSED DESIGN FLOW (.1949): 360gpd
LOCATION OF SITE: Walker Valley Dr.
WATER SUPPLY: • Private • Public • Well • Spring • Other N/A
EVALUATION METHOD: • Auger Boring • Pit • Cut
APPLICATION DATE: 4-7-13
DATE EVALUATED: 5-13-13
PROPERTY SIZE: 6.93 Acres
PROPERTY RECORDED: Yes
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	1% NS	0-29	C ABK	Fr SS/SP Mod SE	+39"	39"	39"	39"	PS 0.25
		29-39	CL WABK	Fr SS/SP Mod SE					
		39"	Rock						
2	8% NS	0-9	SC SBK	Fr Mod SE	+40"	40"	40"	40"	PS 0.25
		9-32	C ABK	Fr Mod SE					
		32-40	CL MWA WABK	Fr Mod SE					
		40"	SAP/ROCK	VFi					
3	1% NS	0-31	C MICA ABK	Fr SS/SP Mod SE	+42"	42"	31"	42"	PS 0.25
		31-42	L SAP BK	Fr Mod SE					
		42	Rock	VFi					
4	8% NS	0-8	SC SBK	Fr Mod SE	+42"	42"	32"	42"	PS 0.25
		8-32	C MICA ABK	Fr Mod SE					
		32-42	SAP SL Gr	Fr Mod SE					
		42	ROCK/SAP	VFi					

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

OTHER FACTORS (.1946): N/A
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Matt Henderson
OTHER(S) PRESENT: Wesley + Ground breakers

COMMENTS: TB @ 24" on high side

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.

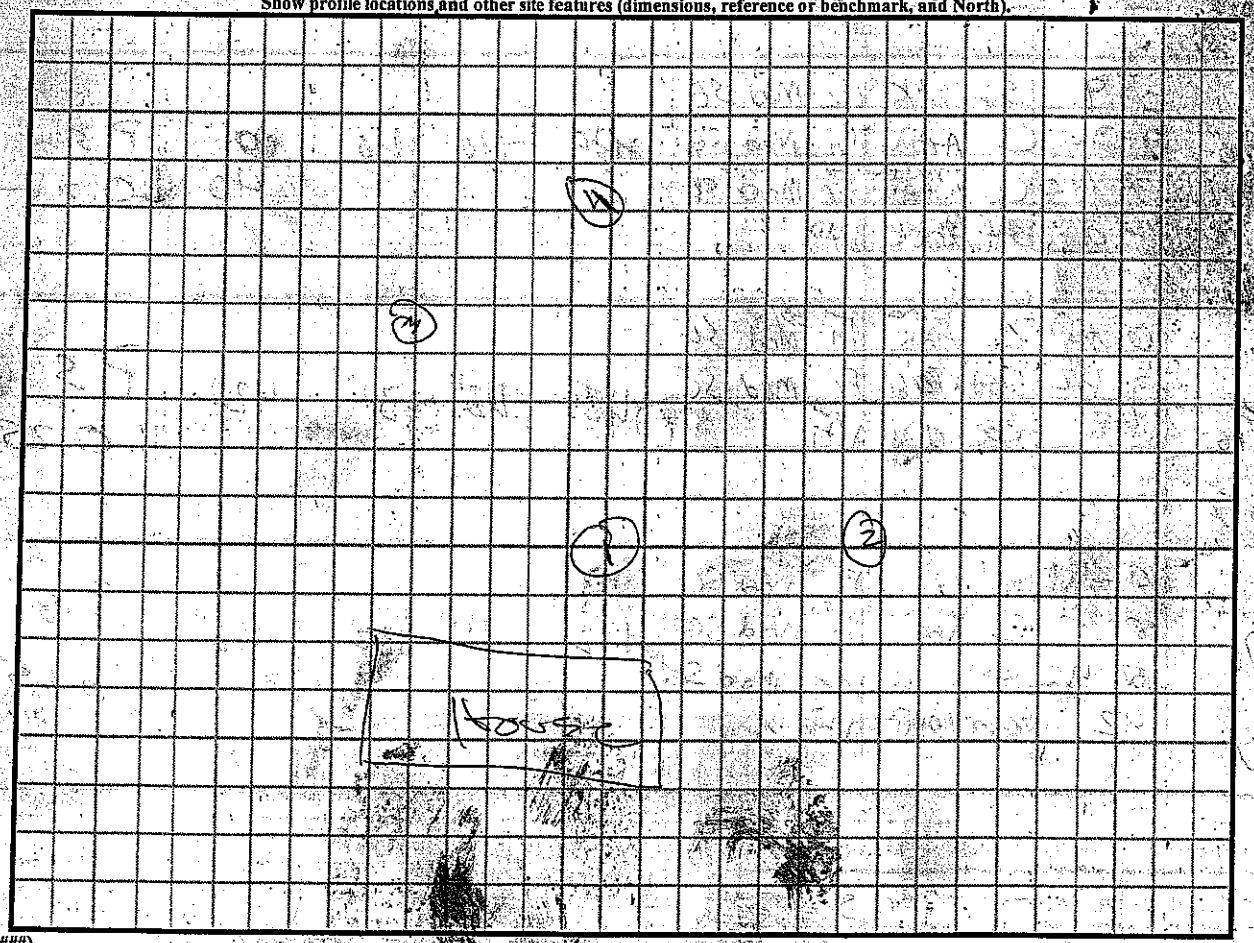
NOTES

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 (#####)

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PROPOSED DESIGN FLOW (.1949): 360gpd
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WATER SUPPLY: • Private • Public • Well • Spring • Other N/A
EVALUATION METHOD: • Auger Boring • Pit • Cut
APPLICATION DATE 4-17-13
DATE EVALUATED: 5-9-13
PROPERTY SIZE: 6.93 acres
PROPERTY RECORDED: Yes
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1	7% NS	0-22	C mica ABK	VF SS/SP Mod SE					Need Pits
		22	CL tSAP						
2	6% NS	0-25	C mica ABK	VF SS/SP Mod SE					Need Pits
		25-48	SAP						
3	8% NS	0-26	C mica ABK	F; Mod SE					Need Pits
		26-48	SAP						
4									

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Site LTAR	0.25	0.25

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SITE CLASSIFICATION (.1948): Need Pits
EVALUATED BY: Justin Henderson
OTHER(S) PRESENT: N/A

COMMENTS: N/A

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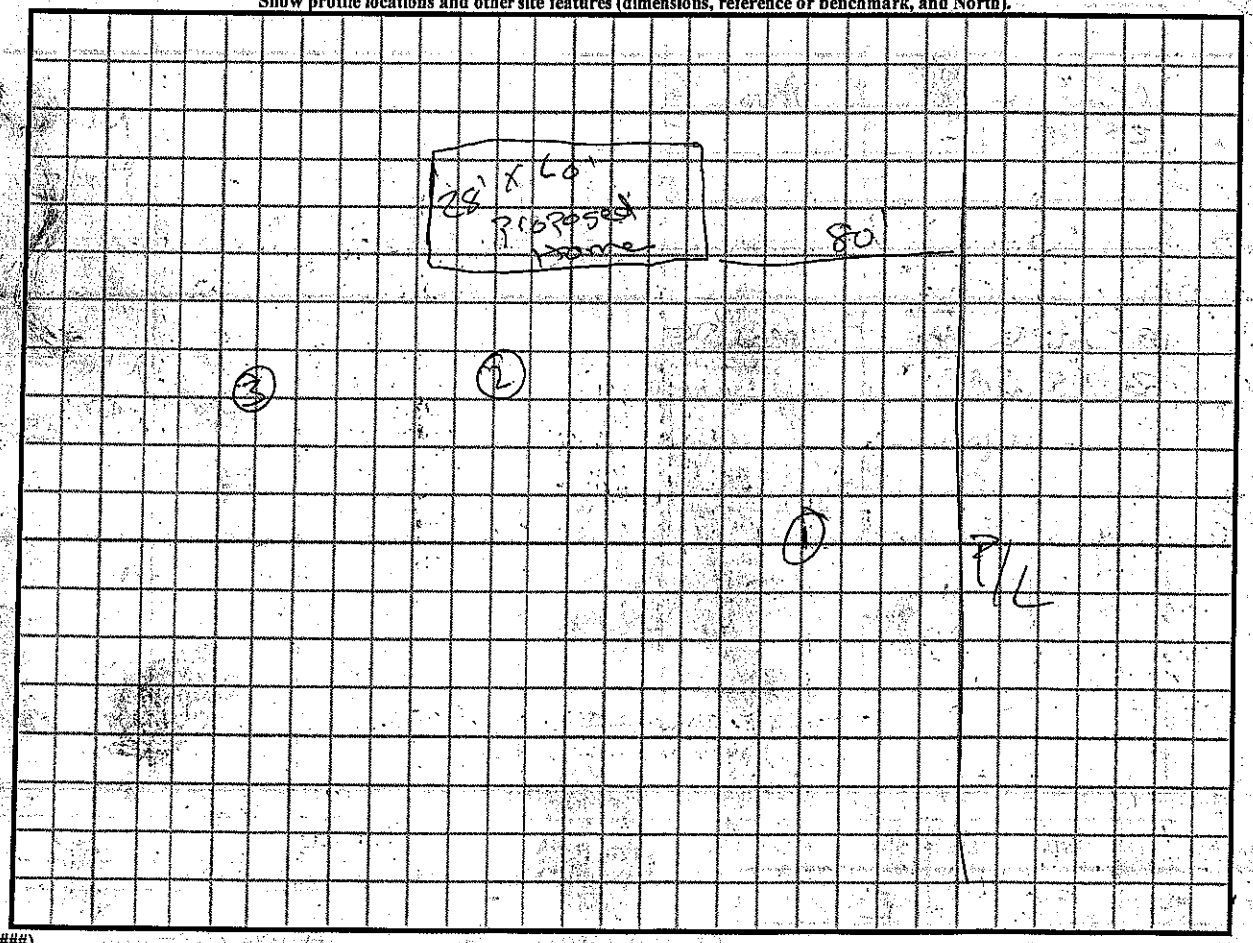
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