DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 2
PROPERTY ID #: 4746477343
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Direland Inc / Ginger Dowdle — APPLICATION DATE: 6-28-12
ADDRESS: 133 Redemption Road. — DATE EVALUATED: 7-5-12
PROPOSED FACILITY: 3 BR Residence — PROPOSED DESIGN FLOW (.1949): 360 gpd. — PROPERTY SIZE: 2.3 acres
LOCATION OF SITE: 219 Houpe Rd. Statesville — PROPERTY RECORDED: Yes
WATER SUPPLY: • Private • (Public) • Well • Spring • Other N/A
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	19% NS	0-8	SC SBK	Fr SS/SP Mod SE	+48"	+48"	+48"	+48"	PS 0.25
		8-37	C ABK mica	Fr SS/SP Mod SE					
		37-48	CL WABK mica	Fr SS Mod SE					
2	19% NS	0-7	SL SBK	Fr SS/SP Mod SE	46"	46"	46"	46"	PS 0.25
		7-28	C ABK mica	Fr SS/SP Mod SE					
		28-46	CL WABK mica	Fr SS/SP Mod SE					
		46"	wetness						
3	10% NS	0-32	C ABK mica	Fr SS/SP Mod SE	+38"	38"	+38"	38"	PS 0.25
		32-38	CL WABK mica	Fr SS/SP Mod SE					
		38"	RCS						
4	12.5% NS	0-10	SC SBK	Fr SS/SP Mod SE	+48"	+48"	+48"	+48"	PS 0.25
		10-48	C ABK mica	Fr SS/SP Mod SE					

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: [illegible]
OTHER(S) PRESENT: Steve Dowdle

COMMENTS: N/A — Repair trench bottoms no more than 26" deep

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope) CV (Convex Slope) D (Drainage Way) DS (Debris Slump) FP (Flood Plain) FS (Foot Slope) H (Head Slope) L (Linear Slope) N (Nose Slope) R (Ridge) S (Shoulder Slope) T (Terrace)	I	S (Sand) LS (Loamy Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive) SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain) M (Massive) CR (Crumb) GR (Granular) SBK (Subangular Blocky) ABK (Angular Blocky) PL (Platy) PR (Prismatic)
	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3		
	III	Si (Silt) SiCL (Silty Clay Loam) CL (Clay Loam) SCL (Sandy Clay Loam) SiL (Silt Loam)	0.6 - 0.3	0.3 - 0.15		
	IV	SC (Sandy Clay) SiC (Silty Clay) C (Clay)	0.4 - 0.1	0.2 - 0.05		
		O (Organic)	None	None		

MOIST	WET
VFR (Very Friable)	NS (Non-sticky)
FR (Friable)	SS (Slightly Sticky)
FI (Firm)	S (Sticky)
VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
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.

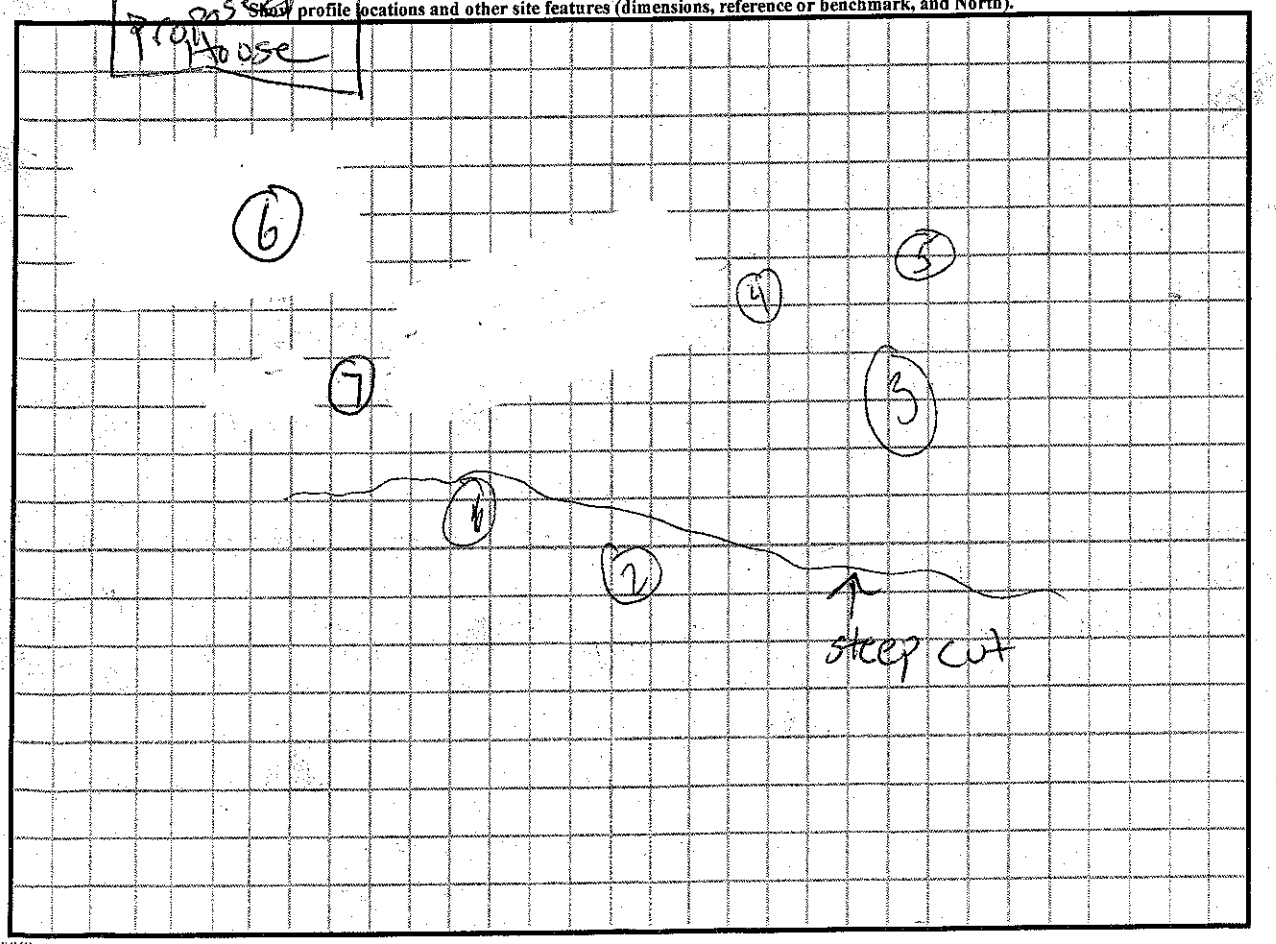
NOTES

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).



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

DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 2 of 2
PROPERTY ID #: 4746477343
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

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ADDRESS: 133 Redemption Rd. Statesville
PROPOSED FACILITY: 3BR Residence PROPOSED DESIGN FLOW (.1949): 360gpd.
LOCATION OF SITE: 219 Houpe Rd. Statesville
WATER SUPPLY: • Private • (Public) • Well • Spring • Other N/A
EVALUATION METHOD: • Auger Boring • (Pit) • Cut

APPLICATION DATE 6-28-12
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PROPERTY RECORDED: Yes
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5	10% NS	0-7	SC SBK	FR SS/SP Mod SE	+48"	+48"	+48"	+48"	PS 0.25
		7-32	C ABK mica	FI SS/SP Mod SE					
		32+48	SCL WABK mica	Fr Mod SE					
6	13% slight NS	0-37	C ABK	FI SS/SP Mod SE	+48"	+48"	+48"	+48"	PS 0.25
		37-46	CL WABK mica	Fr SS/SP Mod SE					
7	11% slight NS	0-34	C ABK	FI SS/SP Mod SE	+48"	+48"	+48"	+48"	PS 0.25
		34-48	CL WABK mica	Fr Mod SE					

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: Justin Henderson
OTHER(S) PRESENT: Steve Bowdle

COMMENTS: N/A

LEGEND

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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)
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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)
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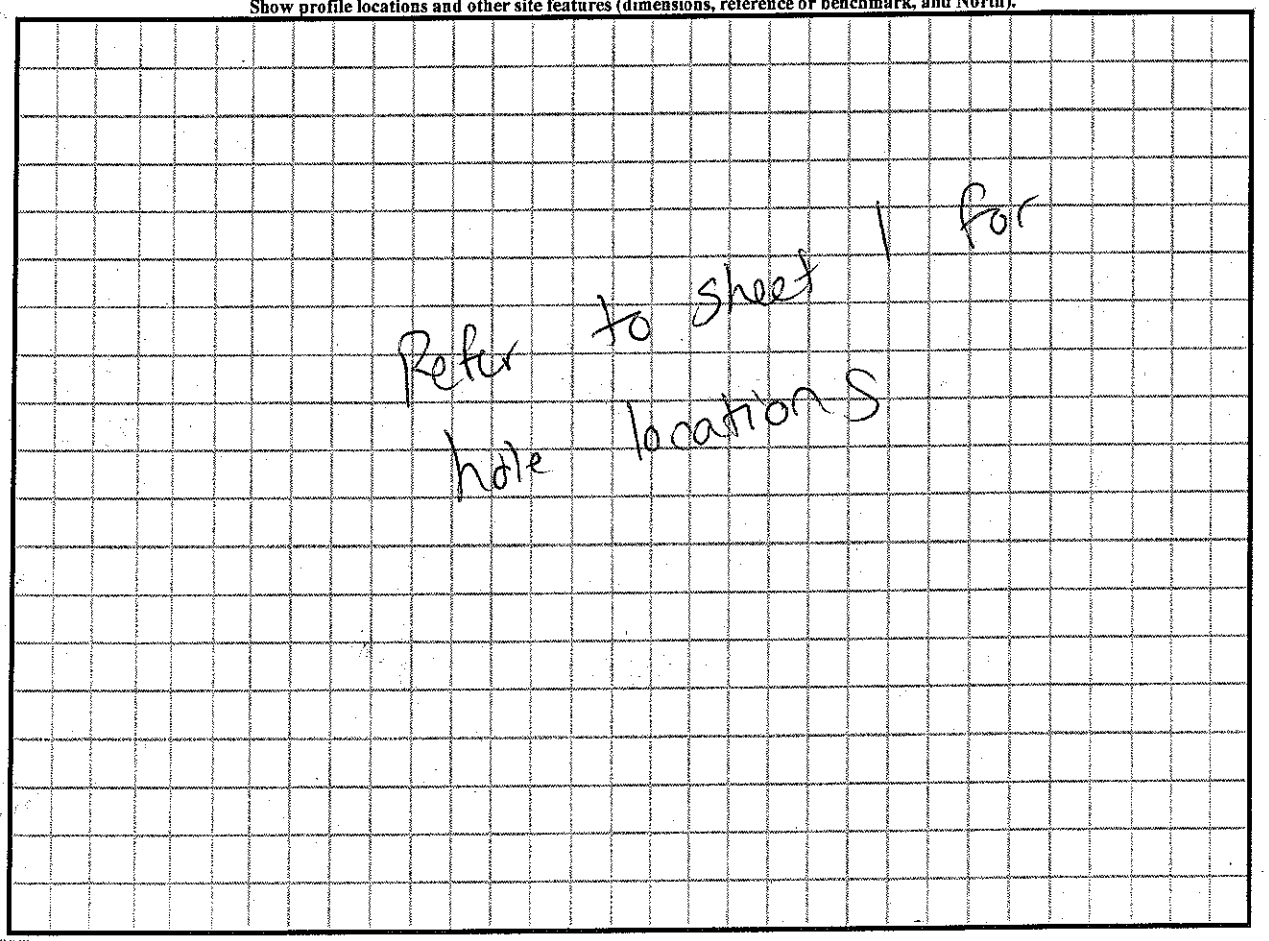
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