DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 3
PROPERTY ID #: 8090
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Peter Rosenkrans
APPLICATION DATE
ADDRESS: 135 Olympia Dr.
DATE EVALUATED: 5/7/15
PROPOSED FACILITY: SFR
PROPOSED DESIGN FLOW (.1949): 600 GPD
PROPERTY SIZE: .889 ACRE
LOCATION OF SITE: 135 Olympia Dr. Mooresville NC
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
A1	LL 8%	0-6	Gravel		N/A	48"	C-M SAP Incl 24"-48"	N/A	.35
		6-18	RCL, SBK	FR, SS, SP					
		18-48	RCL, SBK/WSBK	" " "					
A2	LL 10%	0-12	RCL, SBK	FR, SS, SP	N/A	46"	C-M SAP Incl 12"-48" Mica 24"-30"	N/A	.35
		12-46	RCL, SBK/WSBK	" " "					
		46-48	Mass SAP SL	VFR					
A3	LL 5%	0-12	RL, SBK	FR, SS, SP	N/A	42"	C-M SAP Incl 12-42 Mica	N/A	.35
		12-42	RCL, SBK/WSBK	" " "					
		42-48	Mass SL SAP	VFR					
A4	LL	0-6	Fill		N/A	48"	C-M SAP Incl 24"-48" Field Incl	N/A	.35
		6-12	RCL, SBK	FR, SS, SP					
		12-48	RCL, SBK/WSBK	FR/VFR, SS, SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Approved	Approved
Site LTAR	.35	.35

OTHER FACTORS (.1946): N/A
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Shane Cashion
OTHER(S) PRESENT:

COMMENTS:

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.

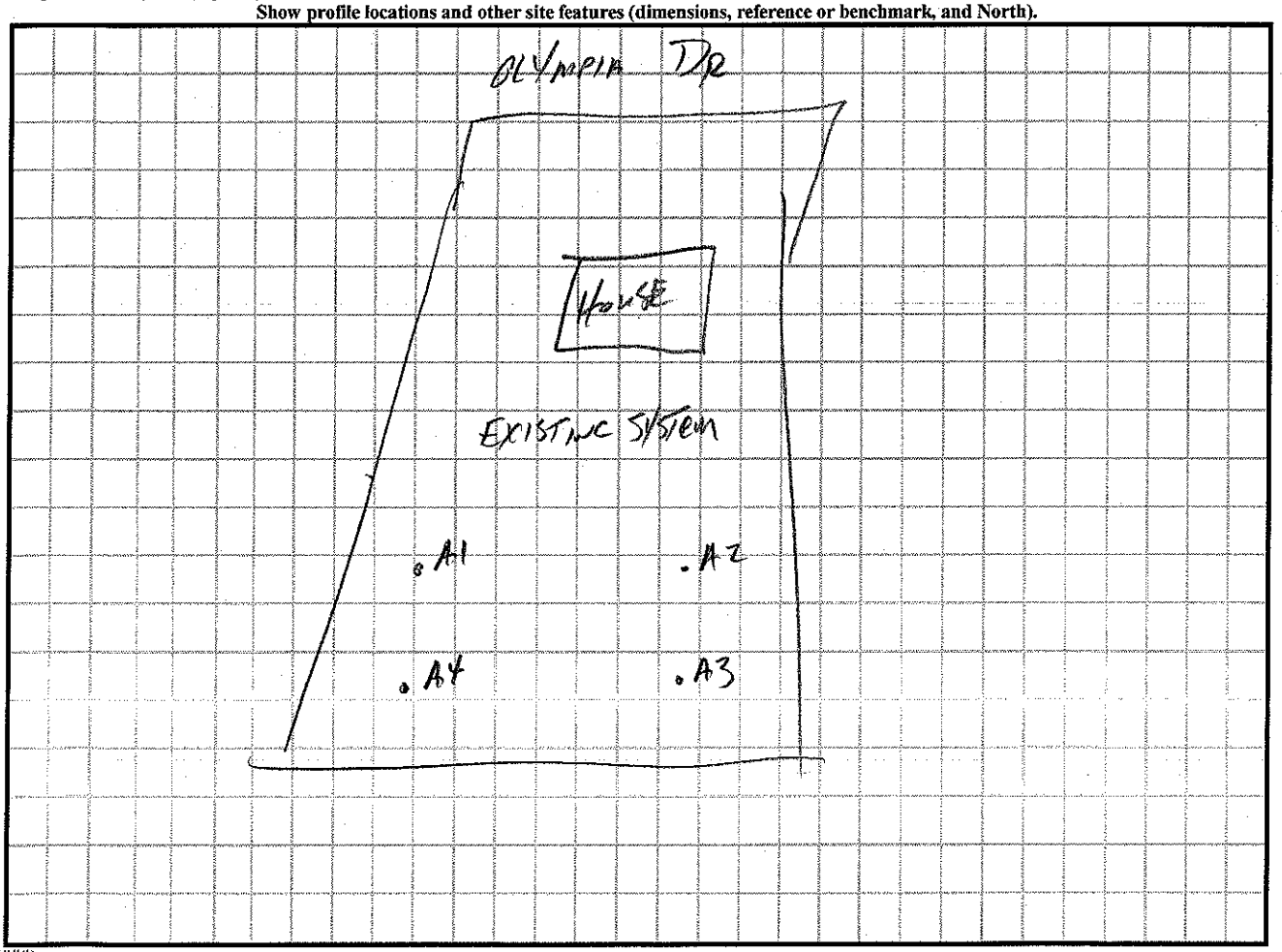
NOTES

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.

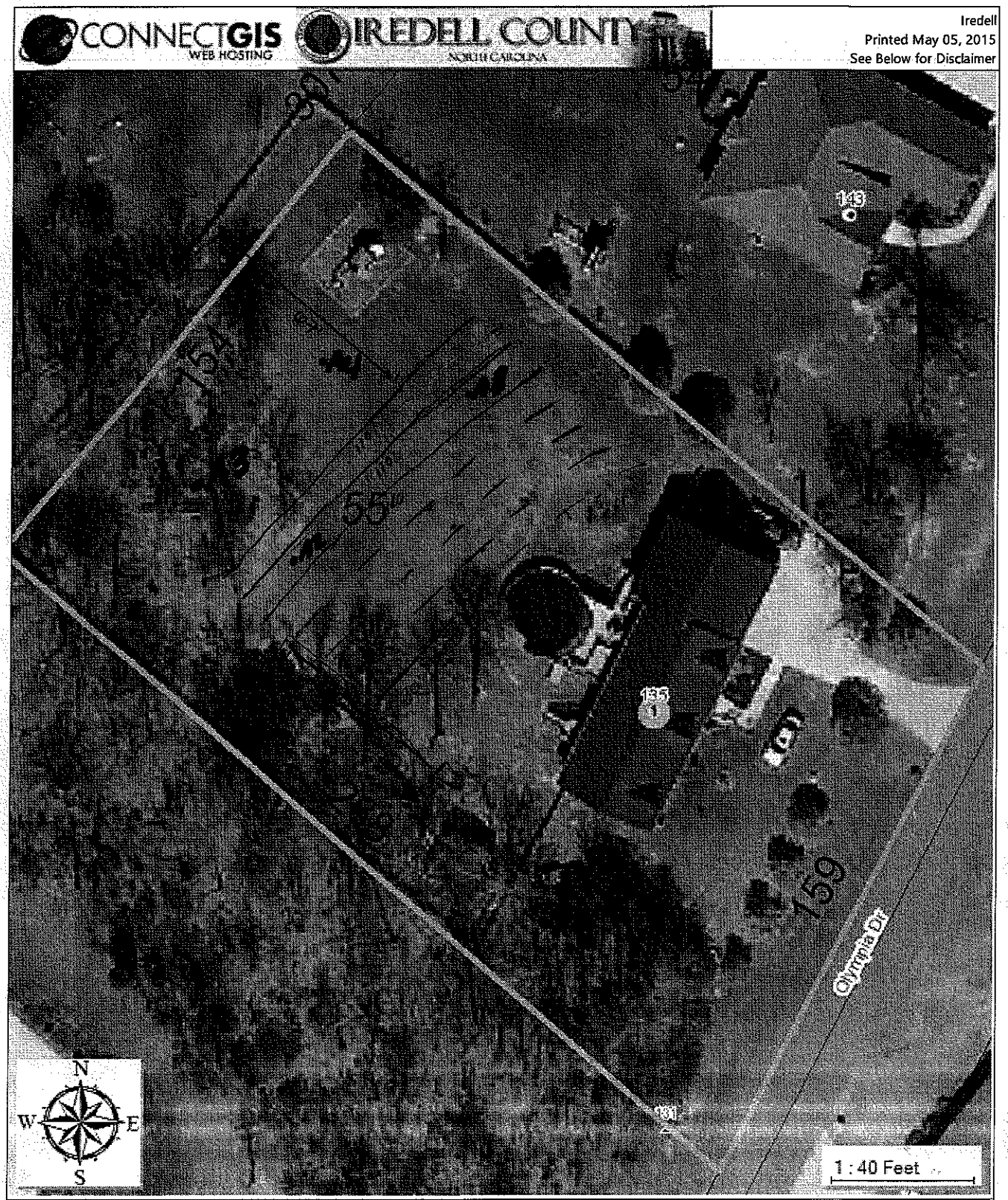
Long-term Acceptance Rate (LTAR): gal/day/ft^2

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



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

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30' EXISTING 1ST ZONE

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185' PANEL REPAIR @ .35 LTAR

360 ÷ .3 ÷ 3 = 400

+ 303 GAL/DAY

216' CHAMBERS

70' = 63 GAL.

2 @ 110' CHAMBERS 5 BR