DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 3
PROPERTY ID #: 8097
COUNTY: IREDELL

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: BANK OF NC / MICHAEL RYAN HOMES — APPLICATION DATE 12/11/15
ADDRESS: MALLARD CREEK / CHARLOTTE NC — DATE EVALUATED: 12/16/15
PROPOSED FACILITY: SFR — PROPOSED DESIGN FLOW (.1949): 360 GPD — PROPERTY SIZE: .530 ACRES
LOCATION OF SITE: 157 MOUNTAIN ISLAND DR. STATESVILLE 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	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
A1	LL 4%	0-10	FILL		/	48"	F-C-M SAP INCL 23"-38"	/	.3
		10-24	RBC, SBK/ABK	FR, SS, SP					
		24-38	RCL, SBK	" " "					
		38-48	MASS SAP	" " "					
A2	LL 5%	0-3	FILL		/	48"	C-M SAP INCL 11"-48"	/	.3
		3-10	RC, SBK/ABK	FR, SS, SP					
		10-48	RCL, SBK/WSBK	" " "					
A3	LL 5%	0-3	FILL		/	37"	C-M SAP INCL 22"-37"	/	.3
		3-20	RC, SBK/WSBK	FR, SS, SP					
		20-37	RCL, SBK	" " "					
		37-48	MASS SAP	" " "					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	APPROVED	APPROVED
Site LTAR	.3	.3

OTHER FACTORS (.1946): —
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: SC
OTHER(S) PRESENT: MIKE BLACKMON

COMMENTS: EVALUATED B/C OF DATA ON EXISTING REPORT.

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.

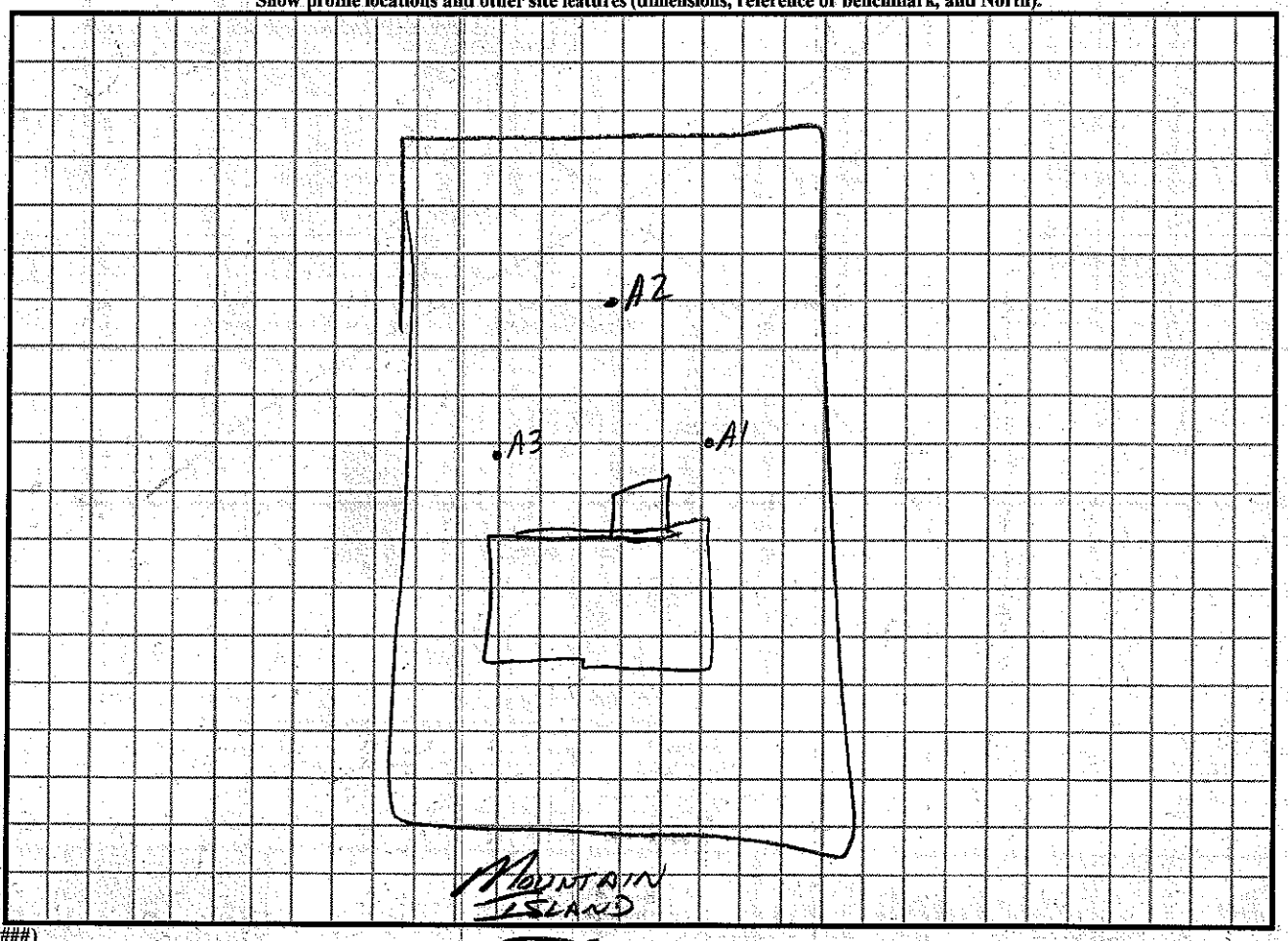
NOTES

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)

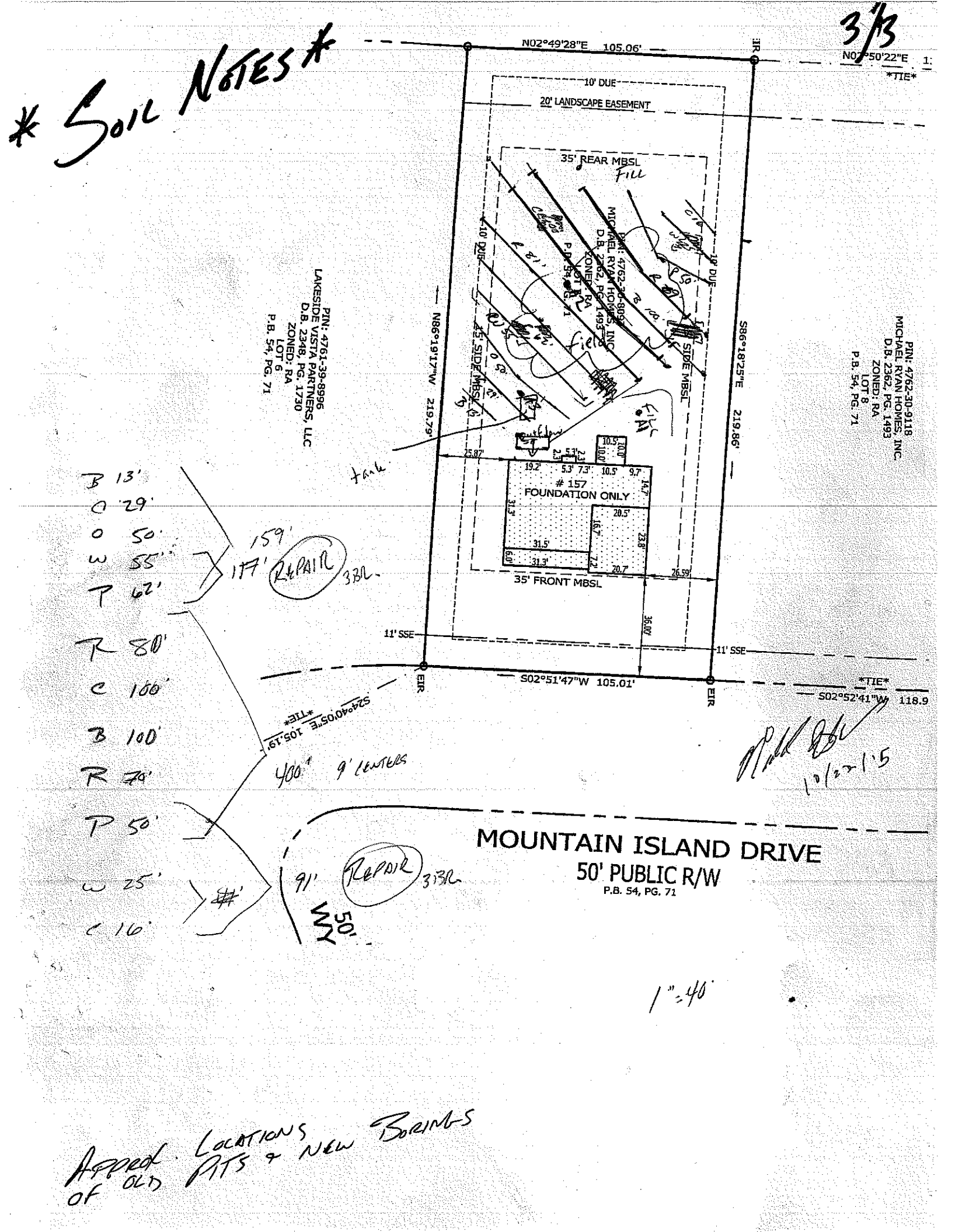
Evaluation of saprolite shall be by pits.

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

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



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


* Soil Notes *
3/13
N02°49'28"E 105.06'
N02°50'22"E
TIE
10' DUE
20' LANDSCAPE EASEMENT
35' REAR MBSL
Fill
10' DUE
10' DUE
PIN: 4762-30-9093
MICHAEL RYAN HOMES, INC.
D.B. 2362, PG. 1493
ZONED: RA
LOT 7
P.B. 54, PG. 71
N86°19'17"W 219.79'
S86°18'25"E 219.86'
SIDE MBSL
25' SIDE MBSL
PIN: 4761-39-8996
LAKESIDE VISTA PARTNERS, LLC
D.B. 2348, PG. 1730
ZONED: RA
LOT 6
P.B. 54, PG. 71
PIN: 4762-30-9118
MICHAEL RYAN HOMES, INC.
D.B. 2362, PG. 1493
ZONED: RA
LOT 8
P.B. 54, PG. 71
tank
157
FOUNDATION ONLY
35' FRONT MBSL
11' SSE
11' SSE
EIR
EIR
EIR
S02°51'47"W 105.01'
TIE
S02°52'41"W 118.9
B 13'
C 29'
O 50'
W 55'
T 62'
159'
177'
REPAIR
3BR.
R 80'
C 100'
B 100'
R 70'
S29°40'05"E 105.19'
TIE
400' 9' CENTERS
P 50'
W 25'
C 10'
91'
REPAIR
3BR
50' WAY
MOUNTAIN ISLAND DRIVE
50' PUBLIC R/W
P.B. 54, PG. 71
10/27/15
1" = 40'
Approx. Locations of old Pits & New Borings