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

SHEET: 1 of 2
PROPERTY ID #: 120083
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: MKM Builders
ADDRESS: 17014 Winged Thistle Court Davidson, NC 28036
PROPOSED FACILITY: Single Family PROPOSED DESIGN FLOW (.1949): 360 GPD
LOCATION OF SITE: 210 Sundance Circle – Deer Crossing Lot 77

APPLICATION DATE: 2/2/06
DATE EVALUATED: 2/13/06
PROPERTY SIZE: .46 Acres
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)		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	
1	S VL 5%	0-30	M SBK C	FR SS/SP SEXP		30"			U 0
		30-36	L SAP						
		36	ROCK						
2	S VL 8%	0-18	M SBK SCL	VFR SS/SP SEXP		48"			PS .3
		18-48	M SBK C	FR SS/SP SEXP					
3	S VL 7%	0-6	M SBK SCL	VFR SS/SP SEXP	ROCK INC 24"-50" <50% <3" THICK NO DRAINAGE MOTTLES	32"	S		PS .3
		6-32	M SBK C	FR SS/SP SEXP					
		32-50	M GR L SAP	VFR SS/NP SEXP					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	S	S
System Type(s)	G 25% RED	LP PPBPS
Site LTAR	.3	.3

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

COMMENTS: Profiles 1&2 are auger borings. Profile 3 is a pit evaluation.

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.

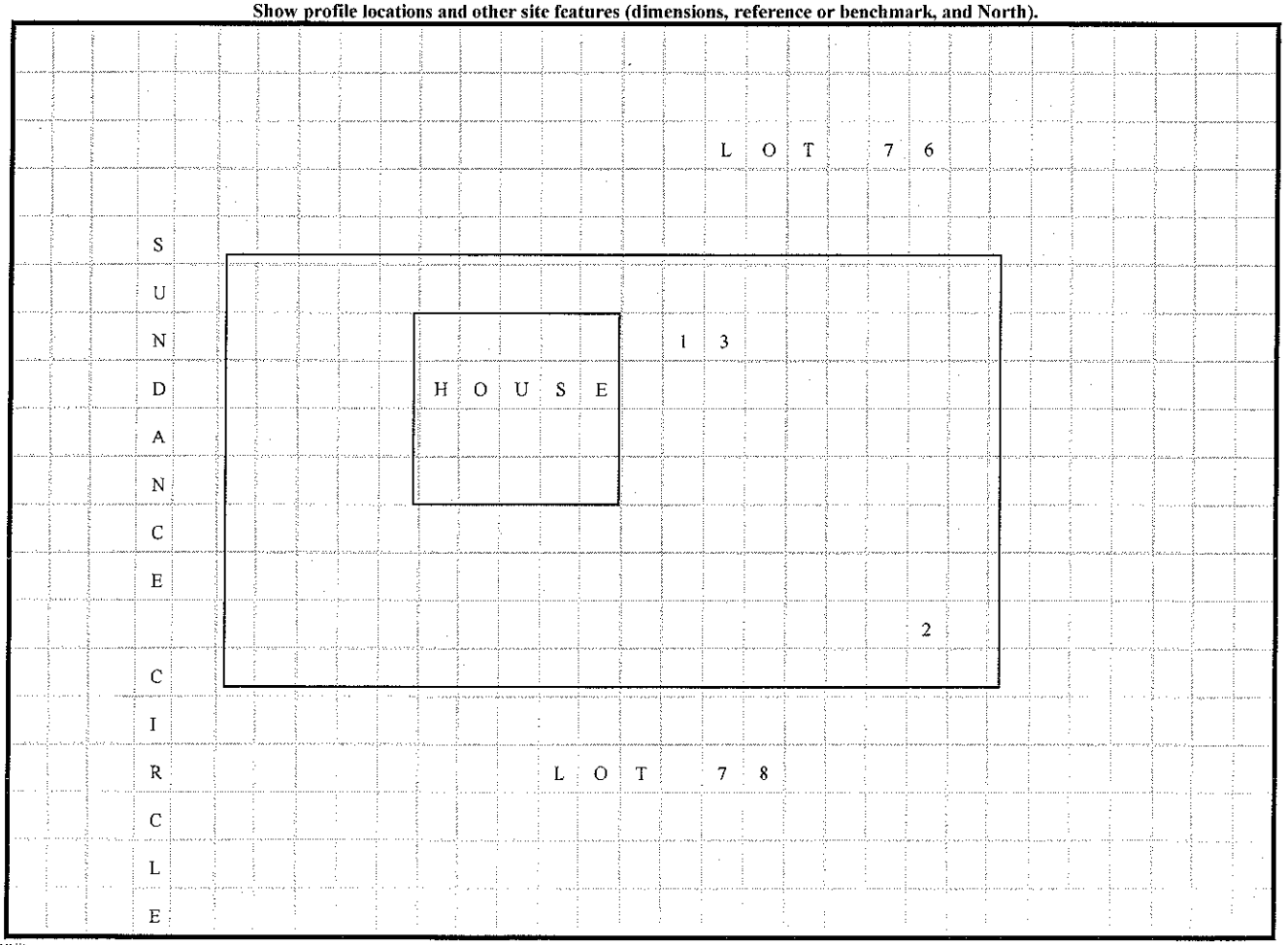
NOTES

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)

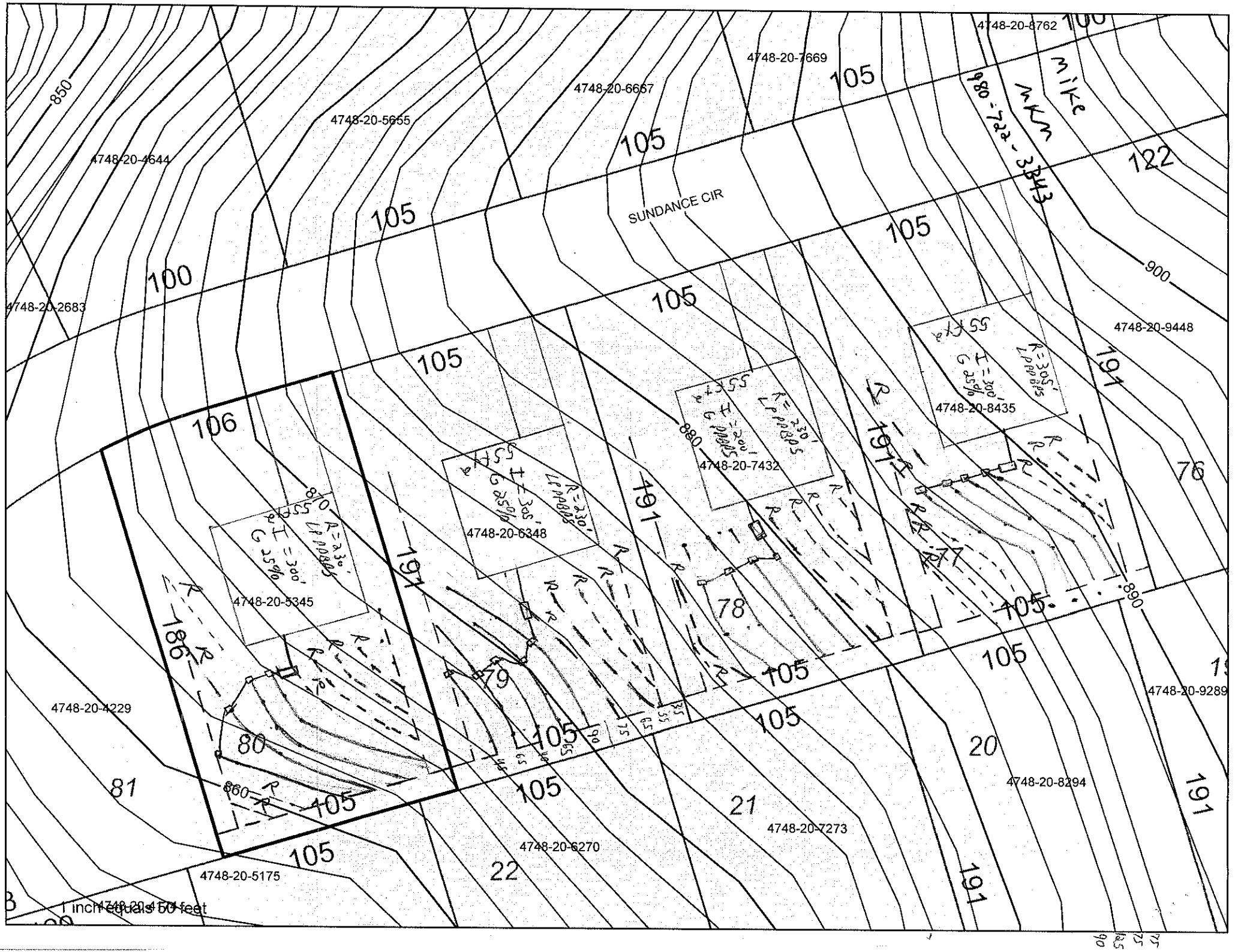
Evaluation of saprolite shall be by pits.

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

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



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


4748-20-8762
4748-20-7669
4748-20-6667
4748-20-5655
4748-20-4644
4748-20-2683
SUNDANCE CIR
4748-20-9448
4748-20-8435
4748-20-7432
4748-20-6348
4748-20-5345
4748-20-4229
4748-20-5175
4748-20-6270
4748-20-7273
4748-20-8294
4748-20-9289
1 inch equals 50 feet