DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 2
PROPERTY ID #: 4186183463
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
(Complete all fields in full)

OWNER: Jeremiah McMahan — APPLICATION DATE 12-31-16
ADDRESS: 142 Fairview Ln — DATE EVALUATED: 2-4-16
PROPOSED FACILITY: SFD — PROPOSED DESIGN FLOW (.1949): 360 gpd — PROPERTY SIZE: 1.46 acres
LOCATION OF SITE: 183 Jessica Rd. — 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	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	12% L	0-6	SCL SBK	Fr Mod SE	+60"	36"	36" wavy boundary	+60"	PS 0.275 TB @ 36"
		6-20	C ABK	Fr Mod SE					
		20-36	SAP SCL Inc ABK	Fr Mod SE					
		36-60	SAP SL M	Fr smear					
		wavy SAP boundary	some SiL SAP present also						
2	12% FS	0-7	C	Fr	Chroma 2 @ 8"	—	—	—	US
		7-36	Cl SAP M	Fr					
3	12% LSS	0-5	SCL SBK	Fr Mod SE	14"	—	—	—	US
		5-24	BC ABK	Fr					
		24-42	SAP L/Cl						
			Chroma 2 @ 14"						
			possible Hydrochromic models						
4	16% FS	0-8	SCL G.	Fr Mod SE	+48"	+48"	+48"	+48"	PS 0.275
		8-32	C ABK	Fr Mod SE					
		32-48	BC SAP Inc WABK	Fr Mod SE					

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

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

COMMENTS: TB @ 36"

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

DEPARTMENT OF HEALTH AND HUMAN SERVICES
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ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 4561183663
DATE OF EVALUATION: 2-4-16
COUNTY: Iredell

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
PIT 5	7 % L	0-7	SCL SBIC	Fr Mod SE	>48"	>48"	>48"	>48"	PS 0.25
		7-24	C ABK	Fr Mod SE					
		24-48	BC w ABIC	Fr Mod SE					
PIT 6	10% HS	0-4	SCL SBIC	Fr Mod SE	>48"	>48"	>48"	>48"	PS 0.25
		4-24	C ABK	Fr Mod SE					
		24-48	BC w ABK	Fr Mod SE					

COMMENTS:

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	SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain) M (Massive) CR (Crumb) GR (Granular) SBK (Subangular Bloc 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.

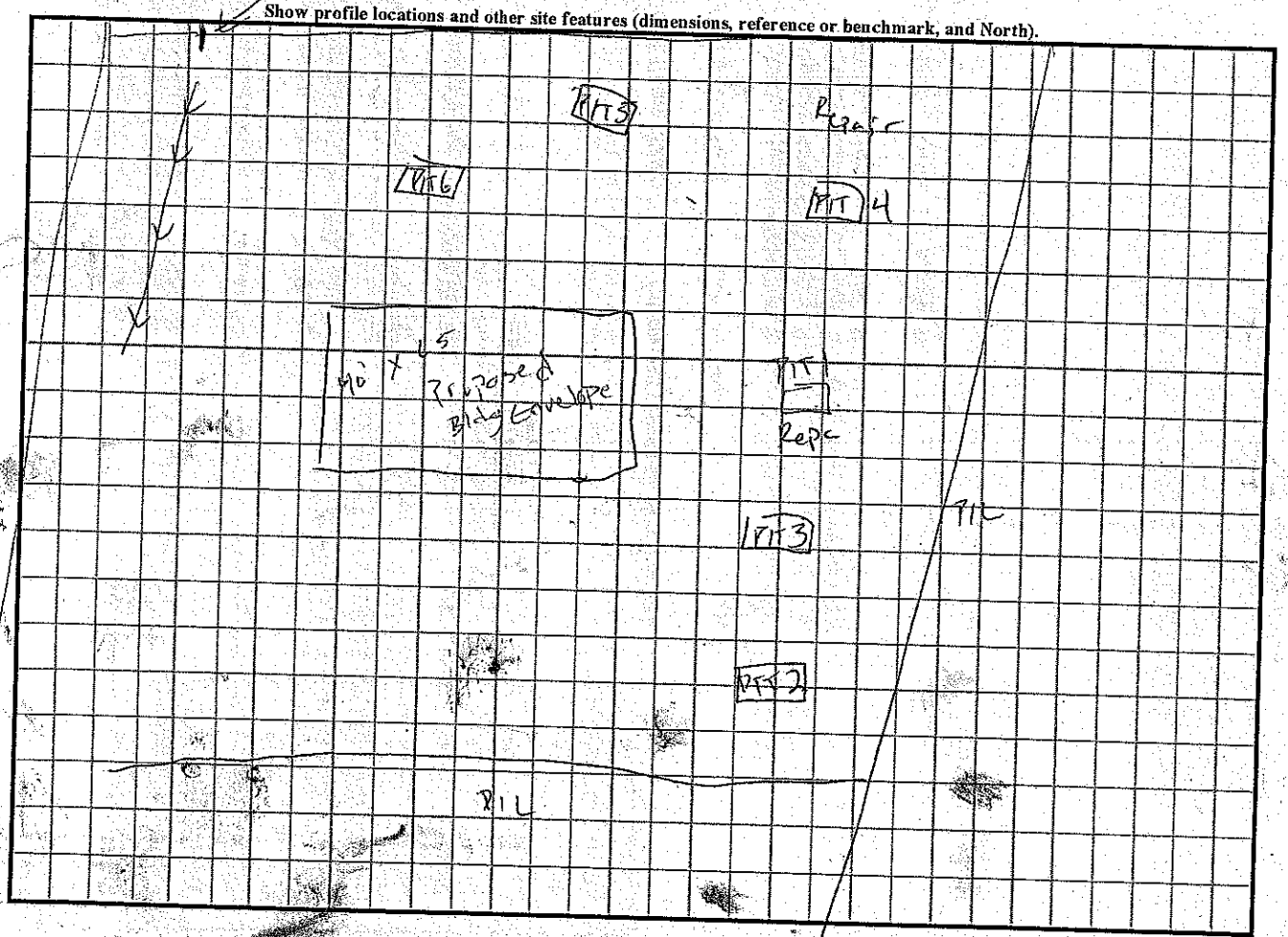
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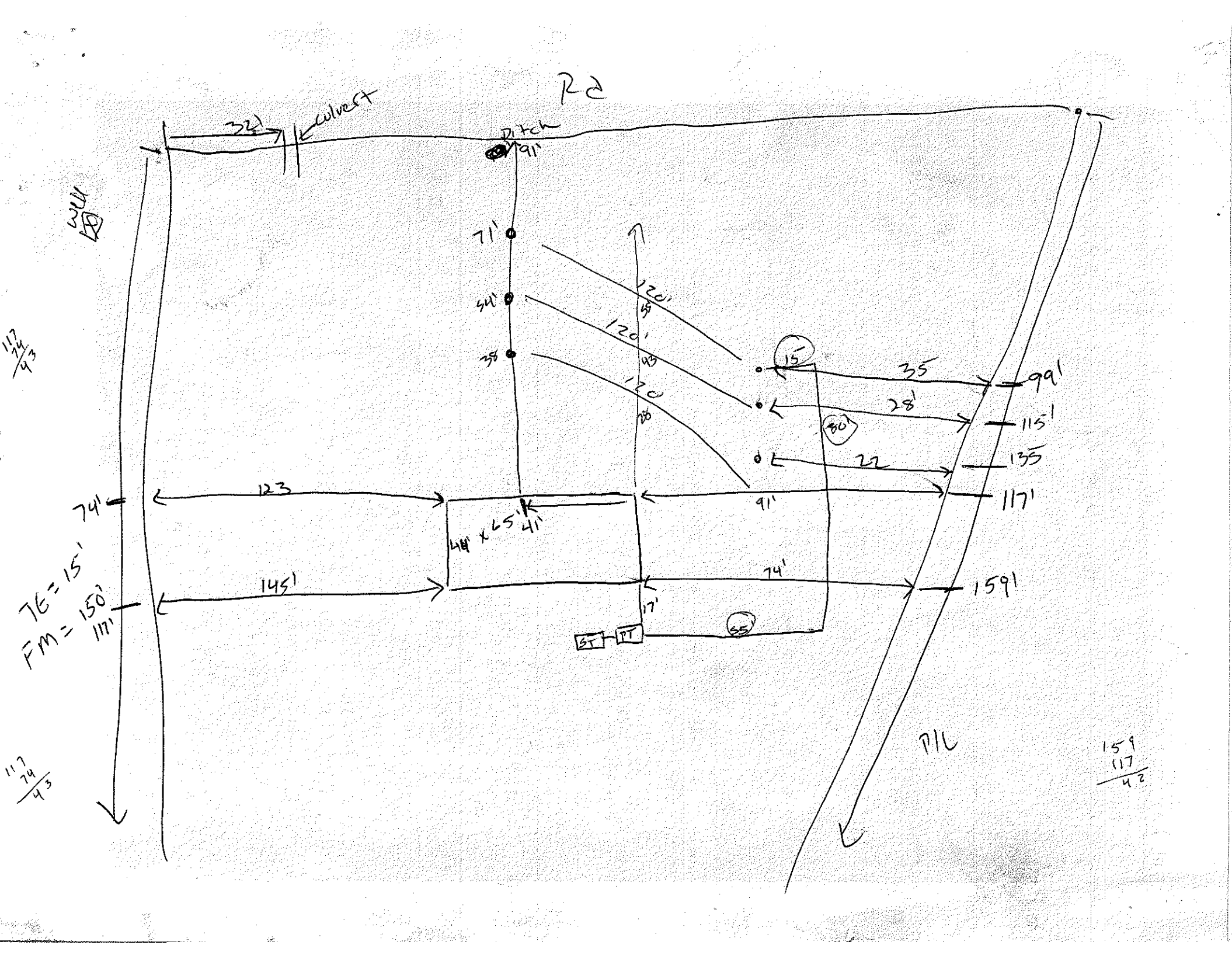
HORIZON DEPTH — In inches below natural soil surface
DEPTH OF FILL — In inches from land surface
RESTRICTIVE HORIZON — Thickness and depth from land surface
SAPROLITE — S(suitable) or U(unsuitable)
SOIL WETNESS — Inches from land surface to free water or inches from land surface to soil colors with chroma 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).




Rd
culvert
32'
Ditch
91'
well
71'
54'
38'
120'
55'
120'
45'
120'
25'
15'
35
91
28'
115'
80'
22
135
91'
117'
123
74'
44' x 45' 41'
74'
145'
159'
17'
ST
PT
55
TC = 15'
FM = 150'
117'
P/L
117
74
43
117
74
43
159
117
42