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

Sheet 1 of 1
PROPERTY ID #: 130944
COUNTY: IREDELL

# SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

OWNER: Robert Brown APPLICATION DATE 8/30/05
ADDRESS: 1042 N MAIN ST MOORESVILLE, NC 28115 DATE EVALUATED: 9/13/05
PROPOSED FACILITY: SF PROPOSED DESIGN FLOW (.1949): 360 GPD PROPERTY SIZE: .46 ACRES
LOCATION OF SITE: SYLLMEADOW LN 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 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0-4 | m SBK scl | VFr SS/SP SeXP | VERY CLOSE TO 50% SAP FROM 30"-43" | 43" | | | PS .3 |
| | | 4-43 | m SBK c | Fr SS/SP SeXP | | | | | |
| | | 43+ | C+SAP | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 2 | | 0-12 | VF SBK scl | VFr SS/SP SeXP | CHROMA 3-5 30"+ Mn inc | 34"+ | | | PS .25 |
| | | 12-34 | m SBK c | Fr SS/SP SeXP | | | | | |
| | | 34 | Hit a Rock | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 3 | | 0-15 | m SBK scl | VFr SS/SP SeXP | CHROMA 5 @ 36"+ Mn inc | 48" | | | PS .3 |
| | | 15-30 | m SBK sc | Fr SS/SP SeXP | | | | | |
| | | 30-48 | m SBK c | Fr SS/SP SeXP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 4 | | | | | | | | | |
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| | | | | | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | S | S |
| System Type(s) | G PPBPS | |
| Site LTAR | .3 | |

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

COMMENTS:

# LEGEND

***use the following standard abbreviations***

| LANDSCAPE POSITION | GROUP | SOIL TEXTURE | CONVENTIONAL .1955 LTAR* | LPP .1957 LTAR* |
|---|---|---|---|---|
| CC (Concave Slope)<br>CV (Convex Slope)<br>D (Drainage Way)<br>DS (Debris Slump)<br>FP (Flood Plain)<br>FS (Foot Slope)<br>H (Head Slope)<br>L (Linear Slope)<br>N (Nose Slope)<br>R (Ridge)<br>S (Shoulder Slope)<br>T (Terrace) | I | S (Sand)<br>LS (Loamy Sand) | 1.2 - 0.8 | 0.6 - 0.4 |
| | II | SL (Sandy Loam)<br>L (Loam) | 0.8 - 0.6 | 0.4 - 0.3 |
| | III | SCL (Sandy Clay Loam)<br>SiL (Silt Loam)<br>CL (Clay Loam)<br>SiCL (Silty Clay Loam)<br>Si (Silt) | 0.6 - 0.3 | 0.3 - 0.15 |
| | IV | SC (Sandy Clay)<br>SiC (Silty Clay)<br>C (Clay) | 0.4 - 0.1 | 0.2 - 0.05 |
| | | O (Organic) | None | |

| MINERALOGY/ CONSISTENCE | STRUCTURE |
|---|---|
| NEXP (Non-expansive)<br>SEXP (Slightly Expansive)<br>EXP (Expansive) | G (Single Grain)<br>M (Massive)<br>CR (Crumb)<br>GR (Granular)<br>SBK (Subangular Blocky)<br>ABK (Angular Blocky)<br>PL (Platy)<br>PR (Prismatic) |

| MOIST | WET |
|---|---|
| VFR (Very Friable)<br>FR (Friable)<br>FI (Firm)<br>VFI (Very Firm v. Very Sticky)<br>EFI (Extremely Firm) | NS (Non-sticky)<br>SS (Slightly Sticky)<br>S (Sticky)<br>VS (Very Sticky)<br>NP (Non-plastic)<br>SP (Slightly Plastic)<br>P (Plastic)<br>VP (Very Plastic) |

***Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.**

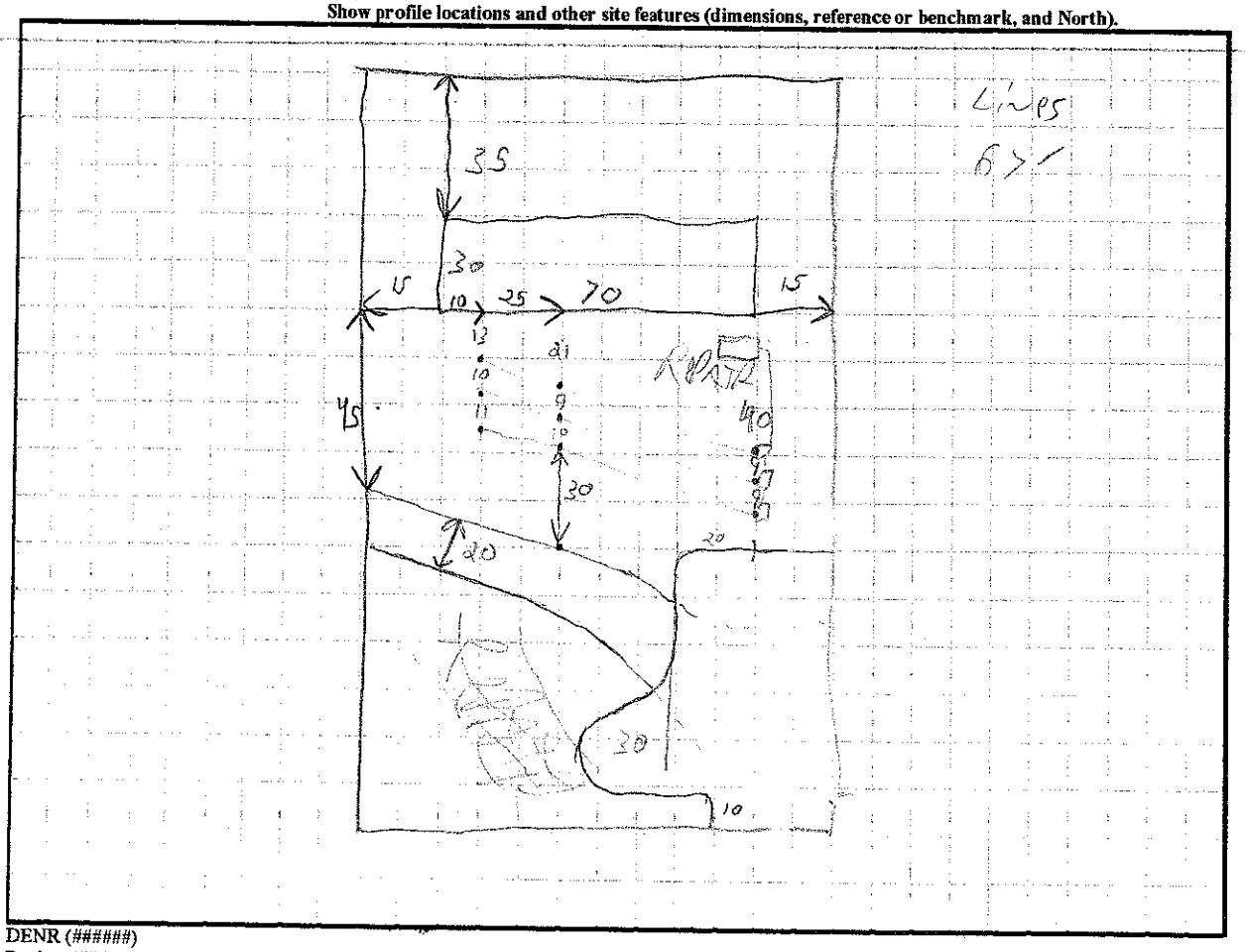
***NOTES***

| | |
|---|---|
| *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 (#####)