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

Sheet 1 of 2
PROPERTY ID #:
COUNTY: IREDELL

# SOIL/SITE EVALUATION
## for ON-SITE WASTEWATER SYSTEM

OWNER: DELBERT & LINDA SECHRIST APPLICATION DATE 8/18/05
ADDRESS: DATE EVALUATED: 9/14/05
PROPOSED FACILITY: SF PROPOSED DESIGN FLOW (.1949): 360 GPD PROPERTY SIZE: 1.61 ACRES
LOCATION OF SITE: 206 RAILWAY DR PROPERTY RECORDED: 1997
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 | F<br>LC<br>6% | 0-15 | W SBK SCL | VFR SS/SP SPXP | CHROMA 4-5 6"+ | 48" | | | PS<br>.25 |
| | | 15-36 | M SBK SC | VFR SS/SP SPXP | CHROMA 2@45" 1@48" | | | | |
| | | 36-48 | M SBK C | FR SS/SP SPXP | | | | | |
| 2 | SH<br>LL<br>5% | 0-12 | M FILL | | | 12"-32" | | | 4<br>Ø |
| | | 12-32 | W SBK SCL | VFR SS/SP SPXP | | | | | |
| | | 32+ | MN VEIN | | | | | | |
| 3 | F<br>LL<br>3% | 0-10 | M SBK SL | FR SS/SP SPXP | CHROMA 2@4"+ | 15" | | | 4<br>Ø |
| | | 10-15 | SC + SAP | | | | | | |
| | | 15+ | ROCK | | | | | | |
| 4 | F<br>LL<br>5% | 0-12 | M SBK SCL | VFR SS/SP SPXP | CHROMA 2@13" 1@33" | 33"+ | | | VI<br>Ø |
| | | 13-33+ | M SBK C | FR SS/SP SPXP | | | | | |

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

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

COMMENTS: S.40 PS BY USE OF INTERCEPTOR DRAIN FOR INITIAL AND REPAIR

# 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 | SCL (Sandy Clay Loam) | 0.6 - 0.3 | 0.3 - 0.15 | | PL (Platy) |
| L (Linear Slope) | | SiL (Silt Loam) | | | | PR (Prismatic) |
| N (Nose Slope) | | CL (Clay Loam) | | | | |
| R (Ridge) | | SiCL (Silty Clay Loam) | | | **MOIST** | **WET** |
| S (Shoulder Slope) | | Si (Silt) | | | | |
| 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 | | 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.**

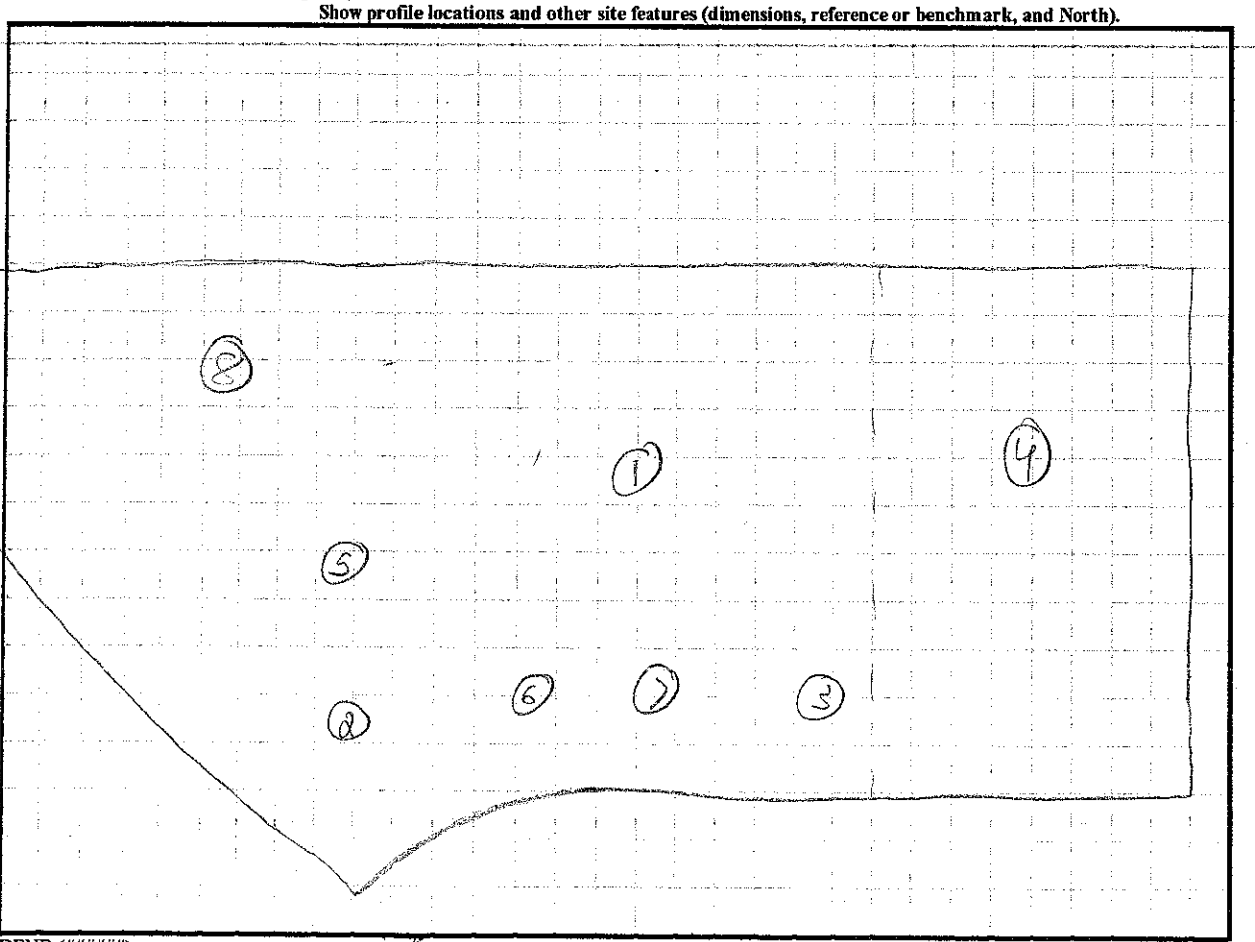
***NOTES***

| | |
|---|---|
| *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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Sheet 2 of 2
PROPERTY ID #:
COUNTY: IREDELL

# SOIL/SITE EVALUATION
## *for* ON-SITE WASTEWATER SYSTEM

OWNER: DelBert & LINDA SPCHR.'ST
APPLICATION DATE 8/18/05
ADDRESS:
DATE EVALUATED: 9/21/05
PROPOSED FACILITY: PROPOSED DESIGN FLOW (.1949): PROPERTY SIZE:
LOCATION OF SITE: 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 |
|---|---|---|---|---|---|---|---|---|---|
| 5 | F<br>LL<br>3% | 0-48 | m SBK C | fr SS/SP SOXP | CHROMA<br>4 30"<br>2 33"<br>1 40" | 48" | | | 4<br>Ø |
| 6 | S<br>LL<br>8% | 0-24<br>24-36<br>36+ | m SBK SCL<br>m SBK SC<br>SC + SAP | VFr NS/NP SOXP<br>fr SS/SP SOXP | | 36" | | | PS<br>.3 |
| 7 | F<br>LL<br>5% | 0-12<br>12-48 | m SBK SCL<br>m SBK C | VFr SS/SP SOXP<br>fr SS/SP SOXP | CHROMA<br>2 18"<br>1 24" | 48" | | | 4<br>Ø |
| 8 | F<br>LL<br>3% | 0-15<br>15-48 | m SBK SCL<br>m SBK C | VFr SS/SP SOXP<br>fr SS/SP SOXP | CHROMA<br>4 20"<br>2 40" | | | | PS<br>.3 |

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

OTHER FACTORS (.1946):
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OTHER(S) PRESENT:

COMMENTS:

# LEGEND

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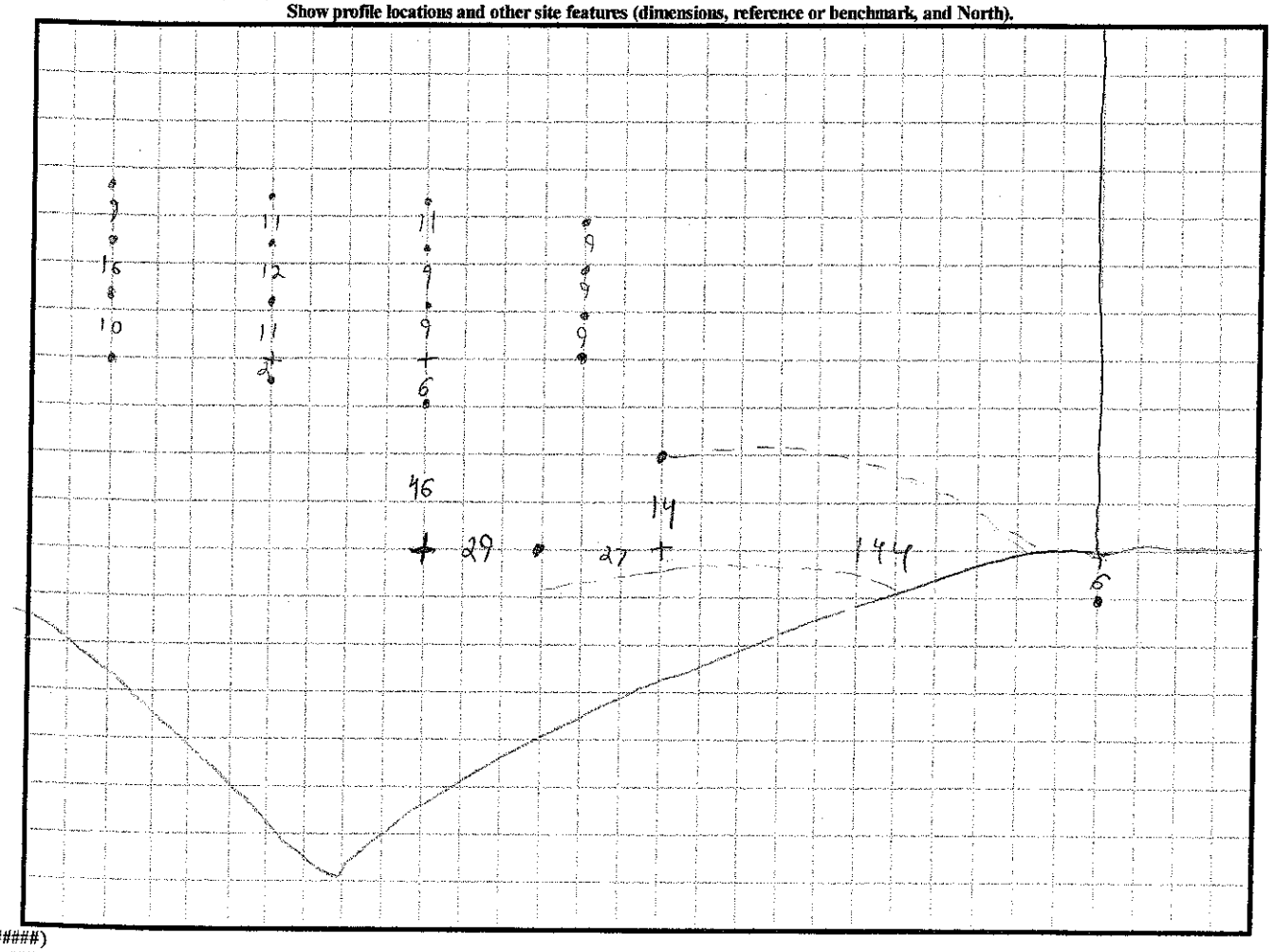
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