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

Sheet ___ of ___
PROPERTY ID #:
COUNTY: Iredell

17 12.1

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

OWNER: Americas Home Place
ADDRESS: 1206 Greenland Drive
PROPOSED FACILITY: 3 BR
PROPOSED DESIGN FLOW (.1949): 360 GPD
LOCATION OF SITE: 300 Mason Farm Rd
APPLICATION DATE: 2/13/17
DATE EVALUATED: 3/13/17
PROPERTY SIZE: 25.7 acres
PROPERTY RECORDED: Yes

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 | Shoulder Primary Header | 0-14 | SCL V.V.SBK | very Friable, SS,Sp,Sap | – | 48 | – | – | 0.375 PS |
| | | 14-25 | clay w.SBK some mica | Sl. Firm, SS, Sp, Sap | | | | | |
| | | 25-48" | Clay Loam V.W.SBK + some SAP | Friable, SS, Sp, Sap | | | | | |
| 2 | Side Slope Distal | 0-13 | SCL V.W.SBK | Friable, SS, Sp, Sap | – | 48 | – | – | 0.30 PS |
| | | 13-26 | clay w.SBK some mica | Sl. Firm, SS, Sp, Sap | | | | | |
| | | 26-48 | Clay Loam w.SBK . some SAP SAP vein 35-38" | Friable SS, Sp, Sap | | | | | |
| 3 | ≈13% Repair Head | 0-13" | SCL V.W.SBK | Sl. Friable, SS, Sp, Sap | – | 43 | – | – | 0.30 PS |
| | | 13-25" | Clay w.SBK | Sl. Firm, SS, Sp, Sap | | | | | |
| | | 25-43" | Clay Loam W.SBK some SAP | Friable, SS, Sp, Sap | | | | | |
| | | 43-48 | MA Sandy Saprolite | very Friable + very wet Brown | | | | | |
| 4 | Repair ≈17% Distal | 0-13 | SCL V.W.SBK | Sl. Firm, SS, Sp, Sap | – | 45 | – | – | 0.30 PS |
| | | 13-33 | Clay W.SBK | Sl. Firm, SS, Sp, Sap | | | | | |
| | | 33-45 | Clay Loam W.SBK some SAP | Friable, SS, Sp, Sap | | | | | |
| | | 45-48" | MA Sandy Saprolite | Very Friable + very wet Brown | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | 300+ | 300+ |
| System Type(s) | 25% | 25% |
| Site LTAR | 0.3 | 0.3 |

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

COMMENTS:

# LEGEND

*use the following standard abbreviations*

| LANDSCAPE POSITION | GROUP | SOIL TEXTURE | CONVENTIONAL .1955 LTAR* | LPP .1957 LTAR* | MINERALOGY/ CONSISTENCE | STRUCTURE |
|---|---|---|---|---|---|---|
| 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 | 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) |
| | II | SL (Sandy Loam)<br>L (Loam) | 0.8 - 0.6 | 0.4 - 0.3 | | |
| | III | Si (Silt)<br>SiCL (Silty Clay Loam)<br>CL (Clay Loam)<br>SCL (Sandy Clay Loam)<br>SiL (Silt Loam) | 0.6 - 0.3 | 0.3 - 0.15 | | |
| | IV | SC (Sandy Clay)<br>SiC (Silty Clay)<br>C (Clay)<br>O (Organic) | 0.4 - 0.1<br><br><br>None | 0.2 - 0.05<br><br><br>None | MOIST<br>VFR (Very Friable)<br>FR (Friable)<br>FI (Firm)<br>VFI (Very Firm v. Very Sticky)<br>EFI (Extremely Firm) | WET<br>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.

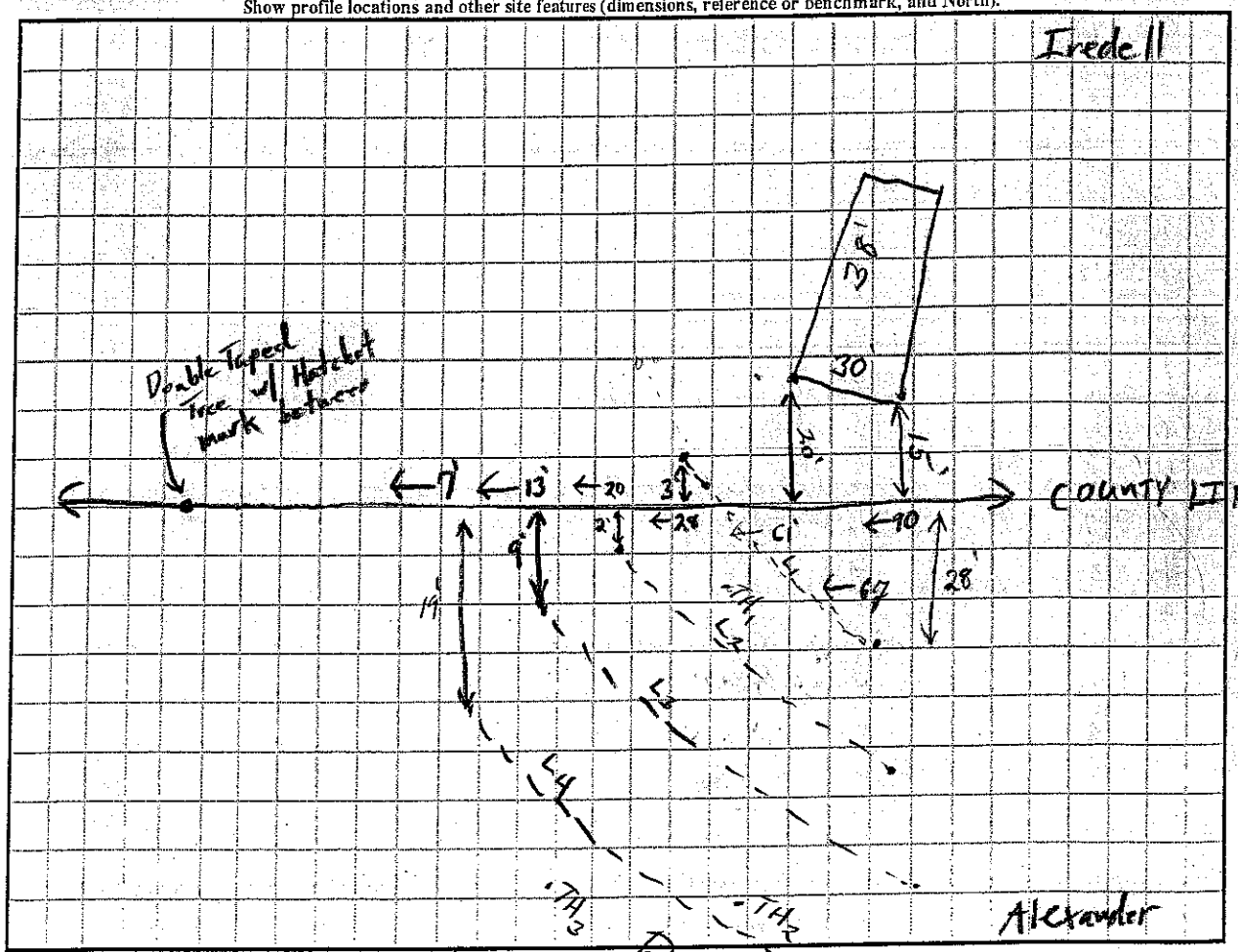
*NOTES*

| | |
|---|---|
| *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/ft$^2$

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




L1 B 7.03 52

L2 P 8.47 70

L3 B 10.20 90

L4 P 12.13 · 95

307 l.f

18.8 / 5.1

27

19% Slope

Repair Area - TH4

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

Sheet 1 of 2
PROPERTY ID #: 4802723516
COUNTY: Iredell

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

OWNER: Jonathan Strange
ADDRESS: 300 Mason Farm Rd Statesville NC
PROPOSED FACILITY: SFD
PROPOSED DESIGN FLOW (.1949): 360
LOCATION OF SITE: 115 N to Mt View to Bacon to Mason Farm
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other W/P
EVALUATION METHOD: ☒ Auger Boring ☒ Pit ☐ Cut

APPLICATION DATE 11/15/15
DATE EVALUATED: 01/04/15
PROPERTY SIZE: 25.7ac
PROPERTY RECORDED: Yes
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 | L 15% | 0-8 | Gr SCL | fr SE | PS | PS | 44" | 44" | PS .3 |
| | | 8-29 | SBK C | f, SE | | | | | |
| | | 29-44 | WABK BC | f/fr SE | | | | | |
| | | 44-48 | Mass Sap | fr N/A | | | | | |
| 2 | NS 20% | 0-14 | Gr SCL | fr SE | | | | | P, PS |
| | | 14-20 | SBK C | f, SE | | | | | |
| | | 20-34 | WSBK BC | f/fr SE | | | | | |
| | | 34-48 | Mass Sap | fr SE | | | | | |
| 3 | NS 20% | 0-14 | Gr SCL | fr SE | | | | | P+PS |
| | | 14-20 | SBK C | f, SE | | | | | |
| | | 20-30 | WSBK BC | f/fr SE | | | | | |
| | | 30-48 | Mass Sap | fr SE | | | | | |
| P 4 | L 15% | 0-14 | Gr SCL | fr SE | PS | PS | N/A | 32" | PS Drip |
| | | 14-29 | SBK C | f, SE | | | | | |
| | | 29-32 | WSBK BC | f/fr SE | | | | | |
| | | 32+ | Mass CR | vfi N/A | | | | | |

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

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

COMMENTS:

# 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 | SEXP (Slightly Expansive) | G (Single Grain) |
| CV (Convex Slope) | | LS (Loamy Sand) | | | EXP (Expansive) | M (Massive) |
| D (Drainage Way) | | | | | | 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.

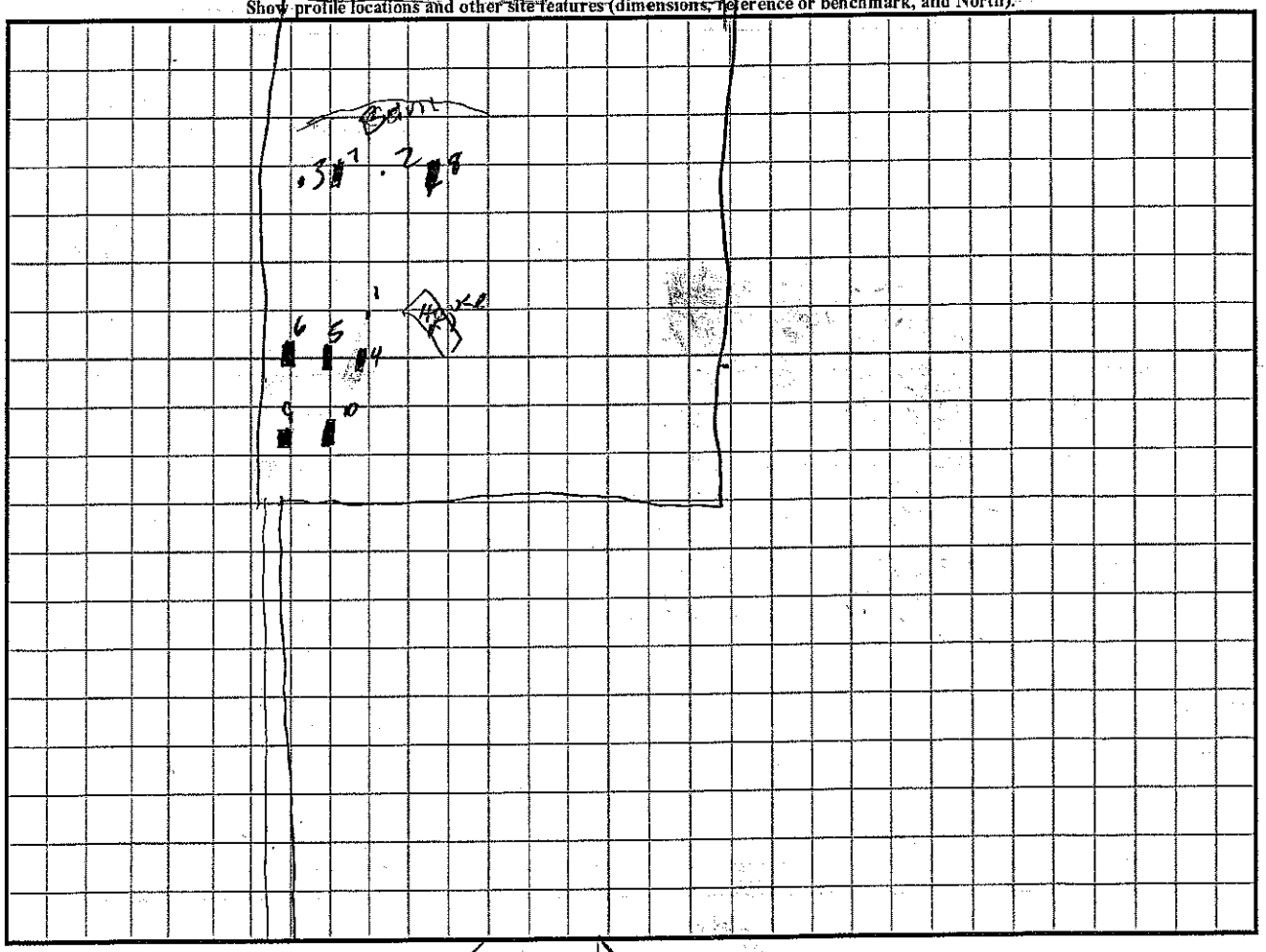
***NOTES***

| | |
|---|---|
| *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).**



# SOIL/SITE EVALUATION

*(Continuation Sheet-Complete all field in full)*



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

PROPERTY ID #: 4802 TE35 16
DATE OF EVALUATION: 1/6/16
COUNTY: Iredell

| PROFILE # | .1940 LANDSCAPE POSITION/ SLOPE % | HORIZON DEPTH (IN.) | SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE | SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY | OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR | .1943 SOIL DEPTH | .1956 SAPRO CLASS | .1944 RESTR HORIZ | PROFILE CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| P 5 | L 15% | 0-14 | Gr SCL | fr SE | PS | PS | PS | 44" | PS .3 |
| | | 14-32 | SBK C | fi SE | | | | | |
| | | 32-44 | WSBK BC | fi/fr SE | | | | | |
| | | 44+ | mass CR+ | vfi W/A | | | | | |
| P 6 | L 15% | 0-14 | Gr SCL | fr SE | PS | PS | W/A | W/A | PS .3 |
| | | 14-40 | SBK C | fi SE | | | | | |
| | | 40-62 | WSBK BC | fi/fr SE | | | | | |
| P 7 | PS 20% | 0-12 | Gr SCL | fr SE | PS | PS | W/A | 30" | PS Drp |
| | | 12-30 | SBK C | fi SE | | | | | |
| | | 30+ | mass CR | vfi N/A | | | | | |
| P 8 | PS 20% | 0-12 | Gr SCL | fr SE | PS | PS | W/A | 32" | PS Drp |
| | | 12-32 | SBK C | fi SE | | | | | |
| | | 32+ | mass CR | vfi SE | | | | | |
| P 9 | L 15% | 0-8 | Gr SCL | fr SE | PS | PS | W/A | W/A | PS .3 |
| | | 8-24 | SBK C | fi SE | | | | | |
| | | 24-48 | WSBK BC | fi/fr SE | | | | | |

COMMENTS: P10 0-6 Gr SCL fr SE
6-24 SBK C fi SE
24-36 WSBK BC fi/fr SE
36-60 Mass Saprolite fr SE