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

Adam PLOTT
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Sheet ___ of ___
PROPERTY ID #: 18476
COUNTY: 4712-97-7151

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

OWNER: LEO ALCANTARA
ADDRESS: 117 OESTATE 28625
PROPOSED FACILITY: 4BR RSE
PROPOSED DESIGN FLOW (.1949): 480
LOCATION OF SITE: BARGER CREEK LOT 5
APPLICATION DATE: 3-30-07
DATE EVALUATED: 4-20-07
PROPERTY SIZE: 5.93 AC
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 | .1941 CONSISTENCE/ MINERALOGY | OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR | .1943 SOIL DEPTH | .1956 SAPRO CLASS | .1944 RESTR HORIZ | PROFILE CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 10% L LOOSE 3.6" in SLOPE | 0-6 | SCL WKGR | fr NS NP | 5Y 7/6 @ 19" | | | | PS .25 |
| | | 6-40' | red CMED SBK | fr SS SP SS | 5Y 7/3 5Y 7/4 @ 32" | | | | |
| | | 40-48" | light yellow CMED SBK | fr SS SP SS | ~7 mm SC strks throughout 40-48" | | | | |
| 2 | 10% L | 0-6 | SCL WKGR | fr NS NP | 2.5 Y 7/6 @ 25"-28" | | | | PS .25 |
| | | 6-40" | CMED SBK | fr SS SP SS | red in between clay | | | | |
| | | 40-48' | SC WK SBK | fr SS SP SS | 2.5 Y 7/6 @ 39" | | | | |
| | | | | | 2.5 Y 7/6 @ 45" | | | | |
| | | | | | 18" TB ON LOW SIDE 21.6" ON HIGH SIDE | | | | |
| 3 | 10% L | 0-6" | SCL WKGR | fr NS NP | 5Y 7/6 @ 20" to 32" | | | | PS .25 |
| | | 6-48" | CMED SBK | fr SS SP SS | 5Y 7/4 + 5Y 7/3 @ 32"-48" | | | | |
| | | | | | MM SC strks 40-48" | | | | |
| | | | | | 18" TB ON LOW SIDE 21.6" ON HIGH SIDE | | | | |
| 4 | 10% V | 0-6 | SCL WKGR | fr NS NP | 2.5 Y 7/6 @ 30" | | | | PS .25 |
| | | 6-48" | CMED SBK | fr SS SP SS | 2.5 7/3 7/4 @ 45" | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | 7 LOW 25 | PUMP LOW |
| System Type(s) | 4EB | 4ES |
| Site LTAR | .25 | .3 |

OTHER FACTORS (.1946): PS
SITE CLASSIFICATION (.1948): ___
EVALUATED BY: L. LOOK
OTHER(S) PRESENT: L. ALCANTARA BULL LOADER

COMMENTS:
(5) 0-6 SCL WKGR fr NS NP
6-48 CMED SBK fr SS SP

# 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.

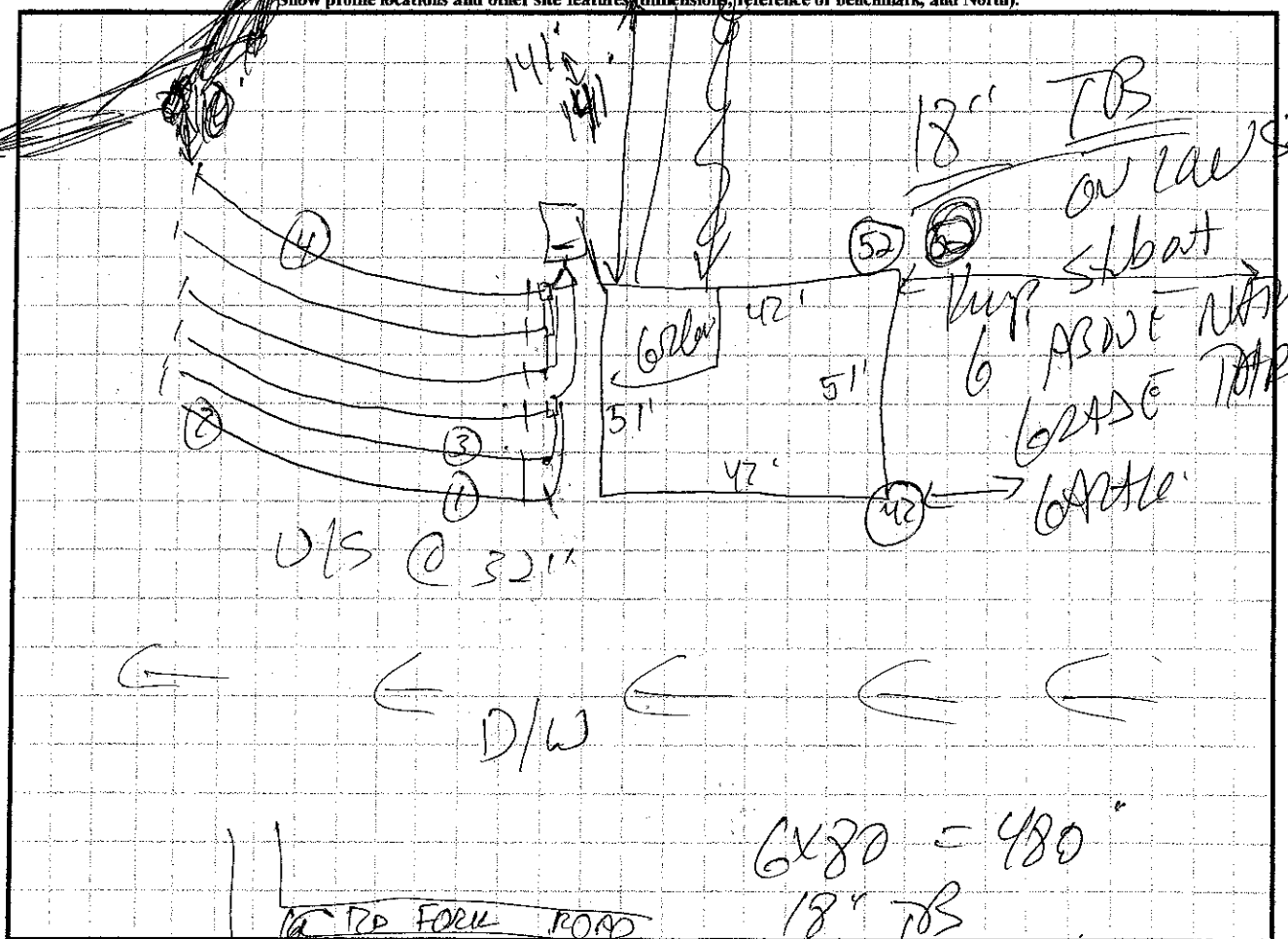
***NOTES***

| | |
|---|---|
| *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/sq. ft.

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




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

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

Sheet ___ of ___
PROPERTY ID #: 118 476
COUNTY: 4712-97-7151

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

OWNER: LEONEL J DORTS ALCANTARA [redacted] APPLICANT: PAUL BADGER DAVID SORENSEN
ADDRESS: 117 DESIREE DR STATESVILLE 28677 APPLICATION DATE: 1-22-04 DATE EVALUATED: 2-23-04
PROPOSED FACILITY: HOUSE LOT PROPOSED DESIGN FLOW (.1949): 480 PROPERTY SIZE: 5.90 AC
LOCATION OF SITE: BADGER CREEK LOTS PROPERTY RECORDED: YES
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

(5) 10-120/0 L 0-10" scl wk sr f ns np nsp
10-48" c med sbk fi sp sep

| 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 | .3 PS REPAIR PROFIL CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 8% L | 0-6" | scl wk gr | f ns np nsp | yellow motts 24-32" | | 2.5 Y 7/6 | | US @ 32" |
| | | 6-48" | c med sbk/abk | fi sp sep | chroma 2 @ 32" | | | | |
| | | | | | 32-48" BRKS TO GREY/YELLOW mix US | | | | |
| 2 | 8% L | 0-6" | scl wk gr | f ns np nsp | yellow motts 24-36" | | 2.5 Y 7/6 | | US @ 36" |
| | | 6-48" | c med sbk/abk | fi sp sep | 36" chroma 2 | | | | |
| | | | | | 36-48" BRKS TO GREY mix US | | | YELLOW | |
| 3 | 8% L | 0-6" | scl wk gr | f ns np nsp | FRENCH DRAIN yellow motts 30-42" | | | | PS .25 |
| | | 6-48" | c med sbk/abk | fi sp sep | 42" chroma 2 | | | 2.5 Y 7/6 | |
| | | | | | 42"-48" BRKS TO GREY mix | | | YELLOW | |
| 4 | 8% L | 0-6" | scl wk sr | f ns np nsp | FRENCH DRAIN yellow motts 32"-48" | | 2.5 Y 7/6 | | PS .25 |
| | | 6-48" | c med sbk/abk | fi sp sep | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | YES | YES |
| System Type(s) | SOIL-RED BLOCK GRAV PANEL | PUMP CHAM |
| Site LTAR | .25 | .3 |

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: L. COOK
OTHER(S) PRESENT: DAVID SORENSEN

# LEGEND

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| 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) | | SLC (Silt Loam Clay) | | | | |
| 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) |
| | | | | | 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) |

*NOTES*

| | |
|---|---|
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