

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

(Complete all fields in full)

OWNER: Great Southern DATE EVALUATED:                       
 ADDRESS: 222 Grand Griffin  
 PROPOSED FACILITY: SFD PROPOSED DESIGN FLOW (.0400): 480 GPD PROPERTY SIZE:                       
 LOCATION OF SITE: Same PROPERTY RECORDED:                       
 WATER SUPPLY:  Public  Single Family Well  Shared Well  Spring  Other                      WATER SUPPLY SETBACK:                       
 EVALUATION METHOD: Auger Boring  Pit  Cut TYPE OF WASTEWATER:  Domestic  High Strength  IPWW

| P<br>R<br>O<br>F<br>I<br>L<br>E<br># | .0502<br>LANDSCAPE<br>POSITION/<br>SLOPE % | HORIZON<br>DEPTH<br>(IN.) | SOIL MORPHOLOGY                |                                     | OTHER PROFILE FACTORS              |                        |                         |                         | .0509<br>PROFILE<br>CLASS<br>& LTAR* | .0503<br>SLOPE<br>CORRE<br>CTION |
|--------------------------------------|--|---------------------------|--------------------------------|-------------------------------------|------------------------------------|------------------------|-------------------------|-------------------------|--------------------------------------|----------------------------------|
|                                      |  |                           | .0503<br>STRUCTURE/<br>TEXTURE | .0503<br>CONSISTENCE/<br>MINERALOGY | .0504<br>SOIL<br>WETNESS/<br>COLOR | .0505<br>SOIL<br>DEPTH | .0506<br>SAPRO<br>CLASS | .0507<br>RESTR<br>HORIZ |                                      |                                  |
| 1                                    | NS<br>5-7%                                 | 0-10                      | LS                             | fr/msp/nxp                          | 10yR 8/1<br>≥ 32                   | > 48"                  | -                       | -                       | S<br>.4                              |                                  |
|                                      |  | 10-48                     | sci                            | f./sp/sxp                           |                                    |                        |                         |                         |                                      |                                  |
|                                      |  |                           |                                |                                     |                                    |                        |                         |                         |                                      |                                  |
| 2                                    | NS<br>5-7%                                 | 0-10                      | LS                             | fr/nxp/nxp                          | 10yR<br>8/1<br>≥ 36"               | > 50"                  | -                       | -                       | S<br>.4                              |                                  |
|                                      |  | 10-50                     | sci                            | f./sp/sxp                           |                                    |                        |                         |                         |                                      |                                  |
|                                      |  |                           |                                |                                     |                                    |                        |                         |                         |                                      |                                  |
| 3                                    |  |                           |                                |                                     |                                    |                        |                         |                         |                                      |                                  |
|                                      |  |                           |                                |                                     |                                    |                        |                         |                         |                                      |                                  |
|                                      |  |                           |                                |                                     |                                    |                        |                         |                         |                                      |                                  |
| 4                                    |  |                           |                                |                                     |                                    |                        |                         |                         |                                      |                                  |
|                                      |  |                           |                                |                                     |                                    |                        |                         |                         |                                      |                                  |
|                                      |  |                           |                                |                                     |                                    |                        |                         |                         |                                      |                                  |

| DESCRIPTION             | INITIAL SYSTEM                      | REPAIR SYSTEM                       | SITE CLASSIFICATION (.0509): <u>S</u><br>EVALUATED BY: <u>M. R. REED</u><br>OTHER(S) PRESENT: <u>                    </u> |
|-------------------------|-------------------------------------|-------------------------------------|---|
| Available Space (.0508) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |   |
| System Type(s)          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |   |
| Site LTAR               | <u>.4</u>                           | <u>.4</u>                           |   |
| Maximum Trench Depth    | <u>20</u>                           | <u>20</u>                           |   |

Comments:

# LEGEND

| LANDSCAPE POSITION | SOIL GROUP       | SOIL TEXTURE           | CONVENTIONAL LTAR (gpd/ft <sup>2</sup> ) | SAPROLITE LTAR (gpd/ft <sup>2</sup> ) | LPP LTAR (gpd/ft <sup>2</sup> ) | MINERALOGY/ CONSISTENCE |                      | STRUCTURE                 |                       |            |
|--------------------|------------------|------------------------|--|---------------------------------------|---------------------------------|-------------------------|----------------------|---------------------------|-----------------------|------------|
|                    |                  |                        |  |                                       |                                 | MOIST                   | WET                  |                           |                       |            |
| CC (Concave slope) | I                | S (Sand)               | 0.8 - 1.2                                | 0.6 - 0.8                             | 0.4 - 0.6                       | MOIST                   | WET                  | SG (Single grain)         |                       |            |
| CV (Convex Slope)  |                  | LS (Loamy sand)        |  | 0.5 - 0.7                             |                                 | Lo (Loose)              | NS (Non-sticky)      | M (Massive)               |                       |            |
| D (Drainage way)   | II               | SL (Sandy loam)        | 0.6 - 0.8                                | 0.4 - 0.6                             | 0.3 - 0.4                       | VFR (Very friable)      | SS (Slightly sticky) | GR (Granular)             |                       |            |
| FP (Flood plain)   |                  | L (Loam)               |  | 0.2 - 0.4                             |                                 | FR (Friable)            | S (Sticky)           | SBK (Subangular blocky)   |                       |            |
| FS (Foot slope)    | III              | SiL (Silt loam)        | 0.3 - 0.6                                | 0.1 - 0.3                             | 0.15 - 0.3                      | FI (Firm)               | VS (Very sticky)     | ABK (Angular blocky)      |                       |            |
| H (Head slope)     |                  | SCL (Sandy clay loam)  |  | 0.05 - 0.15**                         |                                 | VFI (Very firm)         | NP (Non-plastic)     | PR (Prismatic)            |                       |            |
| L (Linear Slope)   |                  | CL (Clay loam)         |  | None                                  |                                 | None                    | None                 | EFI (Extremely firm)      | SP (Slightly plastic) | PL (Platy) |
| N (Nose slope)     |                  | SiCL (Silty clay loam) |  |                                       |                                 |                         |                      | P (Plastic)               | VP (Very plastic)     |            |
| R (Ridge/summit)   |                  | Si (Silt)              |  |                                       |                                 |                         |                      |                           |                       |            |
| S (Shoulder slope) |                  | SC (Sandy clay)        |  |                                       |                                 |                         |                      | SEXP (Slightly expansive) |                       |            |
| T (Terrace)        | SiC (Silty clay) | 0.1 - 0.4              | 0.05 - 0.2                               | EXP (Expansive)                       |                                 |                         |                      |                           |                       |            |
| TS (Toe Slope)     | C (Clay)         |                        |  |                                       |                                 |                         |                      |                           |                       |            |
|                    |                  | O (Organic)            | None                                     |                                       |                                 |                         |                      |                           |                       |            |

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

\*\*Sandy clay loam saprolite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.

*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); Evaluation of saprolite shall be by pits.

*SOIL WETNESS CLASSIFICATION* 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

S (Suitable) or U (Unsuitable)

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

