Pursuant to Tennessee Rules, Chapter 0400-04-07, the proposed activity described below has been submitted for approval under an Aquatic Resource Alteration Permit and Section 401 Water Quality Certification. This notice is intended to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. No decision has been made whether to issue or deny this application.

**PERMIT COORDINATOR**
Meghan Ploch
423-634-2482
Meghan.Ploch@tn.gov

**APPLICANT**
Southern Land Company
Brian Sewell
1550 West McEwen Drive, Suite 200
Franklin, TN 37027

**LOCATION**
Westhaven Subdivision, Franklin, Williamson County. Latitude 35.928637, Longitude -86.915963

**PROJECT DESCRIPTION / PURPOSE**
The Southern Land Company proposes to expand the Westhaven Subdivision into Area D to include an additional 170 dwellings. The parcel to be developed includes three wetland areas, two wet weather conveyances and two streams. Wetland 6 and stream 19 will be impacted, whereas the remaining aquatic resources will be avoided. Wetland 6 (0.35 acres) will be filled to allow safe and customary grades to be established for the residential development. Two 60-foot bridge spans are proposed to be installed in stream 19, impacting approximately 120 linear feet. The loss of 0.35 acres of wetlands will be offset by the purchase of 0.70 mitigation credits from the Swamp Road Mitigation Bank II. Impacts to stream 19, Hatcher Spring Creek, will be offset through on-site Permittee Responsible Mitigation. The applicant proposes to create functional lift to 480 linear feet of an upstream segment of Hatcher Spring Creek. Mitigation activities include the improvement to function-based parameters in the functional categories of hydraulics and geomorphology.

**POINTS OF IMPACT**
Stream 19- Latitude: 35.92984   Longitude: -86.917498
Wetland 6- Latitude: 35.927157   Longitude: -86.915064

**WATERSHED / WATERBODY DESCRIPTION**
Hatcher Spring Creek is located in the Harpeth River Watershed in Middle Tennessee and includes parts of Cheatham, Davidson, Dickson, Hickman, Rutherford and Williamson Counties. The Harpeth River Watershed is approximately 863 square miles and drains to the Cumberland River. For more information on this watershed or any Tennessee watershed, please visit our [TN Basins webpage](#).

**Ecoregion**
71h, Outer Nashville Basin
**Stream Name / ID:** Hatcher Spring Creek/ TN05130204013_0100

<table>
<thead>
<tr>
<th>Designated Use</th>
<th>Use Support</th>
<th>Causes</th>
<th>Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>livestock watering &amp; wildlife</td>
<td>fully supporting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>irrigation</td>
<td>fully supporting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>recreation</td>
<td>not assessed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>fish and aquatic life</td>
<td>not supporting</td>
<td>Sedimentation/Siltation</td>
<td>Site clearance (land development or redevelopment)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Grazing in riparian zones</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Alteration in stream-side or littoral vegetative covers</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Grazing in riparian zones</td>
</tr>
</tbody>
</table>

**Assessment Date:** May 16, 2014

<table>
<thead>
<tr>
<th>Wetland ID</th>
<th>Resource Value</th>
<th>Cowardin Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland 6</td>
<td>n/a</td>
<td>Palustrine Emergent (PEM)</td>
</tr>
</tbody>
</table>

To view the proposed location of these impacts and the watershed condition visit [http://tdeconline.tn.gov/dwr/](http://tdeconline.tn.gov/dwr/) and search on the permit number listed in the title of this Public Notice.

The affected waters have unavailable parameters for habitat.

**DETERMINATIONS**

In accordance with the Tennessee Antidegradation Statement (Rule 0400-40-03-.06), the Division has made a preliminary determination that the proposed activities will result in *de minimis* degradation to water quality because the applicant proposes to provide in-system mitigation.

**FACTORS CONSIDERED**

In deciding whether to issue or deny a permit, the Division will consider all comments of record and the requirements of applicable federal and state laws. In making this decision, a determination will be made regarding the lost value of the resource compared to the value of any proposed mitigation. The Division shall consider practicable alternatives to the alteration, loss of waters or habitat, diminishment in biological diversity, cumulative or secondary impacts to the water resource, and adverse impacts to unique, high quality, or impaired waters.

**HOW TO COMMENT**

Persons wishing to comment on the proposal are invited to submit written comments to the Division. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant’s name and permit number should be referenced. Send all written comments to the Division’s address listed below and to the attention of the permit coordinator. You may also comment via email to water.permits@tn.gov. After the Division makes a final permit decision, a permit appeal may be filed by the applicant or by any person who participated in the public comment period whose appeal is based on comments given to the Division in writing during the public comment period or in testimony at a formal public hearing. If it is hard for you to read, speak, or understand English, TDEC may be able to provide translation or interpretation services free of charge. Please contact Saul Castillo at 615-532-0462 for more information.
**PUBLIC HEARING**
Interested persons may request in writing that the Division hold a public hearing on this application. The request must be received by the Division within the comment period, indicate the interest of the person requesting it, the reason(s) that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the Division will hold a public hearing. Send all public hearing requests to the attention of the permit coordinator at the address listed below.

**FILE REVIEW**
The permit application, supporting documentation including detailed plans and maps, and related comments are available for review on the internet at the Division’s [data viewer](#) by entering the permit number listed in the title of this Public Notice. The file may be viewed in person at the Division’s address (listed below) for review and/or copying.

Tennessee Department of Environment & Conservation
Division of Water Resources, Natural Resources Unit
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243
NOTES

GENERAL NOTES:

1. THIS BRIDGE HAS BEEN DESIGNED FOR GENERAL SITE CONDITIONS. THE PROJECT ENGINEER SHALL BE
RESPONSIBLE FOR THE STRUCTURE'S SUITABILITY TO THE EXISTING SITE CONDITIONS AND FOR THE HYDRAULIC
EVALUATION—INCLUDING SCOUR AND CONFIRMATION OF SOIL CONDITIONS.

2. PRIOR TO CONSTRUCTION, CONTRACTOR MUST VERIFY ALL ELEVATIONS SHOWN THROUGH THE ENGINEER.

3. ONLY CONTECH ENGINEERED SOLUTIONS LLC, THE CON/SPAN® APPROVED PRECASTER IN TENNESSEE MAY
PROVIDE THE STRUCTURE DESIGNED IN ACCORDANCE WITH THESE PLANS.

4. THE USE OF ANOTHER PRECAST STRUCTURE WITH THE DESIGN ASSUMPTIONS USED FOR THE CON/SPAN®
STRUCTURE MAY LEAD TO SERIOUS DESIGN ERRORS. USE ONLY OTHER PRECAST STRUCTURE WITH THIS DESIGN
AND DRAWINGS Voids ANY CERTIFICATION OF THIS DESIGN AND WARRANTY. CONTECH Engineered Solutions,
LLC ASSUMES NO LIABILITY FOR DESIGN OF ANY ALTERNATE OR SIMILAR TYPE STRUCTURES.

5. ALTERNATE STRUCTURES MAY BE CONSIDERED, PROVIDED THAT DRAWINGS AND CALCULATIONS SIGNED
AND SEALED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF TENNESSEE, EMPLOYED BY THE PRECAST
CONCRETE BRIDGE SUPPLIER, ARE SUBMITTED TO THE ENGINEER 2 WEEKS PRIOR TO THE BID DATE FOR REVIEW
AND APPROVAL.

6. ALTERNATE STRUCTURES MAY BE CONSIDERED, PROVIDED THAT THE ALTERNATE DESIGN DOES NOT REDUCE
THE HYDRAULIC OPENING OF THE STRUCTURE AS SHOWN ON THE DRAWINGS. AT A MINIMUM THE ALTERNATE
STRUCTURE MUST PROVIDE THE SAME OR LARGER SPAN AND RISE AS THE STRUCTURE SHOWN ON THE
DRAWINGS.

7. THE PRECAST ARCH SUPPLIER MUST ATTEND THE PRE-BID MEETING, IF ONE IS HELD.

8. SUPPLIER OF PROPOSED ALTERNATES TO A CON/SPAN® BRIDGE SYSTEM MUST SUBMIT AT LEAST TWO (2)
INDEPENDENTLY VERIFIED FULL SCALE LOAD TESTS THAT CONFIRM THE PROPOSED DESIGN METHODOLOGY
OF THE THREE SIDED/ARCH STRUCTURE(S). THE PROPOSED ALTERNATE, UPON SATISFACTORY CONFIRMATION OF
DESIGN METHODOLOGY, MAY BE CONSIDERED AN ACCEPTABLE ALTERNATE.

9. PROPOSED ALTERNATE STRUCTURES MAY BE CONSIDERED, PROVIDED THAT THE PRECAST CONCRETE BRIDGE
STRUCTURES ARE PROVIDED BY A SUPPLIER THAT HAS A MINIMUM OF TWO (2) REGISTERED PROFESSIONAL
ENGINEERS ON STAFF THAT ARE DEDICATED TO THE DESIGN OF THESE TYPES OF STRUCTURES. SUPPLIER MUST
PROVIDE THESE NAMES, P.E. LICENSE NUMBERS AND DATES OF HIRE AT TIME OF ALTERNATE SUBMITTAL.

DESIGN DATA

DESIGN LOADING:

BridgE Units: HL-93
Headwalls: Earth Pressure Only
Wingwalls: Earth Pressure Only

Design Fill Height: 1'-0" to 1'-5"
From Top of Crown to Top of Pavement
Design Method: Load resistance factor design per AASHTO LRFD specification assumed nominal
bearing resistance: 5000 PSF
Assumed factored bearing resistance: 5000 PSF

"AT THE TIME OF DESIGN, A GEOTECHNICAL REPORT FOR THE PROJECT SITE WAS NOT AVAILABLE. IT IS THE
PROJECT ENGINEER'S, OWNER'S AND/OR THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE ACTUAL SITE
CONDITIONS AT THE TIME OF CONSTRUCTION ARE CONSISTENT WITH THE ASSUMED ALLOWABLE SOIL BEARING
PRESSURE WITH A GEOTECHNICAL INVESTIGATION FROM A QUALIFIED GEOTECHNICAL ENGINEER.

MATERIALS

Precast units shall be constructed and installed in accordance with CON/SPAN® specifications.
Concrete for Footings shall have a minimum compressive strength of 4000 PSF. Reinforcing Steel
for Footings shall conform to ASTM A615 or A996-Grade 60.
CROSS SECTION A-A
Approximate Area: 219 sq. ft. used, 222 sq. ft. total

NOTES
• FOOTING DIMENSIONS AND DETAILS SHOWN ARE CONCEPTUAL ONLY
• FINAL DIMENSIONS & DETAILS TO BE FURNISHED BY THE PROJECT ENGINEERS
• FOUNDATION REINFORCING TO BE DETERMINED
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If discrepancies between the supplied information upon which the drawing is based and actual field conditions are encountered as site work progresses, these discrepancies must be reported to CONTECH immediately for re-evaluation of the design. CONTECH accepts no liability for designs based on missing, incomplete or inaccurate information supplied by others.

MARK
DATE
REVISION DESCRIPTION
BY

9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
980-338-1122 513-645-7000 513-645-7993 FAX

CONSPAN O SERIES O635 - 35'-0" X 8'-1"
WESTHAVEN
35' SPAN OPTION
FRANKLIN, TN

TYPICAL END ELEVATION

PROFILE SECTION B-B

PRELIMINARY
NOT FOR CONSTRUCTION
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**CONSPAN O SERIES O635 - 35'-0" X 8'-1"**

**WESTHAVEN**

**FRANKLIN, TN**

Project No.: 8888888

Seq No.: 402.1

Date: 3/17/2019

Designed: Drawn: JMS

Checked: Approved: JMS

Sheet No.: 4 OF 5

**NOT FOR CONSTRUCTION**