

## Harnett County Department of Public Health Improvement Permit

A building permit cannot be issued with only an Improvement Permit

ISSUED TO: Donald + Sylvia McKay PROPERTY LOCATION: 270 Thorntons Creek (Old Stage U.S.)  
 SUBDIVISION: Thorntons Creek LOT # 12  
 NEW  REPAIR  EXPANSION   
 Site Improvements required prior to Construction Authorization Issuance: \_\_\_\_\_  
 Type of Structure: 4-Bedroom 65' x 59' SFD  
 Proposed Wastewater System Type: 25% Reduction Sys.  
 Projected Daily Flow: 480 GPD  
 Number of bedrooms: 4 Number of Occupants: 8 max  
 Basement  Yes  No  
 Pump Required:  Yes  No  May be required based on final location and elevations of facilities  
 Type of Water Supply:  Community  Public  Well Distance from well NA feet Permit valid for:  Five years  
 Permit conditions: \_\_\_\_\_  No expiration

Authorized State Agent: [Signature] Date: 01/08/2020 SEE ATTACHED SITE SKETCH  
 The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit.

### Construction Authorization (Required for Building Permit)

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by references into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.

ISSUED TO: Donald + Sylvia McKay PROPERTY LOCATION: 270 Thorntons Creek (Old Stage U.S.)  
 SUBDIVISION: Thorntons Creek LOT # 12  
 Facility Type: 4B2 SFD  New  Expansion  Repair  
 Basement?  Yes  No Basement Fixtures?  Yes  No  
 Type of Wastewater System\*\* 25% Reduction System (Initial) Wastewater Flow: 480 GPD  
 (See note below, if applicable)   
Pump to 50% Red. System (Repair)  
 Installation Requirements/Conditions  
 Number of trenches 4  
 Septic Tank Size 1250 gallons Exact length of each trench 75 feet Trench Spacing: 9 Feet on Center  
 Pump Tank Size \_\_\_\_\_ gallons Trenches shall be installed on contour at a Soil Cover: 6 inches  
 Maximum Trench Depth of: 18 inches (Maximum soil cover shall not exceed 36" above the trench bottom)  
 (Trench bottoms shall be level to +1-1/4" in all directions)  
 Pump Requirements: \_\_\_\_\_ ft. TDH vs. \_\_\_\_\_ GPM Aggregate Depth: NA inches below pipe  
 Conditions: Gravity to D-Box Equal Distribution Required NA inches above pipe  
NA inches total

**WATER LINES (INCLUDING IRRIGATION) MUST BE 10FT. FROM ANY PART OF SEPTIC SYSTEM OR REPAIR AREA.  
 NO UTILITIES ALLOWED IN INITIAL OR REPAIR DRAIN FIELD AREA.**

\*\*If applicable: I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.  
 Owner/Legal Representative Signature: \_\_\_\_\_ Date: \_\_\_\_\_

This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be transferred when there is a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. SEE ATTACHED SITE SKETCH

Authorized State Agent: [Signature] Date: 01/08/2020  
ANDREW CURRAN Construction Authorization Expiration Date: 01/08/2025



# HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

P.O. Box 400, Lillington NC 27546-0400

Phone (910) 893-8743 / Fax (910) 893-3594

[www.halowensoil.com](http://www.halowensoil.com)

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29 October 2019

Donald McKoy  
Sylvia McKoy  
185 Monts Lane  
Erwin, NC 28339-8443

Reference: Preliminary Soil Investigation  
Lot 12 Thornton's Creek Subdivision  
NC PIN 0588-28-9738

Dear Mr. and Mrs. McKoy,

A site investigation has been conducted for the above referenced property, located at 270 Thornton's Creek Drive in the Grove Township of Harnett County, North Carolina. The purpose of this investigation was to determine the site's ability to support subsurface sewage waste disposal systems. All sewage disposal ratings and determinations were made in accordance with "Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A .1900". This report represents my professional opinion as a Licensed Soil Scientist but does not guarantee or represent permit approval for this lot by the local Health Department. An improvement permit will need to be obtained from the Health Department that specifies the proposed home size and location, and the design and location of the septic system to be installed.

The soils were evaluated under moist soil conditions through the advancing of auger borings. A portion of this lot was observed to be underlain by soils that are rated as provisionally suitable soils for subsurface sewage waste disposal (see attached map). These provisionally suitable soils were observed to be firm sandy clay loams to greater than 20 inches and will support long term acceptance rates of 0.4 gal/day/sqft. In other words, you should expect between 80 to 100 feet of conventional drainline would be required per bedroom in the proposed home. The unsuitable soil area is so rated due to inadequate soil depth to excessive soil wetness conditions and/or unsuitable landscape position. The ability to utilize alternative systems or make modifications to this area to allow for septic systems is minimal. Some of this area will likely support building foundations, and a home could be sited in this area as shown on the map.

It appears that the soils on this lot are adequate to support a conventional septic system and repair area for a three or four bedroom residence. The house should be located near the front of the lot and a pump will be necessary to lift effluent uphill to a septic system located in the usable soil area.

I appreciate the opportunity to provide this service and trust that you will feel free to call on me again in the future. If you have any questions or need additional information, please contact me at your convenience.

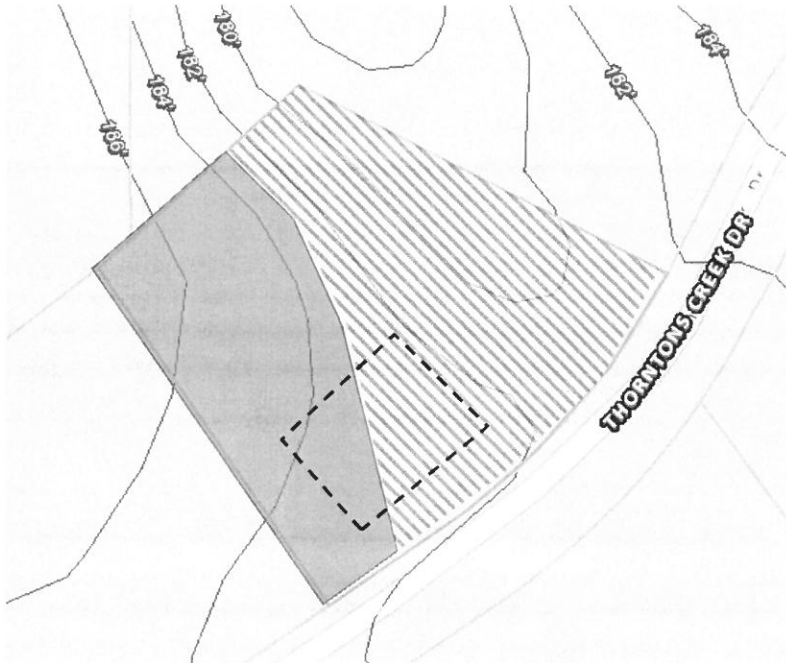





Sincerely,


Hal Owen  
Licensed Soil Scientist

Preliminary Soil Investigation  
Lot 12 Thornton's Creek Subdivision  
NC PIN 0588-28-9738  
28 October 2019

*Soil Map*



<i>Soil Map Legend</i>	
	Provisionally Suitable Soils
	Unsuitable Soils
	Proposed House Site

Scale 1 in = 100 ft  
  
*Distances are paced  
and approximate.  
Not a survey.*

