HTE# 14-5-34883

Hark...t County Department of Public ...ealth

28091

Improvement Permit

A building permit cannot be issued wi	th only an Improveme	ent Permit	
PROPERTY LOCA	ATION: 51415	-RAWIS CA RD	
ISSUED TO: Onegon + Gircles Cex SUBDIVISION_	Hectors	creek.	LOT # <u>19</u>
NEW 🖉 🖌 🕅 EXPANSION 🗹		required prior to Construction Authoriza	ation Issuance:
Type of Structure: <u>EKSFD</u>	-		
Proposed Wastewater System Type:			
Projected Daily Flow: 480 GPD			
Number of bedrooms: <u> </u>			
Basement 🗆 Yes 🖉 No 🦯			
Pump Required: 🗆 Yes 🛛 No 🖾 May be required based on final location and elev	ations of facilities		
Type of Water Supply: Community Public Well Distance from well	feet	Permit valid for:	Five years
Permit conditions:			\Box No expiration
Authorized State Agent: man C Marha Date: _	11-20-	<u>14</u> SEE ATTAC	CHED SITE SKETCH
The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permi			

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.

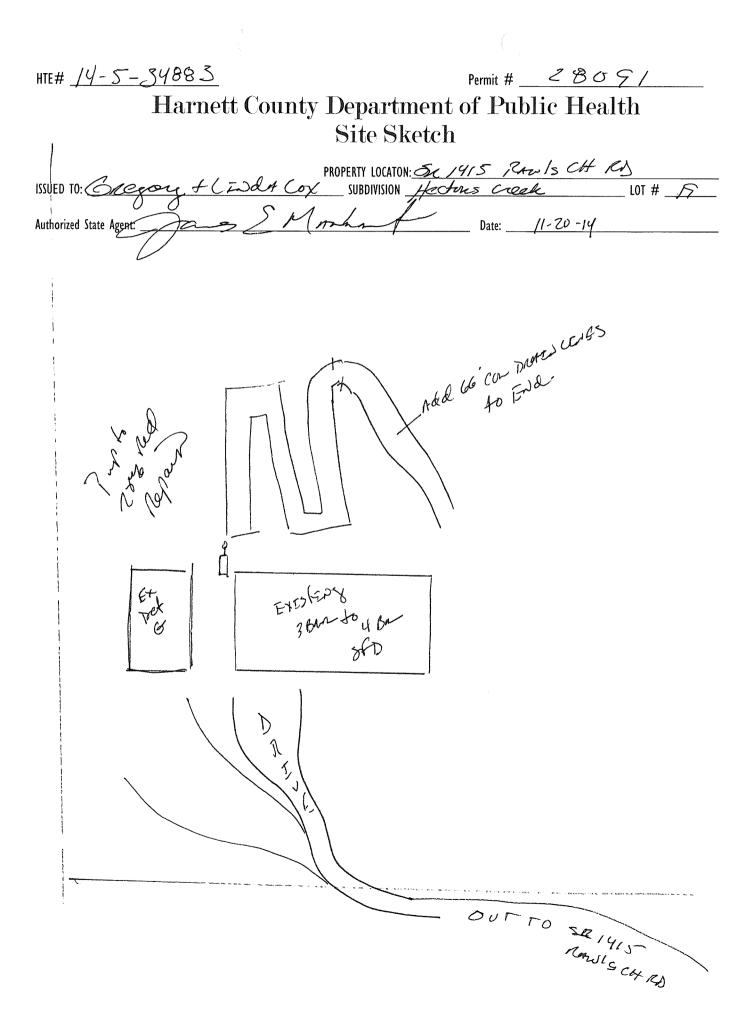
ISSUED TO: Gregory + Could Ce	PROPERTY LOCATION: 5/4	15 TAWIS (Hunch RD
	3n- SUBDIVISION Hectory	Check LOT # 19
Facility Type: $Ex SED 3+04$	New 🖾 Expansion 🗖 Repair	· · · · · ·
Basement? L Tes L No Basement Fixt	ures? 🗀 res 🖾 Ng	— .
Type of Wastewater System**	entimpl	(Initial) Wastewater Flow: <u>360</u> GPD
(See note below, if applicable □) Pumpto	25% RADOLS (Repair)	
Installation Requirements/Conditions	Number of trenches	a
Septic Tank Size <u>/000 GP</u> Failons Pump Tank Size gallons	Exact length of each trench <u>66</u> feet	Trench Spacing: Feet on Center
Pump Tank Size gallons	Trenches shall be installed on contour at a	Soil Cover: inches
	Maximum Trench Depth of: <u>24->16</u> inches	(Maximum soil cover shall not exceed
	(Trench bottoms shall be level to $+/-1/4$ "	36" above the trench bottom)
	in all directions)	,
Pump Requirements:ft. TDH vs	_ GPM	inches below pipe
		Aggregate Depth: inches above pipe
Conditions:		/ Z 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	n 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	b the conditions of this permit. SEE ATTACHED SITE SKETCH
Authorized State Agent: MAnhont	Date:

Construction Authorization Expiration Date: 1 - 20 - 1



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

13 November 2014

Mr. Greg Cox 397 Hectors Creek Lane Fuquay Varina, NC 27526

Reference: Soil Investigation and Septic System Design Lot 19 Hectors Creek Subdivision (8.63 Acres)

Report y BAN only

Dear Mr. Greg Cox,

A site investigation was conducted on 12 November 2014 for the above referenced property, which is located at 397 Hectors Creek Lane in the Hector's Creek Township of Harnett County, North Carolina. The purpose of this investigation was to determine the feasibility of modifying the existing septic system and repair area for the existing three-bedroom home to support a four-bedroom home. A soil and site investigation was conducted, and it appears that this lot is capable of supporting the septic needs of a four bedroom home. This report represents my professional opinion but does not guarantee or represent permit approval for any lot by the local Health Department.

Hal Owen & Associates Inc. reviewed the septic permits issued by the Harnett County Health Department and identified the existing septic system at the site. The home is connected to the public water supply. The existing septic system utilizes a 1000 gallon septic tank from which effluent is distributed by gravity to two 200-foot long gravel conventional drainlines located in the back yard. The soils were investigated and found to be provisionally suitable for subsurface sewage waste disposal in the vicinity of the existing system.

It appears the initial septic system can be modified to support the septic needs of a four bedroom home. The storage capacity of the existing septic tank is adequate to handle the additional daily flow, and it will not need to be replaced. An additional 133 feet of drainline will need to be added to the system by extending each existing drainline by 66 feet. The new drainlines will be added below the existing lines, and step-downs will be necessary to connect the old lines to the new lines. The new drainlines should be installed on contour with trench depths at 24 inches below surface. The modified system will utilize gravity distribution to two 266-foot conventional drainlines and have a corresponding long term application rate of 0.3 gal/day/ft².

HAL OWEN & ASSOCIATES, INC.

A soil investigation was conducted in the northern part of the property, which was observed to be underlain by soils rated as provisionally suitable soils for subsurface sewage waste disposal (see attached map). These provisionally suitable soils were observed to be firm clays to greater than 36 inches and will support long term acceptance rates of 0.3 gal/day/sqft. This usable soil area is approximately 1.5 acres in size, and it appears adequate to support the repair area for a four bedroom home.

This report and the attached septic system design information will need to be submitted to the County Health Department for review and the permitting process. I appreciate the opportunity to provide this service and hope to be allowed to assist you again in the future. If you have any questions or need additional information, please contact me at your convenience.

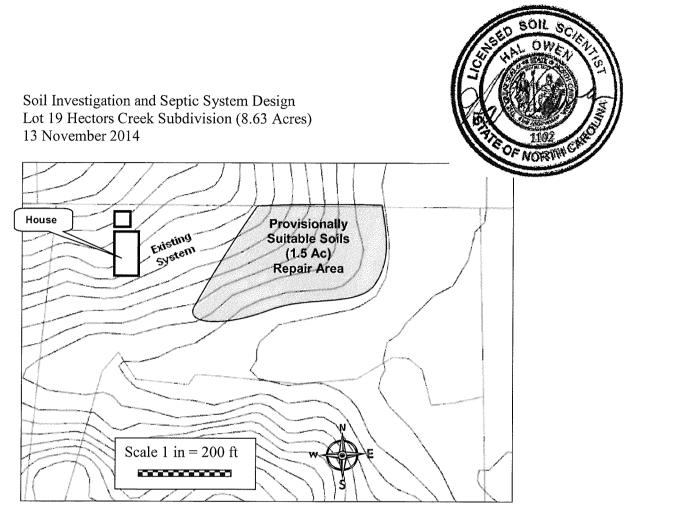


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Sincerely, Hal Owa

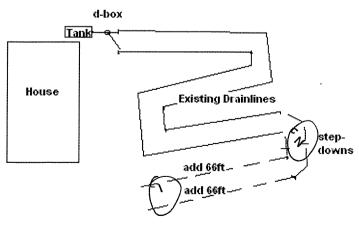
Hal Owen Licensed Soil Scientist

- REPAIR COULD USE PUMp-- REPAIR COULD USE PUMp-UNHANIA POL JOVENSFO AND IONER CAMPERTO DUNCH SAED - Have Home + Two Bonnes Rooms:= 5 BAM - only Finish onk? Detached Gamage Connet to Septic Syste? ZISM minuten Hat would be 7total? WATCH Flow from Detroled Grange NOT CHECKEef or Mentined Inter The Report



Modify the existing system as shown in the diagram below (drawing not to scale)

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Soil Science Investigations • Wetland Delineations, Permitting, and Consulting