



North Carolina State Laboratory of Public Health
Environmental Sciences
Microbiology
Certificate of Analysis

4312 District Drive
 MSC 1918
 Raleigh, NC 27699-1918

http://slph.ncpublichealth.com
 Phone: 919-733-7308
 Fax: 919-715-8611

FINAL REPORT

Report to: James E Manhart III

Name of System:

HARNETT CO ENVIRONMENTAL HEALTH
 307 CORNELIUS HARNETT BLVD
 Lillington, NC 27546

Baxter Hobbs
 3266 McNeill Hobbs Rd
 Bunnlevel, NC 28323

EIN: 566000306EH

Delivery: NC Courier

Harnett County

StarLiMS ID: **ES190116-0094**

Date Collected: 01/15/2019

Time Collected: 11:00

By: James E Manhart III

Date Received: 01/16/2019

Time Received: 08:49

By: Angela Heybroek

Sample Source: Well water

Sampling Point: Outside spigot

Sample Type:

GPS No.

Treatment:

Well Permit No.

Comment:

Colilert Profile

Method: SM 9223B

Analyte	Test Result	Unit	Conclusion	Date Tested
Total Coliform	Absent			01/16/2019
E. coli	Absent			01/16/2019

Report Date: 01/18/2019

Reported By: Susan Beasley

Explanations of Coliform Analysis:

If coliform bacteria are **Absent**, the water is considered safe for drinking purpose. If coliform bacteria are **Present**, the water is considered unsafe for drinking purpose. Presence of *E. coli* (bacteria) generally indicates that the water has been contaminated with fecal material. It must be remembered that a water analysis refers only to the sample received and should not be regarded as a complete report on the water supply.

North Carolina Division of Public Health
Occupational and Environmental Epidemiology Branch, Epidemiology Section
BIOLOGICAL ANALYSIS REPORT

Private well water information and recommendations

County: HAYWOOD Name: Barkett bbs Sample ID Number: ES 50116 - 0854
Location: 326 Mineral Hills Rd. Bunker NC. 28523 Reviewer Justin Botkin

Initial Sample / Confirmation Sample

BIOLOGICAL ANALYSIS RESULTS AND RECOMMENDATIONS FOR USES OF YOUR PRIVATE WELL WATER (These recommendations are based on biological analysis only.)

 / No coliform bacteria were found in your well water. Your water can be used for all purposes including drinking, cooking, washing dishes, bathing and showering.

 Total coliform bacteria were detected in the sample which indicates that harmful bacteria from human or animal waste could enter the well. Do not use the water for drinking or cooking unless it has been boiled for 3 minutes. You may use your water for all other purposes including washing dishes, bathing or showering.

 Your well water needs to be re-tested to verify that the result is accurate.

 Fecal coliform bacteria were detected in the sample. Do not use the water for drinking, cooking, washing dishes, bathing or showering.

If the re-test shows contamination by bacteria contact your local health department for assistance. There may be a problem with the construction of the well, the groundwater source, or operation of the well. The well needs to be inspected by the local health department or a local well contractor to determine the problem with the well and to give guidance on how to correct the problem.

Your well water was tested for biological contaminants (total coliform and fecal coliform bacteria). The results were evaluated using the federal drinking water standards.

Drinking water may contain substances that can occur naturally in water or can be introduced into water from man-made sources. Total coliform bacteria are found in soil and fecal coliform bacteria are found in animal and human waste. Total coliform or fecal coliform bacteria in well water indicate that the well may have structural problems or that the well was not properly disinfected.

If you have been drinking the well water and are pregnant, nursing, have a child in the household under 5 years of age, or immunocompromised (such as an individual with AIDS, cancer, hepatitis, dialysis or surgical procedures) inform your physician of these results at your next visit.

If the contamination continues, you should investigate the possibility of drilling a new well or installing a point-of-entry disinfection unit which can use chlorine, ultraviolet light, or ozone.

For further information please contact your county health department or the Occupational and Environmental Epidemiology Branch at 919-707-5900.



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FINAL REPORT

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HARNETT CO ENVIRONMENTAL HEALTH
 307 CORNELIUS HARNETT BLVD
 LILLINGTON, NC 27546

Name of System:

Baxter Hobbs
 3266 Mcdowell Hobbs Rd.
 Bunnlevel, NC 28323

EIN: 566000306EH

Delivery: NC Courier

Harnett County

StarLiMS ID: **ES190116-0114-001**

Date Collected: 01/15/2019

Time Collected: 10:00

By: **James Manhart**

Sample ID: **190025**

Date Received: 01/16/2019

Time Received: 08:50

By: **Marty Nicholson**

Sample Type:

Sampling Point:

Well Permit #

Sample Source: Well water

Temp. at Receipt: 4.5 °C

GPS #

Comment:

PESTICIDES Profile

Method: EPA 508

Analyte	Test Result	Reporting Limit	Unit	Qualifier(s)
Hexachlorocyclopentadiene	Not Detected	0.1	ug/L	
Propachlor	Not Detected	0.1	ug/L	
Trifluralin	Not Detected	0.1	ug/L	
Hexachlorobenzene	Not Detected	0.1	ug/L	
Lindane	Not Detected	0.1	ug/L	
Heptachlor	Not Detected	0.1	ug/L	
Aldrin	Not Detected	0.1	ug/L	
Heptachlor epoxide	Not Detected	0.1	ug/L	
Dieldrin	Not Detected	0.1	ug/L	
Endrin	Not Detected	0.1	ug/L	
Methoxychlor	Not Detected	0.1	ug/L	
Chlordane	Not Detected	0.1	ug/L	
Toxaphene	Not Detected	0.1	ug/L	

Report Date: 01/24/2019

Reported By: James Parrish



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Baxter Hobbs

307 CORNELIUS HARNETT BLVD

3266 McNeill Hobbs Rd.

LILLINGTON, NC 27546

Bunnlevel, NC 28323

EIN: 566000306EH

Delivery: NC Courier

Harnett County

StarLiMS ID: **ES190116-0166-001**

Date Collected: 01/15/2019

Time Collected: 10:00

By: **James Manhart**

Sample ID: **190028**

Date Received: 01/16/2019

Time Received: 12:44

By: **Marty Nicholson**

Sample Type:

Sampling Point:

Well Permit #

Sample Source: Well water

Temp. at Receipt: 4.5 °C

GPS #

Comment:

PETROLEUM Profile

Method: Default

Analyte	Test Result	Reporting Limit	Unit	Qualifier(s)
Petroleum	No Petroleum Products identified		N/A	
Dichlorodifluoromethane	Not Detected	0.50	ug/L	
Chloromethane	Not Detected	0.50	ug/L	
Vinyl chloride	Not Detected	0.50	ug/L	
Chloroethane	Not Detected	0.50	ug/L	
Trichlorofluoromethane	Not Detected	0.50	ug/L	
Acetone	Not Detected	0.50	ug/L	
1,1-Dichloroethene	Not Detected	0.50	ug/L	
Methylene chloride	Not Detected	0.50	ug/L	
Acrylonitrile	Not Detected	0.50	ug/L	
Carbon Disulfide	Not Detected	0.50	ug/L	
trans-1,2-Dichloroethene	Not Detected	0.50	ug/L	
MTBE	Not Detected	0.50	ug/L	
1,1-Dichloroethane	Not Detected	0.50	ug/L	
cis-1,2-Dichloroethene	Not Detected	0.50	ug/L	
Isopropyl Ether	Not Detected	0.50	ug/L	
2-Butanone (MEK)	Not Detected	0.50	ug/L	
Bromochloromethane	Not Detected	0.50	ug/L	
2,2-Dichloropropane	Not Detected	0.50	ug/L	
Chloroform	Not Detected	0.50	ug/L	
Tetrahydrofuran	Not Detected	0.50	ug/L	
1,1,1-Trichloroethane	Not Detected	0.50	ug/L	
1,1-Dichloropropene	Not Detected	0.50	ug/L	
Carbon Tetrachloride	Not Detected	0.50	ug/L	



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Time Collected: 10:00

By: **James Manhart**

Sample ID: **190028**

Date Received: 01/16/2019

Time Received: 12:44

By: **Marty Nicholson**

Sample Type:

Sampling Point:

Well Permit #

Sample Source: Well water

Temp. at Receipt: 4.5 °C

GPS #

Comment:

Benzene	Not Detected	0.50	ug/L
1,2-Dichloroethane	Not Detected	0.50	ug/L
Trichloroethene	Not Detected	0.50	ug/L
1,2-Dichloropropane	Not Detected	0.50	ug/L
Dibromomethane	Not Detected	0.50	ug/L
4-Methyl-2-pentanone	Not Detected	0.50	ug/L
Bromodichloromethane	Not Detected	0.50	ug/L
cis-1,3-Dichloropropene	Not Detected	0.50	ug/L
Toluene	Not Detected	0.50	ug/L
trans-1,3-Dichloropropene	Not Detected	0.50	ug/L
1,1,2-Trichloroethane	Not Detected	0.50	ug/L
1,3-Dichloropropane	Not Detected	0.50	ug/L
Tetrachloroethene	Not Detected	0.50	ug/L
Dibromochloromethane	Not Detected	0.50	ug/L
2-Hexanone	Not Detected	0.50	ug/L
1,2-Dibromoethane(EDB)	Not Detected	0.50	ug/L
Chlorobenzene	Not Detected	0.50	ug/L
1,1,1,2-Tetrachloroethane	Not Detected	0.50	ug/L
Ethylbenzene	Not Detected	0.50	ug/L
m&p-xylene	Trace	1.0	ug/L
o-Xylene	Not Detected	0.50	ug/L
Styrene	Not Detected	0.50	ug/L
Bromoform	Not Detected	0.50	ug/L
Isopropylbenzene	Not Detected	0.50	ug/L
1,1,2,2-Tetrachloroethane	Not Detected	0.50	ug/L
1,2,3-Trichloropropane	Not Detected	0.50	ug/L
Bromobenzene	Not Detected	0.50	ug/L
n-Propylbenzene	Not Detected	0.50	ug/L



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Harnett County

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Date Collected: 01/15/2019

Time Collected: 10:00

By: James Manhart

Sample ID: 190028

Date Received: 01/16/2019

Time Received: 12:44

By: Marty Nicholson

Sample Type:

Sampling Point:

Well Permit #

Sample Source: Well water

Temp. at Receipt: 4.5 °C

GPS #

Comment:

2-Chlorotoluene	Not Detected	0.50	ug/L
4-Chlorotoluene	Not Detected	0.50	ug/L
1,3,5-Trimethylbenzene	Not Detected	0.50	ug/L
tert-Butylbenzene	Not Detected	0.50	ug/L
1,2,4-Trimethylbenzene	Not Detected	0.50	ug/L
sec-Butylbenzene	Not Detected	0.50	ug/L
1,4-Dichlorobenzene	Not Detected	0.50	ug/L
1,3-Dichlorobenzene	Not Detected	0.50	ug/L
4-Isopropyltoluene	Not Detected	0.50	ug/L
1,2-Dichlorobenzene	Not Detected	0.50	ug/L
n-Butylbenzene	Not Detected	0.50	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	Not Detected	0.50	ug/L
1,2,4-Trichlorobenzene	Not Detected	0.50	ug/L
Naphthalene	Not Detected	0.50	ug/L
Hexachlorobutadiene	Not Detected	0.50	ug/L
1,2,3-Trichlorobenzene	Not Detected	0.50	ug/L
Total Xylenes	Trace	0.50	ug/L



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Harnett County

StarLiMS ID: **ES190116-0166-002**

Date Collected: 05/17/2017

Time Collected: 00:01

By: **KMN**

Sample ID: **190029**

Date Received: 01/16/2019

Time Received: 12:44

By: **Marty Nicholson**

Sample Type:

Sampling Point:

Well Permit #

Sample Source: Trip Blank

Temp. at Receipt: 4.5 °C

GPS #

Comment:

VOCs Profile

Method: EPA 524.2

Analyte	Test Result	Reporting Limit	Unit	Qualifier(s)
Dichlorodifluoromethane	Not Detected	0.50	ug/L	
Chloromethane	Not Detected	0.50	ug/L	
Vinyl chloride	Not Detected	0.50	ug/L	
Chloroethane	Not Detected	0.50	ug/L	
Trichlorofluoromethane	Not Detected	0.50	ug/L	
Acetone	Not Detected	0.50	ug/L	
1,1-Dichloroethene	Not Detected	0.50	ug/L	
Methylene chloride	Not Detected	0.50	ug/L	
Acrylonitrile	Not Detected	0.50	ug/L	
Carbon Disulfide	Not Detected	0.50	ug/L	
trans-1,2-Dichloroethene	Not Detected	0.50	ug/L	
MTBE	Not Detected	0.50	ug/L	
1,1-Dichloroethane	Not Detected	0.50	ug/L	
cis-1,2-Dichloroethene	Not Detected	0.50	ug/L	
Isopropyl Ether	Not Detected	0.50	ug/L	
2-Butanone (MEK)	Not Detected	0.50	ug/L	
Bromochloromethane	Not Detected	0.50	ug/L	
2,2-Dichloropropane	Not Detected	0.50	ug/L	
Chloroform	Not Detected	0.50	ug/L	
Tetrahydrofuran	Not Detected	0.50	ug/L	
1,1,1-Trichloroethane	Not Detected	0.50	ug/L	
1,1-Dichloropropene	Not Detected	0.50	ug/L	
Carbon Tetrachloride	Not Detected	0.50	ug/L	
Benzene	Not Detected	0.50	ug/L	
1,2-Dichloroethane	Not Detected	0.50	ug/L	



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Date Collected: 05/17/2017

Time Collected: 00:01

By: **KMN**

Sample ID: **190029**

Date Received: 01/16/2019

Time Received: 12:44

By: **Marty Nicholson**

Sample Type:

Sampling Point:

Well Permit #

Sample Source: Trip Blank

Temp. at Receipt: 4.5 °C

GPS #

Comment:

Trichloroethene	Not Detected	0.50	ug/L
1,2-Dichloropropane	Not Detected	0.50	ug/L
Dibromomethane	Not Detected	0.50	ug/L
4-Methyl-2-pentanone	Not Detected	0.50	ug/L
Bromodichloromethane	Not Detected	0.50	ug/L
cis-1,3-Dichloropropene	Not Detected	0.50	ug/L
Toluene	Not Detected	0.50	ug/L
trans-1,3-Dichloropropene	Not Detected	0.50	ug/L
1,1,2-Trichloroethane	Not Detected	0.50	ug/L
1,3-Dichloropropane	Not Detected	0.50	ug/L
Tetrachloroethene	Not Detected	0.50	ug/L
Dibromochloromethane	Not Detected	0.50	ug/L
2-Hexanone	Not Detected	0.50	ug/L
1,2-Dibromoethane(EDB)	Not Detected	0.50	ug/L
Chlorobenzene	Not Detected	0.50	ug/L
1,1,1,2-Tetrachloroethane	Not Detected	0.50	ug/L
Ethylbenzene	Not Detected	0.50	ug/L
m&p-xylene	Not Detected	1.0	ug/L
o-Xylene	Not Detected	0.50	ug/L
Styrene	Not Detected	0.50	ug/L
Bromoform	Not Detected	0.50	ug/L
Isopropylbenzene	Not Detected	0.50	ug/L
1,1,2,2-Tetrachloroethane	Not Detected	0.50	ug/L
1,2,3-Trichloropropane	Not Detected	0.50	ug/L
Bromobenzene	Not Detected	0.50	ug/L
n-Propylbenzene	Not Detected	0.50	ug/L
2-Chlorotoluene	Not Detected	0.50	ug/L
4-Chlorotoluene	Not Detected	0.50	ug/L



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EIN: 566000306EH

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Harnett County

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Sample ID: **190029**

Date Collected: 05/17/2017

Date Received: 01/16/2019

Time Collected: 00:01

Time Received: 12:44

By: **KMN**

By: **Marty Nicholson**

Sample Type:

Sample Source: Trip Blank

Sampling Point:

Temp. at Receipt: 4.5 °C

Well Permit #

GPS #

Comment:

1,3,5-Trimethylbenzene	Not Detected	0.50	ug/L
tert-Butylbenzene	Not Detected	0.50	ug/L
1,2,4-Trimethylbenzene	Not Detected	0.50	ug/L
sec-Butylbenzene	Not Detected	0.50	ug/L
1,4-Dichlorobenzene	Not Detected	0.50	ug/L
1,3-Dichlorobenzene	Not Detected	0.50	ug/L
4-Isopropyltoluene	Not Detected	0.50	ug/L
1,2-Dichlorobenzene	Not Detected	0.50	ug/L
n-Butylbenzene	Not Detected	0.50	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	Not Detected	0.50	ug/L
1,2,4-Trichlorobenzene	Not Detected	0.50	ug/L
Naphthalene	Not Detected	0.50	ug/L
Hexachlorobutadiene	Not Detected	0.50	ug/L
1,2,3-Trichlorobenzene	Not Detected	0.50	ug/L
Total Xylenes	Not Detected	0.50	ug/L

Report Date: 01/24/2019

Reported By: James Parrish



Private Well Information and Use Recommendations For Inorganic Chemical Contaminants

County: HARNETT

Name: Brady Haddis

Sample ID #: ES F0116-0094

Reviewer: Josie Bentley

TEST RESULTS AND USE RECOMMENDATIONS

1. Your well water meets federal drinking water standards *for inorganic chemicals*. Your water can be used for drinking, cooking, washing, cleaning, bathing, and showering based on the ***inorganic chemical results only***. You may have other water sampling results that are not taken into account in this report.
2. The following substance(s) exceeded federal drinking water standards or the North Carolina 2L calculated health levels. The North Carolina Division of Public Health recommends that your well water not be used for drinking and cooking, unless you install a water treatment system to remove the circled substance(s). However, it may be used for washing, cleaning, bathing and showering based on the ***inorganic chemical results only***.

Arsenic	Barium	Cadmium	Chromium	Copper	Fluoride	Lead	Iron	
Manganese	Mercury	Nitrate/Nitrite	Selenium	Silver	Magnesium	Zinc	pH	

3. a. Sodium levels exceed the U.S. Environmental Protection Agency's (USEPA) Health Advisory level for sodium of 20 mg/l. The North Carolina Division of Public Health recommends that only individuals on no or low sodium restricted diets not use this water for drinking or cooking. It may be used for washing, cleaning, bathing, and showering based on the ***inorganic chemical results only***.
 - b. Levels over 30 mg/l may pose aesthetic problems such as bad taste, odor, staining of porcelain, etc.
4. Re-sampling is recommended in _____ months.
5. Re-sample for lead and /or copper. Take a first draw, 5 minute, and 15 minute sample inside the house (preferably the kitchen) and if possible a first draw, 5 minute and a 15 minute sample at the well head to determine the source of the lead and/or copper.
6. The following substance(s) exceeded federal drinking water standards. Your water can be used for drinking, cooking, washing, cleaning, bathing, and showering based on the ***inorganic chemical results only***, but aesthetic problems such as bad taste, odor, staining of porcelain, etc. may occur. You may want to install a household water treatment system to address aesthetic problems.

Barium	Cadmium	Chromium	Fluoride	Iron	Magnesium
Manganese	Selenium	Silver	pH	Zinc	

For more information regarding your well water results, please call the North Carolina Division of Public Health at 919-707-5900.