

**North Carolina State Laboratory of Public Health**  
**Department of Health and Human Services**  
**P. O. Box 28047 -- 306 N. Wilmington St. -- Raleigh, N. C. 27611-8047**

**INORGANIC CHEMICAL ANALYSIS - PRIVATE WATER SYSTEM**

**Name of System:** White, Charles

**Source of Water:**

**Address:** 894 Wilson Dr  
Cameron, NC

**Zip:** 28326

**Source of Sample:**

**Type of Sample:**

**County:** HARNETT

**Type of Treatment:**

**Report To:** Harnett Co. Health Dept.  
307 Cornelius Harnett Blvd.  
Lillington, NC 27546

**ATTN:** Bryan McSwain  
(910) 893-7547

**Type of Analysis:** Private

**Courier:** 14-73-01

**Collected By:** B MCSWAIN

**Date:** 9/15/2008

**Time:** 2:35:00 PM

**Location of sampling point:** Spigot at well

**Remarks:** Permit # 06-5-14314

Parameters	Results	Units	Date Analyzed:
Silver	<0.05	mg/l	9/16/2008
Alkalinity as CaCO <sub>3</sub>	88	mg/l	9/16/2008
Arsenic	0.013	mg/l	9/16/2008
Barium	0.2	mg/l	9/16/2008
Calcium	15.3	mg/l	9/16/2008
Cadmium	<0.001	mg/l	9/16/2008
Chromium	<0.01	mg/l	9/16/2008
Copper	<0.05	mg/l	9/16/2008
Fluoride	0.32	mg/l	9/16/2008
Iron	0.64	mg/l	9/16/2008
Hardness as CaCO <sub>3</sub> (Ca,Mg)	51	mg/l	9/16/2008
Mercury	<0.0005	mg/l	9/16/2008
Magnesium	3.0	mg/l	9/16/2008
Manganese	0.06	mg/l	9/16/2008
Sodium	19	mg/l	9/16/2008
Nitrite as N	<0.10	mg/l	9/16/2008
Nitrate as N	<1.0	mg/l	9/16/2008
Lead	<0.005	mg/l	9/16/2008
pH	7.3	Std. units	9/16/2008
Selenium	<0.005	mg/l	9/16/2008
Zinc	<0.05	mg/l	9/16/2008

OCT 06 2008

**Date Received:** 9/16/2008

**Report Date:** 10/1/2008

**Reported By:** *Debra Moncol*

**Today's Date:** 10/1/2008

**Ref:** 12762

**Login Batch:** 08090043

**Sample Number:** AB78239

## Explanations

### Coliform Analysis:

If coliform bacteria are Absent, the water is considered safe for drinking purposes. If coliform bacteria are Present, the water is considered unsafe for drinking purposes. 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.

### Inorganic Analysis:

Recommended limits for drinking water. Sample should not exceed levels listed below.

Alkalinity	No established limits	Iron	0.30 mg/l
Arsenic	0.01 mg/l	Lead	0.015 mg/l
Calcium	No established limits	Magnesium	No established limits
Chloride	250 mg/l	Manganese	0.05 mg/l
Copper	1.3 mg/l	Nitrate	10 mg/l (as N)
Fluoride	4 mg/l	Nitrite	1.0 mg/l (as N)
Hardness	No established limits	pH	Not less than 6.5 units
		Zinc	5.0 mg/l

**COLIFORM ANALYSIS - PRIVATE WATER SUPPLY**

**Name of Owner or Tenant:** White, Charles **County:** Harnett  
**Address:** 894 Wilson Dr Cameron, NC **ZIP:** 28326  
**Source:** Well **Type of Sampling Point:** Spigot at well  
**Collected By:** BM **Date:** 9/15/2008 **Time:** 2:35 PM  
**Signed By:** McSwain, Bryan **Analysis Type:** Private

**Report To:** Harnett Co. Health Dept.  
307 Cornelius Harnett Blvd.  
Lillington, NC 27546 (910) 893-7547

**BACTERIOLOGIC ANALYSIS**

<u>CONTAMINANTS</u>	<u>RESULT</u>
Total Coliform (ColilertRoutine)	Present
Fecal/E. coli	Absent

**Sample No:** AB12703 **Date Received:** 9/16/2008 **Time Received:** 9:00:00 AM  
**Date Reported:** 9/17/2008 **Today's Date:** 9/17/2008  
**Comments:** New well permit # 06-5-14314

*J. Beasley*

Harnett Co. Health Dept.  
ATTN: McSwain, Bryan  
307 Cornelius Harnett Blvd.  
Lillington, NC 27546

**Courier 14-73-01**

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SEP 19 2008

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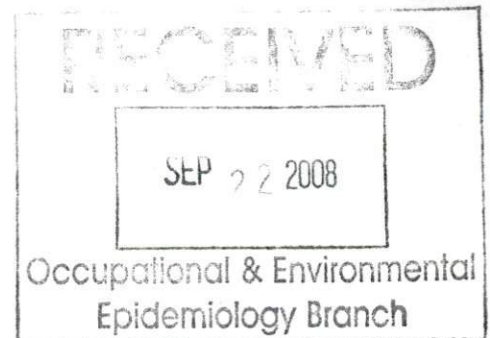
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**Type of Analysis:** Private

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 SEP 16 2008  
 Occupational & Environmental Health

**Date Received:** 9/16/2008

**Report Date:** 10/1/2008

**Reported By:** \_\_\_\_\_

**Today's Date:** 10/1/2008

**Ref:** 12762

**Login Batch:** 08090043

**Sample Number:** AB78239

**Information and Recommendations for Uses of Private Well Water  
For Biological Contaminants Found in Water**  
North Carolina Occupational and Environmental Epidemiology Branch (OEEB)  
For Additional Advice and Information call 919-707-5900

Name: White

County: Harnett

Sample Identification Number: AB12703

**Information on Your Private Well Water**

Your well water was laboratory tested for biological contaminants (total coliform and fecal coliform bacteria). Total coliform bacteria are found in soil and fecal coliform bacteria are found in animal and human waste. The presence of total coliform or fecal coliform bacteria in well water indicates that the well may have structural deficiencies or that the well was not properly disinfected.

**Recommendations for Uses of Your Private Well Water**

No coliform bacteria were found in your well water. Therefore, your water could be used for drinking, cooking, washing dishes, bathing, and showering.

Total coliform and/or fecal coliform bacteria were detected in the resample which indicate that pathogenic bacteria from human or animal waste could possibly enter the well. There may be a problem with the construction of the well, the water source, or operation of the well. The water may not be safe. **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 the results.** 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. You should resample your water after proper well inspection and disinfection to make certain that the problem does not recur. If the contamination is a recurring problem, you should investigate the feasibility of drilling a new well or installing a point-of-entry disinfection unit which can use chlorine, ultraviolet light, or ozone.

Do not use the water for drinking, cooking, washing dishes, bathing, or showering unless you boil it for at least one minute.

Other Comments

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**Information and Recommendations for Uses of New Private Wells**  
 North Carolina Occupational and Environmental Epidemiology Branch (OEEB)  
 For Additional Advice and Information call 919-707-5900

Name: White County: Harnett

Sample Identification Number: AB78239

**Information on Your Private Well Water**

Your well water was laboratory tested for chemical contaminants listed in table below. Drinking water may contain chemical contaminants which can occur naturally or be introduced into water from man-made sources. In order to evaluate your laboratory results for chemical contaminants, your water results were compared to the EPA national primary drinking water standards or maximum contaminant levels (MCLs) (see website for basis for each MCL at <http://www.epa.gov/safewater/contaminants/index.html#mcls>). MCLs are national drinking water standards that are required to be met by municipal water supplies. If no MCL was available, then your well water levels were compared to North Carolina 2L Groundwater Standards. If the concentrations found in your well are greater than these levels, you should not use your water for drinking or cooking. Alternatively, you could install a water treatment or filtration device or use another source of drinking water such as bottled water or municipal water. Your well water was also laboratory tested for biological contaminants (total coliform and fecal coliform bacteria). Total coliform bacteria are found in soil and fecal coliform bacteria are found in animal and human waste. The presence of coliform or fecal coliform bacteria in well water indicates that the well may have structural deficiencies or that the well was not properly disinfected.

**Your Well Water Results Compared to MCLs**

	<b>Your Well Water Results</b>	<b>MCLs</b>
Arsenic	0.013	0.01 mg/L
Barium		2 mg/L
Cadmium		0.005 mg/L
Chromium (total III and VI)		0.1 mg/L
Copper		1.3 mg/L
Fluoride		4 mg/L
Lead		0.015 mg/L
Iron*		0.3 mg/L
Magnesium		100 mg/L and higher
Manganese*		0.05 mg/L
Mercury		0.002 mg/L
Total Nitrate and Nitrite (as nitrogen)		10 mg/L
Nitrite (as nitrogen)		1 mg/L
Selenium		0.05 mg/L
Silver*		0.02 mg/L
Sodium		20 mg/L
Zinc		5 mg/L
		Desired range of 6.5-8.5
Total coliform bacteria		In order to protect public health, coliform and fecal coliform bacteria should not be present.
Fecal coliform bacteria		

\* If the EPA MCL was not available (<http://www.epa.gov/safewater/contaminants/index.html#mcls>), then the North Carolina 2L Groundwater Standards were utilized.



# Information and Recommendations for Uses of New Private Well Water For Inorganic Chemicals Found in Water

North Carolina Occupational and Environmental Epidemiology Branch (OEEB)  
For Additional Advice and Information call 919-707-5900

Name: White

## Information on Your Private Well Water

Your well water was laboratory tested for inorganic chemicals. Drinking water may contain inorganic chemicals such as arsenic and manganese that can occur naturally in water or lead that could be introduced into water from man-made sources. In order to evaluate your laboratory results for chemical contaminants, your water results were compared to the national primary drinking water standards or maximum contaminant levels (MCLs) (see website for basis for each MCL at <http://www.epa.gov/safewater/contaminants/index.html#mcls>). MCLs are national drinking water standards that are required to be met by municipal water supplies. If an MCL was not available, your water results were compared to the health based North Carolina 2L Groundwater Standards.

## Recommendations for Uses of Your Private Well Water

The concentrations found in your well water do not exceed the recommended EPA levels.

Contaminant concentrations found in your well water are higher than the EPA recommended levels for drinking and cooking. These contaminants include \_\_\_\_\_

Arsenic

**Your well water should not be used for drinking or cooking. If you have been drinking the well water and are pregnant, nursing, or under 5 years of age, inform your physician of the results. Very little absorption is expected through intact skin. However, having open wounds or burns could result in a greater absorption of these chemicals. Therefore, if you have open wounds or burns on your skin, limit showering and bathing time to under 5 minutes.**

You may want to purchase a water treatment device, drill a new well that is distantly located from the groundwater contamination, use bottled water, or connect to a public water supply.

Resampling is recommended in \_\_\_\_\_ months.

Resample for lead. 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.

## Other Comments

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