



North Carolina State Laboratory of Public Health  
 Environmental Sciences  
 Inorganic Chemistry  
 Certificate of Analysis

P.O. Box 28047  
 306 N. Wilmington St.  
 Raleigh, NC 27611-8047  
<http://slph.ncpublichealth.com>  
 Phone: 919-733-7834  
 Fax: 919-733-8695

Report To: **BRYAN McSWAIN**

Name of System:

**HARNETT CO ENVIRONMENTAL HEALTH**

**MARK K. MEREDITH**

**307 CORNELIUS HARNETT BLVD  
 LILLINGTON, NC 27546  
 EIN: 566000306EH**

Courier # 14-73-01

**8374 MCDUGALD RD.  
 LILLINGTON, NC 27546**

StarLiMS ID: **ES091411-0031001**

Date Collected: 09/13/11

Time Collected: 2:25 PM

Date Received: 09/14/11

Collected By: Bryan McSwain

Sample Type:  
 Sample Source: New Well

Sampling Point: Spigot @ house  
 Temp. at Receipt:

Well Permit #: 11-5-27494  
 GPS #:

Sample Description:

Comment: Nitrate sample leaked in transit.

**New Well I (Profile)**

Analyte	Result	Allowable Limit	Unit	Qualifier(s)
Arsenic	0.127	0.010	mg/L	
Barium	< 0.1	2.00	mg/L	
Cadmium	< 0.001	0.005	mg/L	
Calcium	76		mg/L	
Chloride	56.00	250	mg/L	
Chromium	< 0.01	0.10	mg/L	
Copper	0.37	1.3	mg/L	
Fluoride	0.27	2.00	mg/L	
Iron	1.90	0.30	mg/L	
Lead	0.011	0.015	mg/L	
Magnesium	7		mg/L	
Manganese	0.07	0.05	mg/L	
Mercury	< 0.0005	0.002	mg/L	
Nitrate	Unsatisfactory	10.00	mg/L	
Nitrite	Unsatisfactory	1.00	mg/L	
pH	8.1		N/A	
Selenium	< 0.005	0.05	mg/L	
Silver	< 0.05	0.10	mg/L	
Sodium	22.00		mg/L	
Sulfate	< 5.00	250	mg/L	
Total Alkalinity	200		mg/L	
Total Hardness	220		mg/L	
Zinc	0.05	5.00	mg/L	

Report Date: 09/23/2011

Reported By: Mike King



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Report To: **BRYAN McSWAIN**  
**HARNETT CO ENVIRONMENTAL HEALTH**

Name of System:  
**MARK K. MEREDITH**

**307 CORNELIUS HARNETT BLVD**  
**LILLINGTON, NC 27546**  
**EIN: 566000306EH**

**Courier # 14-73-01**

**8374 MCDOUGALD RD.**  
**LILLINGTON, NC 27546**

StarLiMS ID: **ES101311-0100001**

Date Collected: 10/12/11

Time Collected: 11:32 AM

Date Received: 10/13/11

Collected By: Bryan McSwain

Sample Type: Raw  
Sample Source: Ground

Sampling Point: Spigot at house  
Temp. at Receipt: 6.5

Well Permit #: **11-5-27494**  
GPS #:

Sample Description:  
Comment:

**Nitrate\_Nitrite (Profile)**

Analyte	Result	Allowable Limit	Unit	Qualifier(s)
Nitrate	< 1.00	10.00	mg/L	
Nitrite	< 0.10	1.00	mg/L	

Report Date: 10/25/2011

Reported By: Debbie Moncol

North Carolina  
Public Health

North Carolina Division of Public Health  
Occupational and Environmental Epidemiology Branch, Epidemiology Section  
**INORGANIC CHEMICAL ANALYSIS REPORT**  
Private well water information and recommendations

County: Harnett Name: Meredith Sample Id Number: 31001  
Location: \_\_\_\_\_ Reviewer: KMR

**ANALYSIS REPORT**

Your well water was tested for 15 metals, plus nitrates, nitrites, and pH. The results were evaluated using the federal drinking water standards. The pH is a measure of the acidity of the water. Drinking water may contain substances that can occur naturally in water or can be introduced into the water from manmade sources.

**TEST RESULTS AND USE RECOMMENDATIONS**

Your well water meets federal drinking water standards. Your water can be used for drinking, cooking, washing, cleaning, bathing, and showering.

The following substance(s) exceeded federal drinking water standards. Your water can be used for drinking, cooking, washing, cleaning, bathing, and showering, 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	Sodium	Zinc	pH

The following substance(s) exceeded federal drinking water standards. We recommend 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.

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

Re-sampling is recommended in \_\_\_\_\_ months.

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.

**OTHER CONSIDERATIONS**

Routine well water sampling for the above substances is recommended every two to three years. Sample your well water when there is a known problem or contamination in your area, after repairs or replacement of your well, or after a flooding event. Contact your local health department for sampling instructions.

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



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Report To: BRYAN McSWAIN

Name of System:

HARNETT CO ENVIRONMENTAL HEALTH

MARK K. MEREDITH

307 CORNELIUS HARNETT BLVD  
LILLINGTON, NC 27546  
EIN: 566000306EH

Courier # 14-73-01

8374 MCDUGALD RD.  
LILLINGTON, NC 27546

StarLiMS ID: ES120611-0002001

Date Collected: 12/05/11

Time Collected: 11:06 AM

Date Received: 12/06/11

Collected By: Bryan McSwain

Sample Type: Raw  
Sample Source: Ground

Sampling Point: Spigot @ well  
Temp. at Receipt:

Well Permit #: 11-5-27494  
GPS #:

Sample Description:  
Comment:

Inorganic Chemical I (Profile)

Analyte	Result	Allowable Limit	Unit	Qualifier(s)
Arsenic	0.006	0.010	mg/L	
Barium	0.1	2.00	mg/L	
Cadmium	< 0.001	0.005	mg/L	
Calcium	20		mg/L	
Chloride	< 5.00	500	mg/L	
Chromium	< 0.01	0.10	mg/L	
Copper	< 0.05	1.3	mg/L	
Fluoride	0.26	4.00	mg/L	
Iron	0.82	0.30	mg/L	
Lead	0.006	0.015	mg/L	
Magnesium	7		mg/L	
Manganese	0.10	0.05	mg/L	
pH	7.0		N/A	
Selenium	< 0.005	0.05	mg/L	
Silver	< 0.05	0.10	mg/L	
Sodium	4.90		mg/L	
Sulfate	< 5.00	250	mg/L	
Total Alkalinity	90		mg/L	
Total Hardness	79		mg/L	
Zinc	< 0.05	5.00	mg/L	

Report Date: 12/19/2011

Reported By: Mike King

North Carolina Division of Public Health  
Occupational and Environmental Epidemiology Branch, Epidemiology Section  
**INORGANIC CHEMICAL ANALYSIS REPORT**  
Private well water information and recommendations

County: Harnett Name: Meredith Sample Id Number: 2001  
Location: \_\_\_\_\_ Reviewer: KMP

**ANALYSIS REPORT**

Your well water was tested for 15 metals, plus nitrates, nitrites, and pH. The results were evaluated using the federal drinking water standards. The pH is a measure of the acidity of the water. Drinking water may contain substances that can occur naturally in water or can be introduced into the water from manmade sources.

**TEST RESULTS AND USE RECOMMENDATIONS**

Your well water meets federal drinking water standards. Your water can be used for drinking, cooking, washing, cleaning, bathing, and showering.

The following substance(s) exceeded federal drinking water standards. Your water can be used for drinking, cooking, washing, cleaning, bathing, and showering, 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	<u>Iron</u>	Magnesium
<u>Manganese</u>	Selenium	Silver	Sodium	Zinc	pH

The following substance(s) exceeded federal drinking water standards. We recommend 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.

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

Re-sampling is recommended in \_\_\_\_\_ months.

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.

**OTHER CONSIDERATIONS**

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