



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

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Report To: **BRYAN McSWAIN**

Name of System:

HARNETT CO ENVIRONMENTAL HEALTH

DOUGLAS WAYNE MANGUM

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

Courier # 14-73-01

**132 TRENT DR
 CAMERON, NC 28326**

StarLiMS ID: **ES091411-0030001**

Date Collected: 09/13/11

Time Collected: 2:00 PM

Date Received: 09/14/11

Collected By: Bryan McSwain

Sample Type:
 Sample Source: New Well

Sampling Point: Spigot @ well
 Temp. at Receipt: 8.5

Well Permit #: 11-5-27379
 GPS #:

Sample Description:
 Comment:

New Well I (Profile)

Analyte	Result	Allowable Limit	Unit	Qualifier(s)
Arsenic	< 0.005	0.010	mg/L	
Barium	0.1	2.00	mg/L	
Cadmium	< 0.001	0.005	mg/L	
Calcium	14		mg/L	
Chloride	< 5.00	250	mg/L	
Chromium	< 0.01	0.10	mg/L	
Copper	< 0.05	1.3	mg/L	
Fluoride	< 0.20	2.00	mg/L	
Iron	< 0.10	0.30	mg/L	
Lead	< 0.005	0.015	mg/L	
Magnesium	2		mg/L	
Manganese	0.06	0.05	mg/L	
Mercury	< 0.0005	0.002	mg/L	
Nitrate	< 1.00	10.00	mg/L	
Nitrite	< 0.10	1.00	mg/L	
pH	8.1		N/A	
Selenium	< 0.005	0.05	mg/L	
Silver	< 0.05	0.10	mg/L	
Sodium	20.00		mg/L	
Sulfate	5.60	250	mg/L	
Total Alkalinity	81		mg/L	
Total Hardness	43		mg/L	
Zinc	< 0.05	5.00	mg/L	

Report Date: 09/23/2011

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: Harrett Name: Mangum Sample Id Number: 30001
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
<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

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.