



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.state.nc.us>
Phone: 919-733-7834
Fax: 919-733-8695

Report To: BRYAN McSWAIN

Name of System:

HARNETT CO ENVIRONMENTAL HEALTH

MARCUS & SUSAN ALKIRE

307 CORNELIUS HARNETT BLVD
LILLINGTON, NC 27546

Courier # 14-73-01

161 TALBERT DR
HOLLY SPRINGS, NC 27540

StarLiMS ID: ES042710-0019001
Inorganic ID:

Date Collected: 04/26/10
Date Received: 04/27/10

Time Collected: 1:51 PM
Collected By: Bryan McSwain

Sample Type:
Sample Source: New Well

Sampling Point: Spigot @ well
Temp. at Receipt: 6.0

Well Permit #: 09-5-22648
GPS #:

Sample Description:
Comment:

New Well (Profile)

Analyte	Result	Allowable Limit	Unit	Qualifier(s)
Total Alkalinity	88		mg/L	
Arsenic	< 0.005	0.010	mg/L	
Copper	< 0.05	1.3	mg/L	
Lead	< 0.005	0.015	mg/L	
Manganese	0.25	0.05	mg/L	
Zinc	< 0.05	5.00	mg/L	
Barium	< 0.1	2.00	mg/L	
Cadmium	< 0.001	0.005	mg/L	
Chromium	< 0.01	0.10	mg/L	
Silver	< 0.05	0.10	mg/L	
Selenium	< 0.005	0.05	mg/L	
Iron	0.18	0.30	mg/L	
Mercury	< 0.0005	0.002	mg/L	
Fluoride	< 0.20	2.00	mg/L	
Nitrate	< 1.00	10.00	mg/L	
Nitrite	< 0.10	1.00	mg/L	
Chloride	< 5.00	250	mg/L	
Sulfate	6.50	250	mg/L	
pH	7.9		N/A	
Sodium	8.20		mg/L	
Calcium	21		mg/L	
Magnesium	3		mg/L	
Total Hardness	66		mg/L	

Report Date: 05/07/2010

Reported By: Debbie Moncol

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: Alkire Sample Id Number: 1900
Location: _____ Reviewer KMK

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 man-made sources. (These recommendations are based on inorganic chemical analysis only.)

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 or 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
<u>Manganese</u>	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. Contact your local health department for re-sampling assistance.

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.

Contact your local health department for more information or go to <http://www.epi.state.nc/epi/oil/hsfactsheet.html>