

North Carolina State Laboratory of Public Health

Environmental Sciences

Inorganic Chemistry

Certificate of Analysis

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BRYAN McSWAIN Report To:

Name of System:

HARNETT CO ENVIRONMENTAL HEALTH

HARLOD JERNIGAN

307 CORNELIUS HARNETT BLVD

LILLINGTON, NC 27546

Courier # 14-73-01

91 HELEN LN **DUNN, NC 28334**

StarLiMS ID:

ES010710-0011001

Time Collected: 2:00 PM

Inorganic ID:

Date Collected: 01/06/10 Date Received: 01/07/10

Collected By:

Bryan McSwain

Sample Type:

Sampling Point:

Spigot @ well

Well Permit #:

09-5-23241

Sample Source: New Well

Temp. at Receipt: 2.0

GPS #:

Sample Description:

Comment:

New Well (Profile)

Analyte	Result	Allowable Limit	Unit	Qualifier(s)
Total Alkalinity	84		mg/L	
Arsenic	< 0.005	0.010	mg/L	
Copper	< 0.05	1.3	mg/L	
Lead	< 0.005	0.015	mg/L	
Manganese	0.23	0.05	mg/L	
Zinc	< 0.05	5.00	mg/L	
Barium	0.2	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	0.005	mg/L	
Iron	1.10	0.30	mg/L	
Mercury	< 0.0005	0.002	mg/L	
Fluoride	0.24	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	9.20	250	mg/L	
pH	6.9		N/A	
Sodium	15.00		mg/L	
Calcium	9		mg/L	
Magnesium	7		mg/L	
Total Hardness	50		mg/L	

Report Date: 01/28/2010

Reported By: Debbie Moncol

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	pН	Not less than 6.5 units
		Zinc	5.0 mg/l

FEB - 2 2010

North Carolina Division of Public Health

Occupational and Environmental Epidemiology Branch, Epidemiology Section

INORGANIC CHEMICAL ANALYSIS REPORT

Private well water information and recommendations

Coun	ty:	*	Harnet	Name:	Terni	pan	Samnle	Id Numb	er: _//06/
			h.i.	1 1000101	5				51. <u>//</u>
Locat	ion:			·		Rev	iewer	14nR	
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.								
/		Bariun Manga	The second secon	The same of the sa	m Fluorid Sodium	The state of the s	Maga pH	nesium	
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
Mangar	nese	Mercury	Nitrate/Nitrite	Selenium	Silver	Sodium	Zinc	pН	
Re-sampling is recommended inmonths. 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									
Sample									

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

your well, or after a flooding event. Contact your local health department for sampling instructions.

your well water when there is a known problem or contamination in your area, after repairs or replacement of